

**NBC2: BLOCKCHAIN-BASED NBC 461 PORTFOLIO OPTIMIZATION  
DATABASE MANAGEMENT SYSTEM USING OPTICAL CHARACTER  
RECOGNITION AND MACHINE LEARNING**

A Project Study Presented to the Faculty of

Electronics Engineering Department

College of Engineering

Technological University of the Philippines

In Partial Fulfilment of the Course Requirements for the Degree of

**Bachelor of Science in Electronics Engineering**

**Submitted by:**

Batan, Caroline D.

Ignacio, Adrian Rafael

Mamayog, Janissah J.

Paulino, Chyna A.

Tia, Kristine Anne M.

**Adviser:**

Engr. Cherry G. Pascion

**September 2022**

## APPROVAL SHEET

This project entitled "**NBC2: BLOCKCHAIN-BASED NBC 461 PORTFOLIO OPTIMIZATION DATABASE MANAGEMENT SYSTEM USING OPTICAL CHARACTER RECOGNITION AND MACHINE LEARNING**" has been approved and submitted by the following proponents:

Batan, Caroline D.

Paulino, Chyna A.

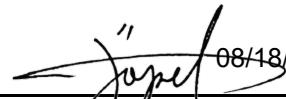
Ignacio, Adrian Rafael

Tia, Kristine Anne M.

Mamayog, Janissah J.

In partial fulfillment of the requirements for the degree of **Bachelor of Science in Electronics Engineering** is hereby recommended for approval:

  
**ENGR. CHERRY G. PASCIÓN**  
Project Adviser

  
08/18/2022  
**ENGR. JOHN PETER M. RAMOS**  
Panel Member

  
**ENGR. EDMUND G. MONILAR**  
Panel Member

  
08/18/2022  
**ENGR. LEJAN ALFRED C. ENRIQUEZ**  
Panel Member

  
**ENGR. GILFRED ALLEN M. MADRIGAL**  
Panel Member

  
08/18/2022  
**ENGR. ROMEO L. JORDA, JR.**  
Panel Member

Accepted and approved in partial fulfillment of the course requirements for the degree of **Bachelor of Science in Electronics Engineering**.

**ENGR. TIMOTHY M. AMADO**  
Head, ECE Department

**ENGR. NILO M. ARAGO**  
Dean, College of Engineering

## **ACKNOWLEDGEMENT**

The completion of this paper could not have been possible without the participation and assistance of so many people whose names may not all be enumerated. Their contributions are sincerely appreciated and gratefully acknowledged. However, the researchers would like to express their deep appreciation and indebtedness particularly to the following:

To their Project Study Adviser, Engr. Cherry G. Pascion, who willingly and patiently extended her consistent assistance and guidance that helped them seize the opportunity to improve their skills and devote their time and effort to make this study as efficient and dependable as possible.

To their Project Study Professor and Dean of College of Engineering, Engr. Nilo M. Arago, who constantly imparted his unswerving support and immense knowledge that maintained the invariable progress of their project study for three terms.

To the Head of Electronics Engineering Department, Engr. Timothy M. Amado, along with Engr. Arago, who accommodated them during their project deployment in TUP-Manila and volunteered to test the functionality of the kiosk.

To all departments under the College of Engineering, who generously participated and provided their cooperation in the collection of documents, data gathering, and technical evaluation. The researchers could not have imagined making this study possible and workable without them taking part.

To the interviewees, Ms. Melbern Rose Maltezo, Ms. Vhie Laurio, Engr. Jessica S. Velasco, Engr. August Thio-ac, along with Engr. Amado, who extended their knowledge by accommodating all the queries concerning NBC 461.

To the previous researchers of NBC 461 and Smart EDSS, who earnestly shared their experience and knowledge on the technical aspects and programming elements of the project study. They were also of great help in establishing the current project's Blockchain technology.

To their beloved family, who gave them never-ending support and provided them financial assistance without hesitations, and friends, with their persistent encouragement and words of relief, and being their benevolent peers to rely on.

Finally, and most importantly, to our God Almighty, for the wisdom. He bestowed upon them, for answering their prayers, for the strength, peace of mind, and good health along with this chapter of their lives.

The researchers would like to offer regards and blessings to all those people who have supported them since the beginning of this journey. Everything would not be possible without them and their endless moral support.

## **The Researchers**

## **ABSTRACT**

The technical description of a professor following NBC 461 is the highest academic rank a faculty member in State Universities and Colleges (SUCs) could achieve and should have at least 159 CCE points. The current promotion scheme of faculty members is a mass promotion in which faculty members in SUCs can comply with the requirements and be promoted during and within the promotion cycle. The aim of this study is to develop a blockchain-based technology that will automate the NBC 461-CCE point system using machine learning, optical character recognition (OCR), and natural language processing (NLP). Additionally, a kiosk wherein the faculty member can scan their hardcopy documents as well as print their results, was constructed. The web-based application developed used programming languages including PHP, HTML/CSS, and Javascript, and MySQL for database management system. Meanwhile, the classification program utilized Java programming language and Javascript (node.js) for the NEM Blockchain Apostille Service program. The technology developed has an accuracy of 88.2% for classifying the documents to their corresponding main categories, 81.5% for determining the status, and 70.9% for classifying to their corresponding subcategories. The system was also able to generate a detailed summary of points results that is notarized by NEM Blockchain Apostille service which provides a notary transaction hash key included in the NEM certificate.

## TABLE OF CONTENTS

	Page
Title Page .....	i
Approval Sheet .....	ii
Acknowledgement .....	iii
Abstract .....	v
Table of Contents .....	vi
List of Tables .....	xiii
List of Figures .....	xiv
<b>1.1 Background of the Study .....</b>	<b>1</b>
<b>1.2 Statement of the Problem .....</b>	<b>3</b>
<b>1.3 Objectives.....</b>	<b>4</b>
1.3.1 General Objective .....	4
1.3.2 Specific Objectives .....	4
<b>1.4 Significance of the Study .....</b>	<b>5</b>
<b>1.5 Scope and Limitations .....</b>	<b>6</b>
<b>1.6 Definition of Terms .....</b>	<b>6</b>
<b>2.1 Conceptual Literature .....</b>	<b>8</b>
2.1.1 Scanner.....	8
2.1.1.1 Types of Scanners .....	8
2.1.2 Monitor .....	10
2.1.2.1 Touch Screen Monitor .....	10
2.1.3 System Unit.....	11
2.1.4 USB Hub.....	11
2.1.5 AVR .....	12
2.1.6 Wi-Fi Dongle .....	12
2.1.7 Cloud Storage.....	13

2.1.7.1 Public Cloud Storage .....	13
2.1.7.2 Private Cloud Storage .....	13
2.1.7.3 Hybrid Cloud Storage .....	14
2.1.8 Web Application .....	14
2.1.9 HTML (HyperText Markup Language).....	14
2.1.10 CSS (Cascading Style Sheets).....	14
2.1.11 Javascript .....	15
2.1.12 PHP (Hypertext Preprocessor).....	15
2.1.13 MySQL .....	15
2.1.14 Java Programming .....	15
2.1.15 Database Management System .....	16
2.1.16 Image Pre-processing Techniques .....	16
2.1.17 Optical Character Recognition.....	16
2.1.17.1 Tesseract OCR.....	17
2.1.18 Machine Learning .....	17
2.1.18.1 Supervised Learning .....	17
2.1.18.2 Unsupervised Learning .....	18
2.1.18.3 Reinforcement Learning .....	18
2.1.19 Sampling Techniques.....	18
2.1.20 Natural Language Processing .....	19
2.1.20.1 Semantic Analysis.....	19
2.1.20.2 Syntactic Analysis.....	20
2.1.21 Blockchain .....	20
2.1.21.1 Public Blockchain .....	20
2.1.21.2 Private Blockchain .....	21
2.1.21.3 Consortium Blockchain .....	22
2.1.21.4 Hybrid Blockchain .....	22
2.1.22 NEM Blockchain .....	23
<b>2.2 Related Studies .....</b>	<b>24</b>
2.2.1 Database Management System .....	24
2.2.1.1 Lore: A Database Management System for Semi Structured Data.....	24
2.2.1.2 Transaction Management in the R* Distributed Database Management System.....	24

2.2.1.3 Application Development for Searching Drugs Information.....	24
2.2.1.4 One approach for full-text search of files in MongoDB based systems	25
2.2.1.5 Performance Evaluation of Query Response Time in The Document Stored NoSQL Database .....	25
2.2.1.6 A University Fixed Asset Database Information Management System Based on Internet of Things.....	25
2.2.1.7 Database programming using Java .....	26
2.2.1.8 An Analysis on Automatic Performance Optimization in Database Management Systems .....	26
2.2.1.9 Extending Document Management Systems with User-Specific Active Properties .....	26
2.2.1.10 Object-oriented database management systems for construction of CASE environments .....	27
2.2.2 Image Pre-processing.....	27
2.2.2.1 Preprocessing Framework for Document Image Analysis .....	27
2.2.2.2 A Document Image Preprocessing System for Keyword Spotting.....	27
2.2.2.3 Enhancement of old images and documents by Digital Image Processing Techniques .....	28
2.2.2.4 Selecting Automatically Pre-processing Methods to Improve OCR Performances .....	28
2.2.2.5 Optical Odia Character Classification using CNN and Transfer Learning: A Deep Learning Approach .....	29
2.2.2.6 The OCropus Open-Source OCR System.....	29
2.2.2.7 Image Preprocessing for Improving OCR Accuracy .....	29
2.2.2.8 A Segmentation-Free Approach for Keyword Search in Historical Typewritten Documents.....	30
2.2.2.9 Improving Optical Character Recognition of Finnish Historical Newspapers with a Combination of Fraktur & Antiqua Models and Image Preprocessing .....	30
2.2.2.10 Mobile Application for Recognizing Text in Degraded Document Images Using Optical Character Recognition with Adaptive Document Images Binarization.....	31
2.2.3 Optical Character Recognition.....	31
2.2.3.1 Improving the Accuracy of Tesseract 4.0 OCR Engine Using Convolution Based Preprocessing .....	31
2.2.3.2 Improving the Efficiency of Tesseract OCR Engine .....	32

2.2.3.3 Numerical Simulation Technology Study on Automatic Translation of Foreign Language Images Based on Tesseract-OCR .....	32
2.2.3.4 OCR-Based Electronic Documentation Management System.....	33
2.2.3.5 OCR Service Platform Based on OpenCV .....	33
2.2.3.6 OCR Based Document Archiving and Indexing Using PyTesseract: A Record Management System for DSWD Caraga, Philippines.....	33
2.2.3.7 Course Crediting System using Optical Character Recognition .....	34
2.2.3.8 Course Evaluation Generator (CEG): An Automated Academic Advising System with Optical Character Recognition .....	34
2.2.3.9 Vehicle Plate Monitoring and Information System Using Optical Character Recognition (OC) Technique .....	35
2.2.3.10 Optical Character Recognition for Expiration Dates Validation .....	35
2.2.3.11 Digitally encoded seal for document verification .....	36
2.2.3.12 OCR technology-based text automatic generation method and device, equipment and medium.....	36
<b>2.2.4 Machine Learning .....</b>	<b>37</b>
2.2.4.1 Classifying receipts or invoices from images based on text extraction .	37
2.2.4.2 Text and Image Based Spam Email Classification using KNN, Naïve Bayes, and Reverse DBSCAN Algorithm .....	37
2.2.4.3 India Language Text Representation and Categorization using Supervised Learning Algorithm.....	37
2.2.4.4 Multi-Class Classification of Turkish Texts with Machine Learning Algorithms .....	38
2.2.4.5 Machine Learning-based Approaches for detecting COVID-19 using Clinical Text Data .....	38
2.2.4.6 Heart Diseases Detection Using Naïve Bayes Algorithm.....	39
2.2.4.7 Meme Opinion Categorization by Using Optical Character Recognition and Naïve Bayes Algorithm.....	39
2.2.4.8 Optimization of Text Classification using Supervised and Unsupervised Learning Approach .....	40
2.2.4.9 Document Classification of Accreditation Documents Using Machine Learning Algorithm .....	40
2.2.4.10 A Proposed Arabic Text and Text Image Classification Technique using a URL Address.....	40
<b>2.2.5 Web-based Application.....</b>	<b>41</b>
2.2.5.1 Development of a Web-based Recommendation System for Filipino STEAM Educators .....	41

2.2.5.2 Development of File Management System for ECE Accreditation .....	41
2.2.5.3 Web-Based Academic Information System.....	42
2.2.5.4 Web-Based Recommendation System for Smart Tourism: Multiagent Technology .....	42
2.2.5 Blockchain .....	42
2.2.5.1 Blockchain-Based Smart Employment Decision Support System.....	42
2.2.5.2 Development of a Secure and Private Electronic Procurement System based on Blockchain Implementation .....	43
2.2.5.3 How to Use Blockchain for Diabetes Health Care Data and Access Management: An Operational Concept .....	43
2.2.5.4 A Blockchain-Based Framework for Secure Log Storage .....	43
2.2.5.5 Modified SHA256 for Securing Online Transactions based on Blockchain Mechanism.....	44
2.2.5.6 Crypto Pharmacy – Digital Medicine: A Mobile Application Integrated with Hybrid Blockchain to Tackle the Issues in Pharma Supply Chain .....	44
2.2.5.7 Blockchain-based Notarization for Social Media .....	45
2.2.5.8 Access Control for Electronic Health Records with Hybrid Blockchain-Edge Architecture .....	45
2.2.5.9 Video streaming system based on Internet of media things and blockchain.....	46
2.2.5.10 Blockchain as a Notarization Service for Data Sharing with Personal Data Store .....	46
<b>3.1 Theoretical Framework .....</b>	<b>47</b>
<b>3.2 Conceptual Framework .....</b>	<b>49</b>
3.2.1 Block Diagram of Blockchain-based NBC 461 Database Management System...	50
3.2.2 System Architecture.....	51
<b>3.3 Research Locale.....</b>	<b>52</b>
<b>3.4 Research Design .....</b>	<b>53</b>
<b>3.5 Project Development.....</b>	<b>54</b>
3.5.1 Hardware Design .....	54
3.5.1.2 Hardware Setup.....	56
3.5.2 Software Design.....	59
3.5.2.1 Machine Learning .....	59

3.5.2.1.a Dataset.....	59
3.5.2.1.b Techniques .....	59
3.5.2.1.c Evaluation Measure.....	60
3.5.2.2 Text extraction .....	62
3.5.2.2.a Tesseract OCR .....	62
3.5.2.2.b Natural Language Processing .....	62
3.5.2.3 Web-based Application.....	62
3.5.2.4 Blockchain .....	63
3.5.2.4.a Nano Wallet .....	63
3.5.2.4.b NEM Apostille.....	63
3.5.3 Software Flowchart.....	64
3.5.4 Simplified Block Diagram of the Classification System .....	66
<b>3.6 PASUC Common Criteria for Evaluation (CCE) Point System.....</b>	<b>67</b>
3.6.1 Major Factors and Maximum Points.....	67
3.6.2 Specific Factors and Guidelines for Determining Credits Points Under the Common Criteria for Evaluation .....	67
3.6.3 Point Allocation Under NBC No. 461 .....	76
<b>3.7 Technical Evaluation .....</b>	<b>77</b>
<b>3.8 GANTT Chart .....</b>	<b>80</b>
<b>3.9 Bill of Materials .....</b>	<b>81</b>
<b>4.1 Project Technical Description.....</b>	<b>83</b>
<b>4.2 Project Structural Organizational.....</b>	<b>84</b>
4.2.1 Hardware (Kiosk).....	84
4.2.2 Software (Web Application) .....	86
4.2.3 College of Engineering Faculty Office .....	112
4.2.4 Machine Learning Model.....	115
4.2.4.a Collected Documents .....	115
4.2.4.b Dataset Sampling Techniques.....	116
4.2.4.c Machine Learning using Weka in Java .....	117
<b>4.3 Experimental Results and Data Analysis .....</b>	<b>122</b>

4.3.1 File Categorization Result.....	122
4.3.2 System Duration Result .....	127
<b>4.4 Project Evaluation.....</b>	<b>129</b>
4.4.1 Technical Evaluation Result .....	129
<b>5.1 Summary of Findings.....</b>	<b>135</b>
<b>5.2 Conclusion.....</b>	<b>136</b>
<b>5.3 Recommendations .....</b>	<b>137</b>
<b>REFERENCES: .....</b>	<b>139</b>

**APPENDIX A**

**APPENDIX B**

**APPENDIX C**

**APPENDIX D**

**APPENDIX E**

**APPENDIX F**

## LIST OF TABLES

Table No.	Title	Page
Table 3.1 CCE Major Factors and Maximum Points.....		67
Table 3.2 The PASUC CCE Guidelines.....		67
Table 3.3 Point Allocation Under NBC No. 461.....		76
Table 3.4 Sample of the Technical Evaluation Form.....		77
Table 3.5 GANTT Chart.....		80
Table 3.6 Hardware Expenses (Kiosk).....		81
Table 3.7 Software Services Expenses (Web-based Application).....		81
Table 3.8 Miscellaneous Expenses.....		82
Table 3.9 Total Expenditure of the Project.....		82
Table 4.1. Documents Collected from TUP-College of Engineering.....		115
Table 4.2. Combined Sampling Techniques.....		116
Table 4.3 Summary of results.....		122
Table 4.4 Confusion Matrix for Category of Documents.....		122
Table 4.5 Summary of Results for Performance Metrics.....		123
Table 4.6 Confusion Matrix for Status of Document.....		123
Table 4.7 Summary of Results for Performance Metrics.....		123
Table 4.8 Confusion Matrix for Subcategory of Documents.....		124
Table 4.9 Summary of Results for Performance Metrics.....		125
Table 4.10 Results of Different Parameters of the Uploaded Documents.....		125
Table 4.11 System and Manual Allocation of Points Duration.....		127
Table 4.12 Frequency Count for Functional Suitability and Performance.....		130
Table 4.13 Frequency Count for Usability and Aesthetics.....		131
Table 4.14 Frequency Count for Security and Portability of the System.....		133

## LIST OF FIGURES

<b>Figure No.</b>	<b>Title</b>	<b>Page</b>
Figure 2.1 Flatbed Scanner.....		8
Figure 2.2 Sheetfed Scanner.....		9
Figure 2.3 Handheld Scanner.....		9
Figure 2.4 Drum Scanner.....		10
Figure 2.5 Monitor.....		10
Figure 2.6 Touch Screen Monitor.....		11
Figure 2.7 System Unit.....		11
Figure 2.8 USB Hub with multiple connectors.....		12
Figure 2.9 AVR.....		12
Figure 2.10 Wi-Fi Dongle.....		12
Figure 3.1 Theoretical Framework of the Study.....		47
Figure 3.2 Input-Process-Output (IPO) Model of the Study.....		49
Figure 3.3 Block Diagram of the Proposed System.....		50
Figure 3.4 System Architecture.....		51
Figure 3.5 Research Process Flow Chart.....		53
Figure 3.6 Kiosk design.....		54
Figure 3.6.1 Kiosk Dimensions.....		54
Figure 3.6.2 Kiosk Inner Dimensions.....		55
Figure 3.6.3 Kiosk Rear Dimensions.....		55
Figure 3.6.4 Kiosk Parts Label.....		56
Figure 3.7 Fortress F160TM Touchscreen Monitor.....		57
Figure 3.8 CanoScan LiDE 300 Flatbed Scanner.....		57
Figure 3.9 Canon MG2540S 3-in-1 Printer.....		57
Figure 3.10 System Unit.....		58
Figure 3.11 Automatic Voltage Regulator.....		58
Figure 3.12 Wi-Fi Dongle.....		58

Figure 3.13 3-Port USB Hub.....	59
Figure 3.14 Software Flowchart of the Proposed System.....	64
Figure 3.15 Simplified Block Diagram of the Classification System.....	66
Figure 4.1 Constructed Kiosk – Front.....	85
Figure 4.2 Constructed Kiosk – Side.....	85
Figure 4.3 Constructed Kiosk – Rear.....	86
Figure 4.4 Home Page of the Web Application.....	86
Figure 4.5 About Page of the Web Application.....	87
Figure 4.6 Guide Page of the Web Application.....	87
Figure 4.7 Registration Page of the Web Application.....	87
Figure 4.8 Flowchart for Creating an Account.....	88
Figure 4.9 Login Page of the Web Application.....	89
Figure 4.10 Flowchart for User Login.....	89
Figure 4.11 User Home Page of the Web Application.....	90
Figure 4.12 Import PDF Page of the Web Application.....	90
Figure 4.13 Flowchart for Importing PDF.....	91
Figure 4.14 Employee Credit View Page of the Web Application.....	92
Figure 4.15 Screenshot of Training Available Modal.....	92
Figure 4.16 Screenshot of Downloaded Compilation of Results Zip File.....	92
Figure 4.17 Screenshot of Detailed Summary PDF File.....	93
Figure 4.18 Screenshot of NEM Apostille Notarization Certificate PDF File.....	94
Figure 4.19 Screenshot of Detailed Summary Result Print Page.....	95
Figure 4.20 Screenshot of Recommendation of Area Lacking Points Print Page.....	95
Figure 4.21 Files Archive Page of the Web Application.....	95
Figure 4.22 Audit Page of the Web Application.....	96
Figure 4.23 Flowchart for Audit Page.....	96
Figure 4.24 User Profile Page of the Web Application.....	97
Figure 4.25 Flowchart for Updating/Changing User Details.....	98
Figure 4.26 User/Faculty Member Frequently Asked Questions (FAQs) Page of the Web Application.....	99

Figure 4.27 Admin Login Page of the Web Application.....	99
Figure 4.28 Flowchart for Admin Login.....	100
Figure 4.29 Admin Home Page of the Web Application.....	101
Figure 4.30 Training View Page of the Web Application.....	101
Figure 4.31 Screenshot of Adding an Available Training.....	101
Figure 4.32 Screenshot of Editing/Updating a Training.....	102
Figure 4.33 Users View Page of the Web Application.....	102
Figure 4.34 Screenshot of Deleting a User/s.....	102
Figure 4.35 Flowchart for Deleting a User/s.....	103
Figure 4.36 Screenshot of Adding a User/s.....	104
Figure 4.37 Screenshot of Sending an Invitation Email.....	104
Figure 4.38 Flowchart for Sending an Invitation Email.....	105
Figure 4.39 Screenshot of an Invitation Email.....	106
Figure 4.40 Pending Files Section Page of the Web Application.....	106
Figure 4.41 Screenshot of View and Edit Modal Window.....	106
Figure 4.42 Flowchart for Allocating Points and Classifying the Category of a Pending File.....	107
Figure 4.43 Screenshot of Decline Modal Window.....	108
Figure 4.44 Admin Profile Page of the Web Application.....	108
Figure 4.45 Admin Frequently Asked Questions (FAQs) Page of the Web Application.....	108
Figure 4.46 Forgot Password Page of the Web Application.....	109
Figure 4.47 Flowchart for Sending Reset Password Request Email.....	109
Figure 4.48 Screenshot of a Reset Password Request Email.....	110
Figure 4.49 Reset Password Page of the Web Application.....	110
Figure 4.50 Flowchart for Resetting Password.....	111
Figure 4.51 Setting up the kiosk inside the faculty office.....	112
Figure 4.52 Setting up desktop UI for ease of accessibility.....	113
Figure 4.53 Walk-through with the department head of the web application's UI and assisting in uploading the documents.....	113

Figure 4.54 Printing of notarized detailed summary of points.....	114
Figure 4.55 (a) Summary of 10-fold cross-validation results on the training set; (b) Detailed accuracy by class.....	117
Figure 4.56 Confusion matrix for 10-fold cross-validation on the training set.....	118
Figure 4.57 (a) Summary of evaluation results on the training set; (b) Detailed accuracy by class.....	118
Figure 4.58 Confusion matrix for the training set.....	119
Figure 4.59 (a) Summary of evaluation results on the testing set; (b) Detailed accuracy by class.....	120
Figure 4.60 Confusion matrix for the testing set.....	121
Figure 4.61 Summary of Correct vs. Wrong Evaluation of the Documents.....	126
Figure 4.62 Comparison Between System and Manual Allocation of Points.....	128
Figure 4.63 Frequency Count for Functional Suitability and Performance Efficiency.....	130
Figure 4.64 Frequency Count for Usability and Aesthetics.....	132
Figure 4.65 Frequency Count for Security and Portability of the System.....	133

## **CHAPTER ONE**

### **INTRODUCTION**

#### **1.1 Background of the Study**

Philippine Association of State Universities and Colleges (PASUC) began deliberating as early as 1982 on a scheme of promoting faculty members that are highly qualified and deserving to an appropriate rank or position. It is done through a process of objective evaluation to have uniform criteria or standards that will be regulated in State Universities and Colleges (SUC). In 1985, after several discussions with the Department of Budget and Management (DBM), a Common Criteria for Evaluation (CCE) for all programs and disciplines was implemented and adopted under National Compensation Circular No. 33 (NCC 33). It was followed by NCC No. 68 and NCC No. 69 that amended the previous versions. All of these compensation schemes only covered faculty positions in SUCs. In 1998, National Budget Circular No. 461 (NBC 461) replaced NCC No. 69 and covered not only SUCs but also CHED-supervised Higher Education Institutions (HEIs) and TESDA-supervised Technical Education Institutions (TEIs). [1][2]

The current promotion scheme of faculty members in SUCs is based on NBC No. 461 and its mode for promotion scheme is a mass promotion in which faculty members in SUCs can comply with the requirements and be promoted during and within the promotion cycle [3]. The NBC 461 cycle changes every after three years and the evaluation started in the year 1999.

A professor is a term used to address a person who is teaching in College or University. However, not all faculty members in higher education institutions can be called “professors” even with their educational attainments. The technical description of

a professor following NBC 461 is the highest academic rank a faculty member in State Universities and Colleges (SUCs) could achieve and should have at least 159 CCE points [4]. As issued by the Department of Budget and Management, NBC 461 sets the latest guidelines in the promotion and standardization of salaries of faculty and administrators following the modified CCE. CCE is a principal guide that will help determine the rank of a faculty member through their accumulated points. The CCE is a set of factors consisting of three components - Educational Qualification, Experience and Length of Service, and Professional Development Achievement and Honors - which establishes the relative performance of a faculty member at the institution for the period of evaluation by applying a point system to determine faculty rank and sub-rank. Meanwhile, Qualitative Contribution Evaluation (QCE) is a validating factor of CCE which determines the eligibility of a faculty candidate for the specified rank and sub-rank based on the result of the application of the CCE [5]. And, all faculty members are entitled to be promoted for a position title from Instructor to Professor as long as they obtained the points required under NBC No. 461.

In submitting the accumulated documents of a faculty member, they need to have two certified true copies of each document as processed by their respective College or University. The local evaluator, who approves the documents, and the zonal evaluator who verifies them, will receive the said files accumulated by the faculty member. The system will then allocate points but does not have a detailed summary. It is where the study comes in - with the help of this technology, the faculty members can easily submit their documents and know their current standing according to their CCE result. It will also help the keepsake of their collected documents that can be used in the succeeding cycles.

The system developed can scan, sort, store, and save documents to its database and allocate points. The incorporated image pre-processing techniques before Optical Character Recognition (OCR) enhanced the performance and improved the accuracy of the OCR. Using OCR, the system can recognize the contents of the documents by digitizing the scanned hardcopy of the document. The documents were sorted to their corresponding category and were awarded points. After sorting the documents, a summary of points was produced that presents the garnered points of the faculty member. In addition, the NEM Blockchain Apostille service was integrated in this part to ensure the authenticity, security, and integrity of the results from the system. The user has an option to print the summary of their points together with a certificate from the NEM Apostille service that contains a notary transaction hash key that will be used to verify the Apostille's validity. Recommendations to the categories that lack points were also provided to the user.

## **1.2 Statement of the Problem**

Each NBC 461 cycle is delayed for a few years. Hence, the documents to be submitted for evaluation are those issued for the past three to six years from the current year. The collection and safekeeping of the documents needed for evaluation are one of the challenges faced by a faculty member who desires promotion per NBC 461. The documents are usually kept in a folder or envelope while waiting for the cycle applicable for evaluation. It is also necessary and convenient for the faculty candidate to immediately know their rank and sub-rank indicated by their CCE result. The faculty member needs to keep track of their points and the categories or areas they lack points to motivate them to acquire more points and achieve a higher academic rank. Also, the current system does

not generate a detailed summary of points for every evaluation. On the other hand, having the process of allocating points to their co-faculty's documents, will reduce the workload of the local evaluators or the department heads.

The purpose of this research is to develop a technology that can provide solutions to the stated problems. A kiosk that can scan, store, save and sort documents to their respective category will be developed. The limitations of the previous research study were considered to improve the features of this technology. Also, the integration of Blockchain technology into the system will ensure the security, authenticity, and integrity of the result.

### **1.3 Objectives**

#### **1.3.1 General Objective**

The research aims to create a Blockchain-based NBC Portfolio Optimization Database Management System using Optical Character Recognition and Machine Learning.

#### **1.3.2 Specific Objectives**

1. To construct a kiosk consisting of a desktop computer with a touchscreen monitor, printer, and scanner. Also, to develop a web-based application that will serve as the user interface and be hosted on a cloud computing platform with cloud storage and database.
2. To develop a program that is capable of performing image pre-processing techniques on the scanned documents prior to Optical Character Recognition, natural language processing techniques, and a sorting system using machine learning algorithm.

3. To develop an authentic and secured summary of points with the use of NEM Blockchain Apostille service.
4. To test and evaluate the technology developed according to ISO/IEC 25010 standard.

#### **1.4 Significance of the Study**

This study would be beneficial to faculty members that are covered in NBC No. 461 such as those who are in State Colleges and Universities (SUCs), CHED-supervised Higher Education Institutions (HEIs), and TESDA-supervised Technical Education Institutions (TEIs). The technology will address some of the concerns and challenges they may encounter regarding the safekeeping of documents, detailed summary of points, track current standing, and portfolio optimization.

With the help of this technology, it will aid the faculty member with a detailed summary of points where they can know the allocated points for a specific component. The recommendation system will help them see the areas where they lack points and provide assistance that will help to improve or optimize their portfolio. The technology will help them to monitor their points and their current standing conveniently. They can store their documents in the database that can be accessed using electronic devices such as desktop computers, laptops, and mobile phones connected to the Internet, and sort them according to their respective category. Storing the documents in the system will avoid loss or damage and will ensure that the documents are kept safe.

This technology will help lessen the work of the local evaluators. It will do the evaluation and allocation of points and generate a form with the raw and equivalent points

of the faculty members. The form generated shall be submitted to the zonal center's review committee to verify and validate the documents.

### **1.5 Scope and Limitations**

The focus of the study was the development of an NBC 461 portfolio optimization database management system integrated with Blockchain technology, utilizing NEM Blockchain's Apostille service. The image pre-processing methods used were image binarization and image rescaling. The storing of files or documents to the cloud storage can only happen when connected to the Internet. The user can upload documents in portrait and landscape orientation provided that the text is in readable orientation.

The system accepts the uploaded documents and was not able to detect if there were duplicates, and if it is forged. Another limitation is that the technology is not capable of simultaneous upload of documents by users who are accessing the web application remotely. Only the person who uploads the most recent document will be granted points.

The technology was deployed in the College of Engineering Faculty Office, where faculty members of all departments under the stated college have easy access to the kiosk. It can only evaluate the documents of the faculty members according to the CCE pointing system which is done by the local evaluators or the department heads.

### **1.6 Definition of Terms**

**Kiosk** – a small physical structure that has an input and output device. The input device is the laptop where it provides information to the user, and the output device is the printer scanner for the printed documents.

**NEM Blockchain** – a blockchain technology that will secure and ensure the authenticity of the summary of points of the inserted documents.

**Apostille** – a notarization service used together with NEM blockchain to notarize the summary of points.

**NBC 461** – sets the guidelines for the standardization and promotion of the faculty member on State Universities and Colleges (SUCs) to increase their salaries and monitor their ranks.

**Optical Character Recognition** – a technology used to convert the scanned document into printed text readable by the computer.

**Database Management System** – a system software used for the management and storage of data. The user information, keywords, scanned documents, and accumulated credit points are stored here. It lets the user manipulate and retrieve the stored data in the database.

**Image pre-processing** – operations applied on images that aim to improve the quality of the scanned image by removing unwanted distortions or enhancing the features of the image.

## **CHAPTER TWO**

### **REVIEW OF RELATED LITERATURE AND STUDIES**

#### **2.1 Conceptual Literature**

##### **2.1.1 Scanner**

A scanner is an electronic input device connected to a computer. It converts any physical items or hardcopy of files like documents into digital format by reading or scanning. After conversion, the file can be stored on the computer. The file in digital format can be viewed or edited by using software applications. [6]

###### **2.1.1.1 Types of Scanners**

There are different types of scanners depending on the users' needs that can maximize the advantages of the scanner. The first example is the flatbed scanner which is the most used optical scanner by people. It works like a photocopier. It produces a digital form of any scanned documents or images and can be saved on the computer. The scanner has a cover that needs to be open, places the physical item to be scanned on the glass scanner then closes the cover to start the scanning. [7]



**Figure 2.1 Flatbed Scanner**

(<https://image.shutterstock.com/image-illustration/modern-scanner-isolated-on-white-260nw-1402233032.jpg>)

Unlike the flatbed scanner, a sheetfed scanner works like a fax machine. It is used for a loose sheet of paper that does not fit in size. The paper is fed into the scanner to scan it. It is small and takes little space. It cannot scan papers that are bound. [7]



**Figure 2.2 Sheetfed Scanner**

(<https://5.imimg.com/data5/JI/BD/MY-7550015/hp-scanjet-7000-s2-sheet-feed-scanner-500x500.jpg>)

The handheld scanner is small, cordless, and portable. It is used by moving it over the document needed to scan. Its quality is lower than any type of scanner. Its main advantage is its portability, where it can be brought anywhere. It has a memory card where the digital files are stored. [7]



**Figure 2.3 Handheld Scanner**

(<https://i.ytimg.com/vi/q1VrGL29HF8/maxresdefault.jpg>)

Drum scanners are used by publishers because they can capture complete details of an image. The document to be scanned is mounted on

a glass cylinder. The center of the cylinder contains a sensor that splits light bounced from the document into three beams. [7]



**Figure 2.4 Drum Scanner**

(<https://techgearoid.com/wp-content/uploads/2019/05/what-is-drum-scanner-1.jpg>)

### **2.1.2 Monitor**

Monitor, also known as a screen or a visual display unit, is an output device that displays images, text, and videos. It is made up of a screen, circuitry, power supply, buttons for screen setting, and the casing to encase all those components. [8]



**Figure 2.5 Monitor**

(<https://www.computerhope.com/cdn/computer-monitor.png>)

#### **2.1.2.1 Touch Screen Monitor**

Touch screen monitor, a display device that allows the user to interact with a computer screen with a touch. It serves as an alternative to a mouse or a keyboard since it is considered as an input/output device. [9]



**Figure 2.6** Touch Screen Monitor

([https://m.mediaamazon.com/images/I/51gsimOH0SL.\\_AC\\_SX679\\_.jpg](https://m.mediaamazon.com/images/I/51gsimOH0SL._AC_SX679_.jpg))

### 2.1.3 System Unit

System Unit, also known as a chassis or a tower, is a part of a computer that contains the primary devices such as motherboard, CPU, RAM, and other components. It is responsible for performing operations and producing results for complex calculations. [10]



**Figure 2.7** System Unit

([https://techterms.com/img/lg/system\\_unit\\_134.jpg](https://techterms.com/img/lg/system_unit_134.jpg))

### 2.1.4 USB Hub

A Universal Serial Bus (USB) hub is a device that expands a single USB port into several USB ports. It enables many devices to be connected to the main system. Some USB hubs provide connection for Ethernet, HDMI, VGA, and many more. [11]



**Figure 2.8** USB Hub with multiple connectors

(<https://www.electronics-notes.com/images/usb-hub-multiconnector-3379.jpg>)

### 2.1.5 AVR

An AVR or Automatic Voltage Regulator is used to regulate the voltage of a device. It controls the voltage of the system as it takes a fluctuating voltage and changes it to a constant voltage. Over voltages are also reduced using an AVR. [12]



**Figure 2.9** AVR

([https://cdn.shopify.com/s/files/1/0101/4864/2879/products/1-d\\_2048x2048.jpg?v=1629537119](https://cdn.shopify.com/s/files/1/0101/4864/2879/products/1-d_2048x2048.jpg?v=1629537119))

### 2.1.6 Wi-Fi Dongle

Wi-Fi dongles are also known as USB wireless adapter or USB Wi-Fi adapter. It is a small hardware device that is plugged into the USB of a computer to connect it to a wireless Internet. It accessed the internet using the same method such as mobile phones through wireless networks. [13]



**Figure 2.10** Wi-Fi Dongle  
([https://cdn.sandberg.world/products/images/lg/133-91\\_lg.jpg](https://cdn.sandberg.world/products/images/lg/133-91_lg.jpg))

### 2.1.7 Cloud Storage

Cloud Storage is a service model that allows data to be transmitted and stored in an off-site location where it is secured, maintained, and made accessible to the user with the use of a network which can either be through the internet or a private connection. It can be used as an alternative to storing files on hard drives since hard drives can only offer limited space for data storage. It is cost-effective and offers elasticity, where the user only pays for the storage capacity that is used. Cloud-based storage is available in public, private, and hybrid clouds. [14]

#### 2.1.7.1 Public Cloud Storage

Public Cloud Storage allows users to connect to the Internet to a storage cloud facilitated by a cloud provider and used by other companies. Providers usually provide services that allow the users to access it using any device such as smartphones and desktops. [14]

#### 2.1.7.2 Private Cloud Storage

Private Cloud Storage offers a replicated cloud model that resides within the user's network. The users can either take full control of a private cloud or engage a provider to customize a private cloud that can be accessed with a private connection. The suitable users for this cloud storage are organizations that may prefer to be in private. Examples of these are banks or retail companies since the data they process, and store are confidential. [14]

### **2.1.7.3 Hybrid Cloud Storage**

Hybrid Cloud Storage is a combination of private and public clouds that allows the organization to choose what type of data is stored in which cloud. For instance, sensitive data is typically more suited to be stored in a private cloud environment, whereas less sensitive data can be stored in a public cloud environment. Some organizations use hybrid cloud storage as additional storage. [14]

### **2.1.8 Web Application**

Web application is defined as applications that can be accessed through web browsers over a network. It is developed using server- and client-side programming languages such as HTML, CSS, and JavaScript. Web-based applications consist of web server, network, HTTP, and browser. Web applications rely on Web browsers for execution and include many applications such as online retail sales, online auctions, and webmail. [15][16]

### **2.1.9 HTML (Hyper Text Markup Language)**

HTML or Hyper Text Markup Language, the standard markup language for creating web pages, consists of a series of elements. HTML elements are considered as the building blocks of the HTML pages, and it is presented by using < > tags. [17]

### **2.1.10 CSS (Cascading Style Sheets)**

CSS or Cascading Style Sheets, the language used to style web pages, describes how HTML elements are displayed. It is used to define the styles in web

pages such as the design, layout, and multiple display variations for different devices with different screen sizes. [18]

### **2.1.11 JavaScript**

JavaScript, the programming language for web pages, can manipulate, calculate, and validate data. It can change the content, attribute values, and styles (CSS) of an HTML. [19]

### **2.1.12 PHP (Hypertext Preprocessor)**

PHP was originally called Personal Home Page, but it was changed into PHP: Hypertext Preprocessor. It is an open-source product and a scripting language designed for the Web. The PHP codes are interpreted at the web server and within an HTML page, it will be executed every time the page is visited. [20]

### **2.1.13 MySQL**

MySQL, a relational database management system, can be used to store, search, store, and retrieve data. It is a multi-user, multi-threaded server as it ensures that multiple users can work effectively. It uses the standard database query language which is SQL (Structured Query Language). [20]

### **2.1.14 Java Programming**

Java programming language is a general-purpose programming language that is widely used for internet-based applications. It is because of its advantages such as being flexible and reusable. Java codes can run on different platforms without any modification. It is used in writing programs for any electronic device, machine learning, and data science. [21]

### **2.1.15 Database Management System**

Database Management Systems is a technology solution for creating and managing a database for an organized approach to the saved data. Any information that is saved in the database may be retrieved. It acts as the way between the user and the database to have a systematic approach when it comes to accessing, creating, and updating information. [22]

### **2.1.16 Image Pre-processing Techniques**

Digital image processing is the use of algorithms to perform image processing on a digital image. Image pre-processing techniques are applied to remove any unwanted or unnecessary features of an image. It can remove any distortions and noise present in the image leaving only the important features of an image. The different image pre-processing techniques are resizing, noise reduction, segmentation, gray scaling, etc. [23]

### **2.1.17 Optical Character Recognition**

Optical Character Recognition is a widely used technology for recognizing the texts from images such as scanned documents and photos using an optical scanner. It may be handwritten or typed. The OCR will convert the scanned data into machine-readable text data. It is mainly used for digitizing data avoiding retying it manually. Aside from that, it can be applied to different applications like data entry automation, indexing documents for search engines, automatic number plate recognition, and assisting blind and visually impaired persons. [24]

### **2.1.17.1 Tesseract OCR**

Tesseract is one of the Optical Character Recognition engines widely used. It is the most popular open-source code OCR engine. It identifies letters, words, or sentences from a scanned file and can recognize more than 100 languages. The best performance of Tesseract OCR can be achieved if the input images must have better quality. TIFF is the most recommended file type before undergoing OCR. After the OCR, information can be extracted and converted to several formats such as TXT and HTML.[25] [26]

### **2.1.18 Machine Learning**

Machine learning is an application of Artificial Intelligence (AI) that allows the system to have the ability to automatically learn and improve from previous experiences without being explicitly programmed to do so. The learning process starts from observations or data such as examples, experiences, and instructions that help the system make improved or better decisions. Machine learning allows the computer to learn automatically without the need for human assistance [27]. Machine learning algorithms can be classified as supervised, unsupervised, or reinforcement learning.

#### **2.1.18.1 Supervised Learning**

Supervised learning trains an algorithm with a set of labeled data. Fully labeled data are those in the training dataset tagged with the answer the algorithm should come up with. Supervised learning is useful in classification and regression problems [28]. The common algorithms

under supervised learning are Nearest Neighbor, Naïve Bayes, Decision Trees, Linear Regression, Support Vector Machines (SVM), and Neural Networks. [29]

### **2.1.18.2 Unsupervised Learning**

Unsupervised learning is where a deep learning algorithm is fed with a dataset without explicit instructions on what to do with it. The dataset handed is a collection of examples without a specific desired result then the neural network attempts to find structure by extracting useful features and analyzing its structure. It is difficult to measure the accuracy of the algorithm under unsupervised learning. [28]

### **2.1.18.3 Reinforcement Learning**

Reinforcement learning is a type of machine learning and is a branch of Artificial Intelligence that uses observations from the environment to take actions and make decisions. It continuously learns from its environment and explores a full range of possible states. It employs a trial-and-error approach to come up with a solution. For the computer to operate the way the programmer wants, it either gets rewards or penalties for the actions it performs. It aims to maximize the reward. [29][30]

## **2.1.19 Sampling Techniques**

Imbalanced datasets where one class is much more than the other effect both the learning and classification processes of the model, disregarding the

minority class. The minority class is those of rare events, unusual patterns, and abnormal behaviors which are hard to detect.

Sampling methods eliminate the threats of skewed distribution. Under sampling removes instances from the majority class and shortens the model training time because of the reduced size of the training dataset but may overlook any important information because of reducing the size. Oversampling duplicates or creates new instances from the minority class and increases the model training time but has the potential to cause overfitting. The combination of both sampling techniques will help to solve the issues of imbalance class problems with their functions. [31]

### **2.1.20 Natural Language Processing**

Natural Language Processing is a field in machine learning and creating an algorithm to let the computer or other technologies understand the language of humans. By reading different types of data that contain texts such as social media comments, online reviews, survey responses, even financial, medical, legal, and regulatory documents, it can understand and analyze the meaning of texts. To do that, this machine learning model must undergo training with different types of datasets. [32][33]

#### **2.1.20.1 Semantic Analysis**

Semantic Analysis is the process of understanding language the way how humans communicate based on meaning and context. It starts by reading all the texts in content by their literal meaning. After reading, it will identify the text elements and assign them to their logical and

grammatical role. It analyzes the text structure and context because words' meaning depends on how it is used in a sentence. [34]

#### **2.1.20.2 Syntactic Analysis**

A syntactic analysis will take place before semantic analysis. The purpose of syntactic analysis is to draw the exact meaning of the words based on context. It is where the structure and grammar used are checked and assign a semantic structure to text. The 7 syntax techniques that can be used are Lemmatization, Morphological Segmentation, Word Segmentation, Part-of-speech tagging, Parsing, Sentence-breaking, and stemming. [35]

#### **2.1.21 Blockchain**

Blockchain is a method of storing data in a way that is difficult or impossible to alter, hack, or trick. A blockchain is a digital ledger of transactions duplicated and distributed through the blockchain's entire network of computer systems. Each block in the chain contains several transactions. A record of that transaction is added to the ledger of each party if a new transaction occurs. Distributed Ledger Technology is a decentralized database that is managed by multiple participants (DLT). A blockchain is a form of distributed ledger technology in which transactions are registered using a hash, which is an immutable cryptographic signature. [36]

##### **2.1.21.1 Public Blockchain**

A public blockchain is the permission-less distributed ledger technology where anybody can connect and make transactions. It is a non-

restrictive version where each peer incorporates a duplicate of the ledger. Anybody can access this type of blockchain if they have an internet connection.

One of the pioneers of open blockchains released in public was the *bitcoin public blockchain*. It empowered anybody connected to the web to make transactions in a decentralized way. The confirmation of exchanges is done through consensus methods — Proof-of-Work (PoW), Proof-of-Stake (PoS), etc. The participating nodes at the cores require to do the heavy lifting, along with transaction validations to make the open blockchain work. If an open blockchain does not have the requisite peers participating in settling transactions, it'll end up non-functional. Other examples include Ethereum, Litecoin, and NEO. [37]

### **2.1.21.2 Private Blockchain**

A private blockchain can best be characterized as a blockchain that works in a restrictive environment such as a closed network. Additionally, it is a permissioned blockchain controlled by an entity. Private blockchains are astounding for utilizing at a privately held company or organization that needs to utilize them for internal use-cases. By doing so, the blockchain will be utilized successfully and permit only selected participants to access the blockchain network. The organization can also set distinctive parameters to the network, along with accessibility, authorization, etc.

Same with the previous type, it offers the same set of highlights, supporting transparency, trust, and security to the selected participants. It differs in the way it is accessed. It is centralized because only one authority administers the network. [37]

#### **2.1.21.3 Consortium Blockchain**

A consortium blockchain (also known as Federated blockchains) is a creative approach to solving organizations' needs where there is a need for both public and private blockchain features. In a consortium blockchain, some aspects of the organizations are made public, while others remain private. The consensus procedures are controlled by the preset nodes. More so, even though it is not open to mass people, it still holds a decentralized nature. A consortium blockchain is managed by more than one organization. So, there is no single force of centralized outcome here.

To ensure proper functionality, the consortium has a validator node that can do two functions: validate transactions and initiate or receive transactions. In comparison, the member node can receive or initiate transactions. In short, it offers all the features of a private blockchain, including transparency, privacy, and efficiency, without one party having consolidated power. [37]

#### **2.1.21.4 Hybrid Blockchain**

Hybrid blockchain is a combination of both private and public blockchain. In reality, hybrid blockchain does come with disadvantages

like other blockchain technology types. However, they are quite minimal. It seems that hybrid blockchains may just be perfect for a lot of upcoming business models. [37]

### **2.1.22 NEM Blockchain**

The New Economy Movement, or NEM, aspires to create a smarter, more technologically advanced blockchain. It distinguishes itself as more than just another altcoin running on another blockchain. NEM, also known as the Smart Asset blockchain, is a technology platform that aims to be a cost-effective and efficient way to manage assets and data.

The NEM network has its cryptocurrency, XEM. Even though XEM is not as widely accepted by merchants as bitcoins, it has risen in value and now has the twelfth-largest market capitalization among cryptocurrencies. The Nano wallet is the only wallet that NEM supports.

NEM seeks to create a "better" blockchain by incorporating two main concepts: proof-of-importance (POI) and harvesting. The POI mechanism in NEM solves the problem by giving more "importance" to how much one is "invested" in the NEM scheme, with a realistic "vested" interest. The number of XEM coins in the wallet and the time spent keeping them are important factors in determining the value. [38]

## **2.2 Related Studies**

### **2.2.1 Database Management System**

#### **2.2.1.1 Lore: A Database Management System for Semi Structured Data**

Jason McHugh et. al. developed a database management system with the integration of Lore (for Lightweight Object Repository), which was designed specifically for managing semi-structured information. Implementing Lore had required rethinking all aspects of a DBMS, including storage management, indexing, query processing and optimization, and user interfaces. The study focused on these aspects of the Lore system, as well as other novel features such as dynamic structural summaries and seamless access to data from external sources. [39]

#### **2.2.1.2 Transaction Management in the R\* Distributed Database Management System**

This paper dealt with the transaction management aspects of the R\* distributed database system. It concentrated primarily on the description of the R\* commit protocols, Presumed Abort (PA), and Presumed Commit (PC). PA was optimized for read-only transactions and a class of multisite update transactions. PC was optimized for other classes of multisite update transactions. [40]

#### **2.2.1.3 Application Development for Searching Drugs Information**

A comparison was conducted between four different models to compare which method was better for the drug search engine application. The models were normal x SQL, normal x FTS3, class x SQL, class x FTS3. Normal is for the common storage, while class was for the class

storage. SQL was for the SQL search, while FTS3 was for the FTS3 search.

[41]

#### **2.2.1.4 One approach for full-text search of files in MongoDB based systems**

The study used the MongoDB database together with GridFS for the file system. GridFS are for files that are larger than 16 MB, the limit in MongoDB for BSON documents. The NodeJS and the Express framework implemented the server application. The test files had different sizes, topics, and structures in the same language. [42]

#### **2.2.1.5 Performance Evaluation of Query Response Time in The Document Stored NoSQL Database**

The study carried out four stages: system analysis, identification of hardware and software requirements, design and implementation, and measurement. The response time of each query for the process of creating, reading, updating, and deleting (CRUD) documents stored on the database was determined. The NoSQL databases selected were MongoDB, ArangoDB, and CouchDB. MongoDB, ArangoDB, and CouchDB used Robo3T, the ArangoDB Web Interface, and the command line with curl, respectively, to perform the query execution. [43]

#### **2.2.1.6 A University Fixed Asset Database Information Management System Based on Internet of Things**

Zhijian Yu et. al. used barcode technology in Database Information Management System providing financial data to office systems and campus network interface. This work applied barcode technology in realizing the technology that was based on the Internet of Things. [44]

#### **2.2.1.7 Database programming using Java**

This study focused on database programming using Java. A database programming using Java for the Microsoft Access DBMS. The Java programming language has the potential of working with different databases like SQL Server, Oracle, Informix, Sybase, Microsoft Access, and others. Java used the JDBC (Java Database Connectivity) tool to work with the database. [45]

#### **2.2.1.8 An Analysis on Automatic Performance Optimization in Database Management Systems**

This study focused on the foundations of optimization techniques that can be utilized for the configuration-based database optimization process. Database optimization was divided into two main categories as Physical design-based optimization and Configuration parameter-based optimization. The priority was given for the Configuration parameter-based optimization. Configuration-based optimization comes with its own set of challenges as (1) Large configuration parameter space, (2) Interdependency of configuration parameters, and (3) Configuration change with different types of workloads. [46]

#### **2.2.1.9 Extending Document Management Systems with User-Specific Active Properties**

This paper aimed to develop an experimental prototype called Placeless Documents systems which were based on the seamless integration of user-specific, active properties. Document properties can reflect not only categorizations of documents and document use, but also

expressions of desired system activity, such as sharing criteria, replication management, and versioning. [47]

#### **2.2.1.10 Object-oriented database management systems for construction of CASE environments**

This study focused on a fully object-oriented database management system which was a very suitable basis for every modern CASE environment. The proponents described how the features provided by an OODBMS were exploited to build a CASE tool or environment. They also discussed problems concerning inter-document consistency constraints and multi-user support, then sketched the features which were still missing in OODBMSs. [48]

### **2.2.2 Image Pre-processing**

#### **2.2.2.1 Preprocessing Framework for Document Image Analysis**

In this study, the pre-processing methods used for document image noise removal and enhancement were color image to grayscale conversion, image enhancement, grayscale to binary conversion using the Otsu method, and clutter noise removal for further processing. The Wiener filter provided the lowest MSE and highest PSNR compared to Lowpass and Median Filters. The document was free from clutter noise and the quality was enhanced. [49]

#### **2.2.2.2 A Document Image Preprocessing System for Keyword Spotting**

In this study, an approach based on keyword spotting was applied. The three image manipulation techniques used were skew correction, document layout analysis, word segmentation. The causes of errors in the

system were the error of DLA, error of word segmentation, and incapability of word extraction from non-text regions. The average processing time of the skew estimation and correction were 0.16 and 0.34 seconds. Korean and English images have the average processing time of layout analysis for about 0.23 and 0.35 seconds, respectively. The accuracy for word segmentation modules for Korean and English Documents was about 99%. [50]

#### **2.2.2.3 Enhancement of old images and documents by Digital Image Processing Techniques**

In this study, it proposed a hybrid binarization that combined global and local thresholding. The areas with remaining noise were applied with further processing. The results of the processing showed that it was able to deal with hard cases that have different background noises present while the precision was still high. [51]

#### **2.2.2.4 Selecting Automatically Pre-processing Methods to Improve OCR Performances**

In this study, it developed a system that can automatically select the suitable pre-processing method depending on the nature of the OCR and the type of distortions using convolutional neural networks (CNN). Combinations of different pre-processing methods were used in OCR systems such as Tesseract and Long Short-Term Memory (LSTM) neural networks. A pre-processing method can decrease the performance of an OCR system and the method to be used depends on the nature of the OCR

and the type of distortion. The result had shown significant improvement with Tesseract OCR using the CNN-based method. [52]

#### **2.2.2.5 Optical Odia Character Classification using CNN and Transfer Learning: A Deep Learning Approach**

In this study, the input image underwent grayscale image conversion, binarization, segmentation, and reshaping. The result moved to the CNN block to classify the characters and the predicted handwritten Odia characters. The accuracy obtained from the experiment with the transfer learning models ResNet50 and VGG16 was 96%, an effective technique for classification of characters using transfer learning, while 70% for using CNN. [53]

#### **2.2.2.6 The OCropus Open-Source OCR System**

This study aimed to create a new open-source OCR system. Its three major steps or processes were layout analysis, text line recognition, and statistical language modeling. Image preprocessing was stated to be an important part of OCR system as it greatly improves overall OCR error rates. This included binarization, image cleanup, skew correction, gray scaling etc. This study also provided page frame detection allowing noise in non-content areas to be cropped away or removed. OCropus was one of the best available open sources for English tesseract text line recognizer. [54]

#### **2.2.2.7 Image Preprocessing for Improving OCR Accuracy**

This study focused on image preprocessing for proving its role for improving the OCR accuracy. First was image rotation or in other term

skew correction. It was done to adjust the orientation of the texts since it must be parallel to image boundaries. Perspective correction was for the document images that was not acquired orthogonally to the paper sheet resulting in trapezoid or parallelogram shape of the text area. Non-linear image transformation to make the text line linear. These image preprocessing methods resulted in 0.03% up to 3% error rate after undergoing OCR. [55]

#### **2.2.2.8 A Segmentation-Free Approach for Keyword Search in Historical Typewritten Documents**

This study aimed to search for keywords typed by the user in a large collection of digitized typewritten historical documents. This research having about 90% precision rate used different image preprocessing techniques. These were image binarization converting grayscale images to a binary image. Image enhancing to have a better quality of the text regions. Orientation and skew correction to correct the text orientation. Noisy border removal leaving only the area with texts. Average character height estimation was required for smoothing process in segmentation of the typewritten historical document images into words. Word retrieval and feature extraction were the final image preprocessing techniques used in this study. [56]

#### **2.2.2.9 Improving Optical Character Recognition of Finnish Historical Newspapers with a Combination of Fraktur & Antiqua Models and Image Preprocessing**

This study's method for improving OCR outperformed the ABBYY FineReader results, a commercial tool OCR. One of the image

preprocessing methods used were binarization that turns grayscale image pixels into binary image. Gaussian blur was for blurring, a method used to attenuate the most frequent image pixels. Histogram equalization was also used for enhancing the contrast of the image. Skew correction was also applied. This study concluded that image preprocessing techniques were big factors for improving the result of the OCR. [57]

#### **2.2.2.10 Mobile Application for Recognizing Text in Degraded Document Images Using Optical Character Recognition with Adaptive Document Images Binarization**

This study focused on converting degraded books or documents into digital format. The study used Tesseract as its OCR engine and Sauvola Adaptive Document Image Binarization for the image preprocessing. Each pixel of the input grayscale image must be calculated and then classifying each pixel if it was for the background value or the foreground value and outputs a binary image. [58]

### **2.2.3 Optical Character Recognition**

#### **2.2.3.1 Improving the Accuracy of Tesseract 4.0 OCR Engine Using Convolution Based Preprocessing**

In this study, the image used underwent the convolutional preprocessor where it applied a set of given convolution kernels to the image then the output proceeded to the Tesseract 4.0. The input images were portrayed as three-channel signals (Red, Green, and Blue). To reduce the number of channels,  $1 \times 1$  convolution was used for each channel to have an output of 1 grayscale channel. The method of convolution-based preprocessing shows that the score for the Tesseract 4.0 can improve using

only image preprocessing. Though the result of the method was considerable, it was not the best. [59]

### **2.2.3.2 Improving the Efficiency of Tesseract OCR Engine**

In this study, the researchers aimed to improve the efficiency of the Tesseract OCR Engine by requiring better accuracy in preprocessing, considering the rotation of the input image to achieve zero degrees angle, resolution optimization by compressing large photos to fitted resolutions, DPI adjustments for the better extraction process, and luminosity threshold gray scaling algorithm. The result of the experiment showed that there was a percentage decrease in runtime from the original paper to the enhanced one. The average time of extracting per word decreased from 681 ms to 459 ms. Few images were found less accurate due to special symbols overlapping with character boundaries and light distortions. [60]

### **2.2.3.3 Numerical Simulation Technology Study on Automatic Translation of Foreign Language Images Based on Tesseract-OCR**

In this study, the main algorithms used were the OCR recognition technology algorithm and pixel filtering algorithm. Tesseract-OCR and OpenCV software Library were used for the image translation. Tesseract-OCR recognized the English word, calibrate it, and translated it into Chinese. Pictures were made from the translated Chinese words. OpenCV removed the English words in the image. The last was to overlay the Chinese image on the original image. It was necessary to deal with the Chinese vocabulary of horizontal, vertical, and various slanting angle positions. [61]

#### **2.2.3.4 OCR-Based Electronic Documentation Management System**

In this study, a web application was developed that allows the user to upload a PDF scanned document. Then, based on the OCR engine, the software analyzed the scanned document based on the position of the information. After recognizing the desired information, the user was able to edit the document to correct some information. The software developed was tested for its accuracy in recognizing the Arabic language in the scanned documents. [62]

#### **2.2.3.5 OCR Service Platform Based on OpenCV**

In this study, OpenCV was used for the plate recognition of the vehicles that was divided into two processes: plate detection and character recognition. The plate detection performed Gaussian blur, grayscale processing, Sobel operator, binarization, close operation, outline taking, filter outline, and uniform size for image preprocessing. SVM algorithm was used to test and train the data. The character recognition process has three sub-processes: OCR segmentation (character segmentation), ANN training, and character recognition. The recognition rate was related to the algorithms of extraction and training, and training result. The success rate of recognition can be improved by considering the diversity of training samples and optimize the training algorithm. [63]

#### **2.2.3.6 OCR Based Document Archiving and Indexing Using PyTesseract: A Record Management System for DSWD Caraga, Philippines**

In this study, open-source Python-Tesseract library, the wrapper for Google's Tesseract-OCR Engine was used to automate records

classification. Hardcopy documents was converted into softcopy documents by scanning. The scanned documents were turned into text with the use of the Python-Tesseract library. The management of record's classification, indexing and archiving becomes effortless with the integration of this library to Django and MySQL. This system provides ease for the records officer since the records were secured and can be retrieved any time. [64]

#### **2.2.3.7 Course Crediting System using Optical Character Recognition**

In this study, Tesseract OCR was used for the automation of the Transcript of Record's (TOR) subject crediting. It started with the uploading of the image which then it underwent to OCR algorithm for it to be converted into a text file. The results were compared to the stored school's credential. In manifesting the algorithm, VB.net and MySQL Database was used. With the help of the system, the manual method in accrediting turns to a technological way which was beneficial for the registrar. For checking, the registrar staff double checked the result of the system to verify its accuracy. [65]

#### **2.2.3.8 Course Evaluation Generator (CEG): An Automated Academic Advising System with Optical Character Recognition**

In this study, an automated course generator was developed by combining the application of OCR with the institutional policy of course crediting. Tesseract OCR was used to extract the text from the scanned image of the Transcript of Record (TOR) of the student. Then, with the

policy, evaluation through course comparison using course description, grades, pre-requisites, and credit units was done. The success rate of CEG was high since a weighted mean of 3.41 which means strongly agree was gained from the respondents of the system. [66]

#### **2.2.3.9 Vehicle Plate Monitoring and Information System Using Optical Character Recognition (OC) Technique**

In this study, a system was developed for the automation of monitoring vehicles. EmguCV, an image processing library was used to enhance the image in the conversion of image to text with Optical Character Recognition (OCR). Pre-processing process included the search and detection of the license plate of the vehicle. The system started when a vehicle entered the premise and as the system detected the license, it captured the vehicle plate and converted the captured image into text. The system tried to match the text in the database information. As for the result, the system can only detect license plate when the vehicle's speed was 10 to 15 kph and as for the distance, 2 meters away from the camera. [67]

#### **2.2.3.10 Optical Character Recognition for Expiration Dates Validation**

In this study, Python 3.7 programming language was used to create the software. Tesseract library was used for OCR. OpenCV was used for image preprocessing techniques. The image preprocessing methods used in the study were gaussian blur, color to grayscale conversion, thresholding, image closing or morphological operation, and segmentation. The letters were extracted using Tesseract. Alternate

method used was unified characters method that extracts the whole word instead of characters only. [68]

#### **2.2.3.11 Digitally encoded seal for document verification**

The study characterized different strategies on seal generation applicable to an item. Additionally, verification will be utilized by scanning the seal to access encoded data. A system may apply a seal encoded with data such as a hash of a portion of information for document verification of an item's authenticity as well as facilitating physical transfer of digital currency and computing system. Documents can be tangible, and may include legal ones such as a contract, lease, bill of sale, license, property title, etc. The seal can also be an optically scannable barcode with one or more dimensions. This may include UPC or QR code. The seal can also be an NFC or RFID tag which emits RF signal which contains the encoded data. The encoded data may include a document identifier which can be employed to know if a document is authentic or an authorized version.[69]

#### **2.2.3.12 OCR technology-based text automatic generation method and device, equipment and medium**

The study invented a technology that focuses on automatic generation of text such as documents by performing image text recognition and image text processing. After obtaining the text information, next steps are word segmentation and filtering to obtain a word set and extract keywords and matching it on the keywords saved in the database and generate texts. Input images can be stored in blockchain.[70]

## **2.2.4 Machine Learning**

### **2.2.4.1 Classifying receipts or invoices from images based on text extraction**

In this study, the proponents used ABBYY FineReader as the OCR tool to extract text. The dataset was presented in ARFF format to classify the texts. The results from Weka's Naïve Bayes classifier and specialized Naïve Bayes with additional features were compared and evaluated. The results showed that the specialized Naïve Bayes classifier with the Fixed penalty feature produced the highest accuracy of 95.6522% on cross-validation mode on the dataset with the automatically extracted text. [71]

### **2.2.4.2 Text and Image Based Spam Email Classification using KNN, Naïve Bayes, and Reverse DBSCAN Algorithm**

In this study, the proponents compared the classification algorithms which were KNN, Naïve Bayes, and Reverse DBSCAN to detect text and image-based spam emails. Enron corpus datasets was used, and the pre-processing steps of e-mail texts and extraction of words from the images using Tesseract OCR were done to improve the classification of the algorithms. The pre-processing methods done were time consuming, but it produced better accuracy than not applying the methods. Naïve Bayes algorithm had an 87% accuracy with pre-processing compared to the 47% accuracy without pre-processing the data. [72]

### **2.2.4.3 India Language Text Representation and Categorization using Supervised Learning Algorithm**

In this study, the proponents represented and categorized the Indian language text documents by testing and using several text mining

techniques such as Naïve Bayes Classifier, K-Nearest Neighbor, and Decision Tree for text categorization. The text pre-processing methods used on the collected documents were document standardization, tokenization, stop words removal, stemming or lemmatization, and creation of vector space model (TF-IDF). The traditional recall and precision measures were used to measure the effectiveness of the algorithms. Naïve Bayes was able to obtain a 97.66% accuracy which was the most efficient algorithm for Indian language text categorization for this study. [73]

#### **2.2.4.4 Multi-Class Classification of Turkish Texts with Machine Learning Algorithms**

In this study, the proponents classified the Turkish texts using different methods based on supervised machine learning. The models were analyzed with different parameters. The classification algorithms tested with five predefined classes were Multinomial Naïve Bayes, Bernoulli Naïve Bayes, Support Vector Machine, K-Nearest Neighbor, and Decision Trees. The best classification for the study with a success of about 90% was the Multinomial Naïve Bayes which was ought to be effective in classifying Turkish texts. [74]

#### **2.2.4.5 Machine Learning-based Approaches for detecting COVID-19 using Clinical Text Data**

In this study, the proponents wanted to detect the coronavirus with the help of the diagnosis of the disease using various AI tools. The textual clinical reports were pre-processed and classified into four classes

(COVID, ARDS, SARS, and both (COVID and ARDS)) using machine learning algorithms that were compared based on the results of their performance measurements. The feature engineering was applied using TF-IDF, Bag of Words (BOW), and report length to help the machine learning classifiers. Logistic Regression and Multinomial Naïve Bayesian classifier obtained the highest results out of the other classifiers with 96.2% testing accuracy. [75]

#### **2.2.4.6 Heart Diseases Detection Using Naïve Bayes Algorithm**

In this study, the proponents developed a heart diseases prediction system based on the medical data from the data set that was classified using Naïve Bayes algorithm. Naïve Bayes algorithm was performed using Weka with 70% of percentage split of data set. The model was able to obtain 86.42% of accuracy with minimum time. [76]

#### **2.2.4.7 Meme Opinion Categorization by Using Optical Character Recognition and Naïve Bayes Algorithm**

In this study, the proponents classified the types of a meme by applying image processing, OCR using Tesseract, and classified by Naïve Bayes algorithm. The collected memes were applied with image segmentation and Tesseract OCR extracted the texts but not able to recognize italicized texts. The text underwent to pre-processing such as data cleaning, tokenizing, normalization before it underwent to data training and testing using Naïve Bayes algorithm. The accuracy of the model was 75% out of 100 datasets that consisted of 60 data training and 40 data testing. [77]

#### **2.2.4.8 Optimization of Text Classification using Supervised and Unsupervised Learning Approach**

In this study, the proponents created a classification model that optimize text classification by testing different supervised and unsupervised machine learning algorithms. A 20-newsgroup data set was used with Python as the programming language that used Natural Language Toolkit to perform NLP processing. Multinomial Naïve Bayes was the best in precision, F measure for Bernoulli Naïve Bayes, and accuracy and recall was the best in K means. [78]

#### **2.2.4.9 Document Classification of Accreditation Documents Using Machine Learning Algorithm**

In this study, the proponents collected texts from both text-based and image-based documents using optical character recognition. Term frequency-inverse document frequency (TF-IDF) technique was used for text preprocessing. Naïve Bayes classifier was used for the model. The result of the cross validation in testing of the accuracy of the model was 90%. [79]

#### **2.2.4.10 A Proposed Arabic Text and Text Image Classification Technique using a URL Address**

In this study, the proponents used the optical character recognition (OCR) algorithm to extract the Arabic language texts in an image from a URL address and Naïve Bayes machine learning algorithm to classify the texts for a sentiment analysis to identify if the contents were desirable or undesirable. The programming language used for the machine learning

was C#, while MATLAB was used to program the OCR algorithm. The accuracy of the results using the algorithms were good. [80]

### **2.2.5 Web-based Application**

#### **2.2.5.1 Development of a Web-based Recommendation System for Filipino STEAM Educators**

B.D. Brillo et. al developed a web-based recommendation system that would provide learning exemplars to STEAM educators according to the proficiency level they were classified in upon answering the self-rating proficiency questionnaire. The focus of the research is the creation of a web application with HTML, CSS, JavaScript, SQL Alchemy, and NGINX, as well as a predictive model using Python. The educators were provided a pseudocode beforehand to prevent the creation of multiple accounts for a single user and to ensure that only authorized individuals could use the system. [81]

#### **2.2.5.2 Development of File Management System for ECE Accreditation**

J.P. Aroso et. al developed a document management system to aid TUP-Electronics Manila's Electronics Engineering Department during accreditation. The system uploads, stores, previews, downloads, prints, and rates accreditation self-surveys. The proponents utilized the MVC framework which corresponds to the manipulation of all required ECE DMS database data. The front-end of the web application was developed using JavaScript, Hypertext Markup Language (HTML), and Cascading

Style Sheets (CSS), while the back end employs PHP, C, JavaScript, and MySQL. [82]

#### **2.2.5.3 Web-Based Academic Information System**

In this study, R.F. Syafariani and A. Devi developed a web-based system to make the academic information system more effective and efficient in formal education data processing. PHP and MySQL were utilized to manage the database and develop the web application. The final result of the system is an automated generation of temporary report cards and provides several applications, including implications for curriculum planning and development that are useful for managing students, teachers, grades, and schedules, and so on. [83]

#### **2.2.5.4 Web-Based Recommendation System for Smart Tourism: Multiagent Technology**

R. Hassannia et. al developed a recommendation system for the smart tourist business that is based on agent and web technologies and utilizes a hybrid recommendation filtering. HTML and AJAX were used to develop the user interface, whereas HTTPS and JADE were used to create the communication amongst other agents. [84]

### **2.2.5 Blockchain**

#### **2.2.5.1 Blockchain-Based Smart Employment Decision Support System**

In this research, the proponents gathered records such as grades, board exam results, and the self-assessment result are ensured to be unaltered making it authentic and secured with the use of NEM's Apostille service. A PDF file that contains the result from the system together with

the certificate where the hash key was written were generated by Python's PDF Kit Library while the certificate image was coded in Python using the Pillow module. [85]

#### **2.2.5.2 Development of a Secure and Private Electronic Procurement System based on Blockchain Implementation**

In this research, the proponents developed a blockchain-based online procurement system utilizing the three blockchain components such as digital signature, multi-signature protocol, and blockchain notarization. XEM tokens were sent to users in which they can use for bidding purposes. The system was created using PHP, JavaScript, HTML, CSS, and jQuery for the design, programming logic and the blockchain aspect of the system. [86]

#### **2.2.5.3 How to Use Blockchain for Diabetes Health Care Data and Access Management: An Operational Concept**

In this research, the proponents used the concept of an existing blockchain platform to describe an architecture for implementing data and access management. The NEM multi-signature blockchain was used to have access control and allow privacy over the patient's health care data. It enabled patients, health care workers, and researchers to have an access and control over the said account. [87]

#### **2.2.5.4 A Blockchain-Based Framework for Secure Log Storage**

In this research, the proponents used Interplanetary File System (IFSP) to store log files aside from blockchain because of the large files in the log storage. Ethereum private blockchain was used for the storage of

file hashes and store the smart contract code. Remix IDE was used to develop and test the smart contract. PoA algorithm was used for consensus algorithm. [88]

#### **2.2.5.5 Modified SHA256 for Securing Online Transactions based on Blockchain Mechanism**

In this research, the proponents developed a modified SHA256 security protocol to protect online transactions with application of Blockchain Mechanism establishing privacy and trust. They integrated the blockchain technology with off-chain transaction, which did not cater publicly accessible service, to consider low computational intricacy (given that on-chain has a big implication in operational cost) but with a more efficient outcome. They also modified SHA256 security protocol that lessened the weight of high-end computing devices or optimum transactions, but still preserving its strong security. The data encrypted was evaluated to avoid illegitimate transactions. Blockchain forwarded the tokens to customers such as IDs, timestamps, and requests, with corresponding public keys and a nonce. When in decryption, the tokens were deciphered by Blockchain through private keys. Then MSHA256 ensured the data integrity. [89]

#### **2.2.5.6 Crypto Pharmacy – Digital Medicine: A Mobile Application Integrated with Hybrid Blockchain to Tackle the Issues in Pharma Supply Chain**

In this research, the proponents developed a crypto medicine supply chain mobile application where the manufacturers, pharmacists, doctors, and patients can track the medicine through the linked QR code to

verify that the medicine was authentic and to see more details during its transport. The proponents integrated NEM Blockchain and made use of the NEM nano wallet which stored the cryptocurrencies, XEM, in the form of .wlt file that had the private key and encrypted with a password. It also utilized the NEM mosaic and namespace services for the types of medicine, and for the details of the medicine and payment option available with NEM. [90]

#### **2.2.5.7 Blockchain-based Notarization for Social Media**

In this research, the proponents developed a blockchain-based notarization service for social media to prevent uploading of fake contents. Instead of the user generating a snapshot or document to be notarized, the social media service provider generated those with their digital signature using a private key. Forgery will be avoided for the users who will attempt to fake a content will not be able to do so since they do not have the private key for the digital signature. [91]

#### **2.2.5.8 Access Control for Electronic Health Records with Hybrid Blockchain-Edge Architecture**

In this research, the proponents developed a system with hybrid architecture that utilized blockchain and edge nodes for electronic health record data. Smart contracts were programmed on Hyperledger Composer Fabric blockchain, and they also imposed an ACL policy to record access transaction events into blockchain. The system ensured that only authorized people had access to a particular EHR data wherein the Healthcare provider can have access to EHR data of their patients, and the

patient only have access to their data. EHR data was stored on edge nodes which impose ABAC policies that was specified in ALFA. [92]

#### **2.2.5.9 Video streaming system based on Internet of media things and blockchain**

In this research, the proponents developed a video streaming system that utilizes Internet of Things (IoT) and blockchain. The proponents set up two cameras on different locations that were used to capture the campus and the laboratory. Smart contracts were written in the Ethereum Blockchain and ERC20 tokens were used to depict the length of time that the IP cameras streamed a scenario video to the user in real time. Distributed Applications (DApp) was used to control the cameras the user chose. [93]

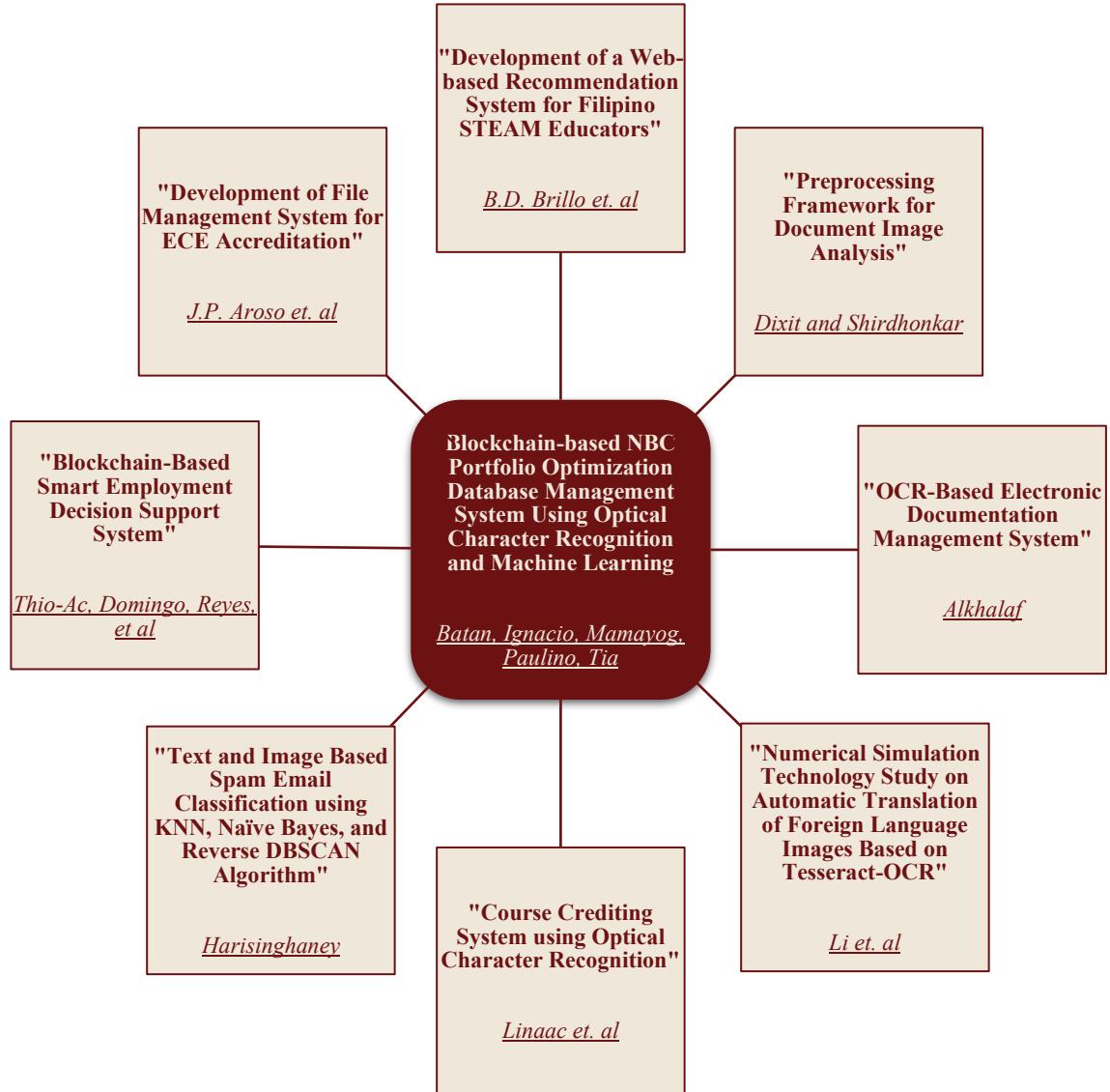
#### **2.2.5.10 Blockchain as a Notarization Service for Data Sharing with Personal Data Store**

In this research, the proponents developed a system architecture based on blockchain notarization to verify the authenticity of the documents presented. The data custodian generated a hash of the data-subject ID, data-custodian ID and data resource then uploaded it to blockchain which the custodian only has the authority to do so. It was downloaded by the user and uploaded it to PDS. Policies were enforced to only give access to authorized people. The hash was used to verify the document in the blockchain if it was valid and authentic, forged, revoked, and if it did not have a matching hash in the system. [94]

## CHAPTER THREE

### RESEARCH METHODOLOGY

#### 3.1 Theoretical Framework



**Figure 3.1** Theoretical Framework of the Study

Figure 3.1 shows the related studies which support the proposed research study.

To further improve the technology, a developed web application will allow the users to upload a PDF scanned document needed by the system [62]. A pseudocode, which is a 5-

digit alphanumeric code, was given beforehand to the users and it will be entered upon creating an account. In developing the web-based application, HTML/CSS, PHP, MySQL, Javascript, Java, and Bootstrap were utilized [81][82]. The application of image pre-processing methods in the documents are proved to enhance the quality of the image document which will help to improve the accuracy of the results of the OCR engine [49]. Tesseract-OCR software libraries will work on the image enhancement and recognition of characters [61][62][65]. The categorization and pointing system of the documents will be done by testing and training the documents and integrating a machine learning algorithm for the classification of documents [65][71][72]. The researchers will be integrating Naïve Bayes classifier because of the high accuracy of the model on text extraction using OCR on text-based and image-based documents [71][72]. A PDF file that contains the results of the summary of points will be available to print and it will be authenticated and secured with the use of NEM's Apostille service [85]. The keywords for categorization, user information, credit points, and softcopy documents are all stored in a database system [95]. The principles behind the studies help the researchers to develop the research idea and came up with the study entitled - Blockchain-based NBC Portfolio Optimization Database Management System Using Optical Character Recognition and Machine Learning.

### 3.2 Conceptual Framework

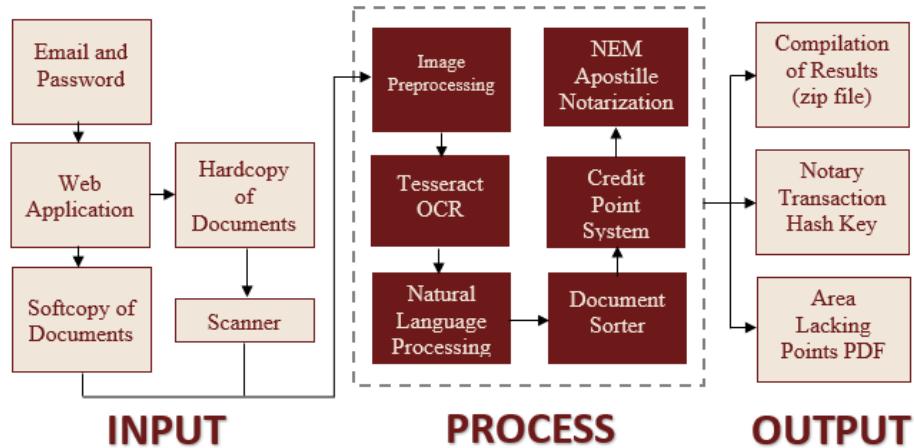


**Figure 3.2** Input-Process-Output (IPO) Model of the Study

Figure 3.2 illustrates the Input-Process-Output (IPO) model of the study. The research requires fundamental knowledge regarding machine learning algorithms, specifically Naïve Bayes, Natural Language Processing (NLP) algorithms that would improve the text result from the OCR, Tesseract Optical Character Recognition (OCR) Algorithm, and knowledge in several programming languages such as Java, PHP, Javascript, and coding HTML/CSS. In addition, software requirements include HTML/CSS, PHP, Javascript, Java, Visual Studio Code which is a code editor, XAMPP

which provides Apache web server and creation and manipulation of databases in MySQL, and Eclipse which is a Java IDE. The system requires the user to input their data – First Name, Last Name, Email Address, Password, Department, Pseudocode, and Points from Previous Cycle – and after successfully creating an account, they are allowed to upload their documents. The programs needed were developed such as the Java program for OCR to allocation of points process, the web-based application, and the NEM Blockchain Apostille Service Notarization program. The expected output is an NBC iPromote Web-based Application that automates the NBC 461-CCE point system.

### 3.2.1 Block Diagram of Blockchain-based NBC 461 Database Management System

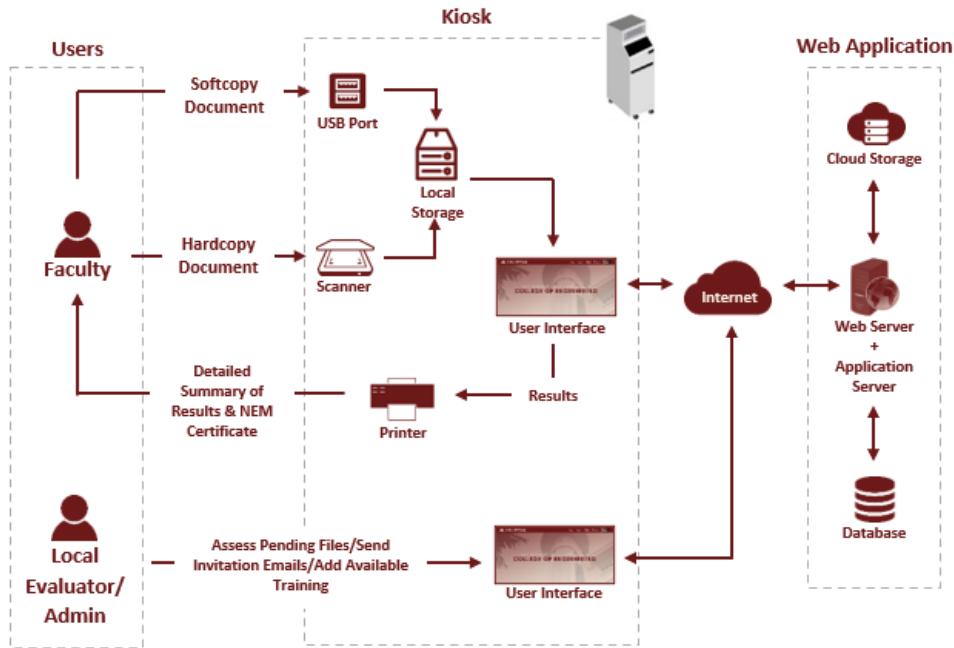


**Figure 3.3** Block Diagram of the Proposed System

Figure 3.3 presents the block diagram of the proposed system. The proposed technology has a web application which can be accessed by entering an email and a password. After logging in, the user could scan their hardcopy documents through the scanner provided in the kiosk, or upload the softcopy of their documents which will then undergo image preprocessing before being converted into a machine-readable file by the Optical Character Recognition

(OCR). The document will be sorted according to its predicted category and corresponding points will be assigned to it by the system. The credit points are stored in the database and a copy of their uploaded document will be stored to the cloud-based storage. The system provides a detailed summary of points notarized by the NEM Apostille. It can be printed by the user and a portfolio optimization wherein it displays to the user the categories that they still lack points. Softcopy of the documents can be viewed, downloaded, and deleted on the web application.

### 3.2.2 System Architecture



**Figure 3.4** System Architecture

Figure 3.4 presents the system architecture of the study. If faculty members already have a softcopy of the document, the file must be transferred from their device or flash drive through the USB Port available, to the local storage of the kiosk. However, if they have a hardcopy, it must first be scanned using the kiosk's scanner. The digital copy of the file must be uploaded to the web application,

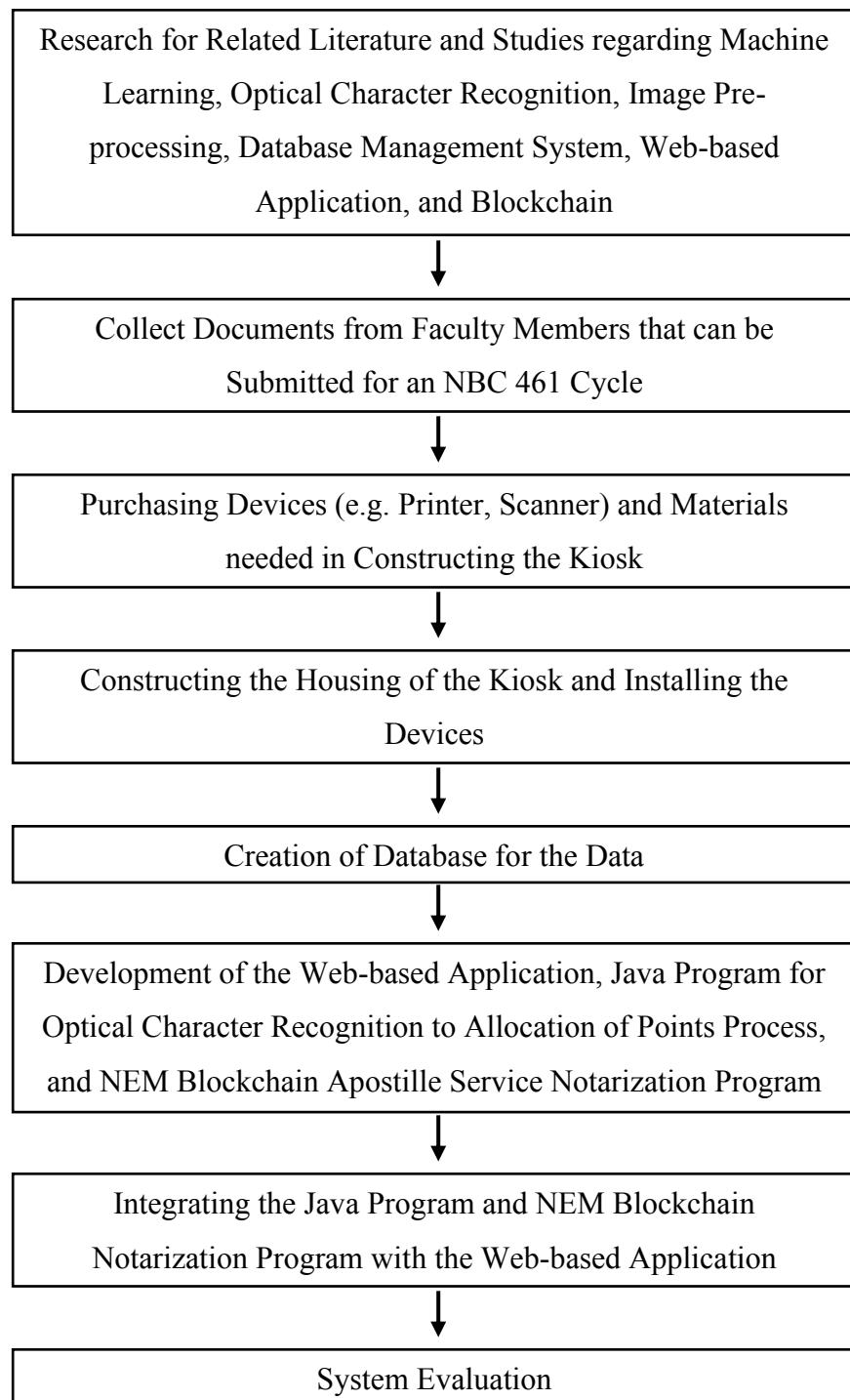
which is accessible over the Internet, and will then be automatically processed. The extracted data from the uploaded file will be saved to the database, while the uploaded file will be stored on the cloud storage. The results and other data were displayed to the user, and they were able to print their results using the kiosk's printer. Meanwhile, the role of the local evaluator or the department head who is assigned as the admin, is to assess the files uploaded by faculty members with a 'PENDING' status. Also, the admin has the authority to add available trainings and send invitation email to faculty members beforehand.

### **3.3 Research Locale**

The study was conducted at Technological University of the Philippines – Manila in Ayala Boulevard in Ermita, Manila, and all College of Engineering faculty candidates were encouraged to participate. The kiosk was deployed in the College of Engineering Faculty Office for convenient access and to prevent being an obstruction in the hallway. The kiosk aided the faculty members in scanning their hardcopy documents and printing their detailed summary of results along with the NEM Apostille certificate.

### 3.4 Research Design

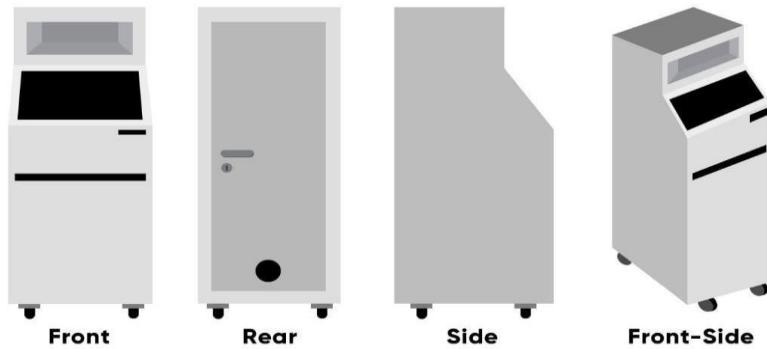
The following figure shows the research process flow of the study.



**Figure 3.5** Research Process Flow Chart

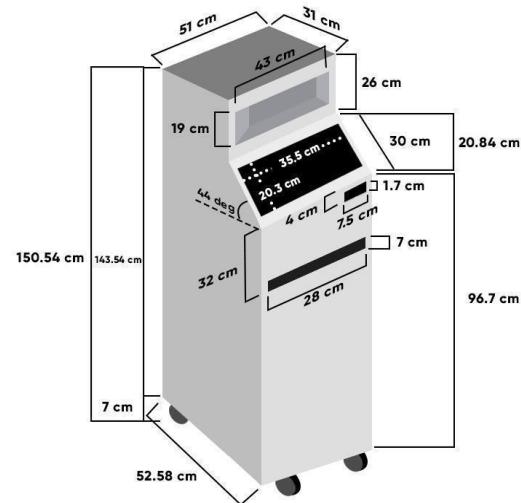
## 3.5 Project Development

### 3.5.1 Hardware Design

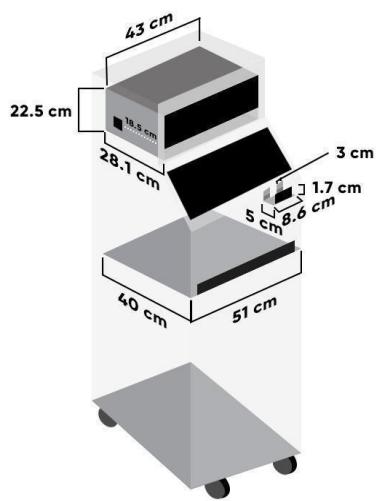


**Figure 3.6** Kiosk design

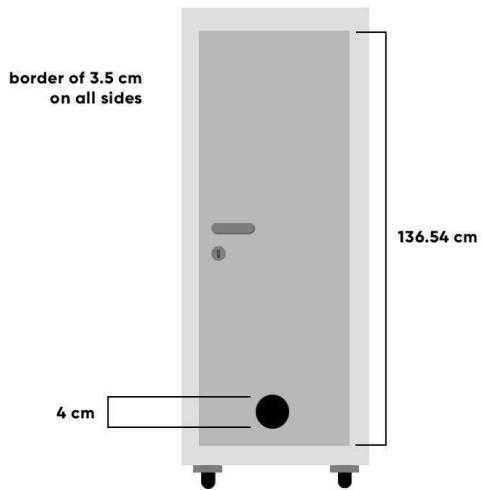
The kiosk contains the flatbed scanner that is placed inside the enclosed space above the touchscreen monitor while the printer is placed below. A door at the back allows the admins to insert bond papers for printing and to have access to the devices.



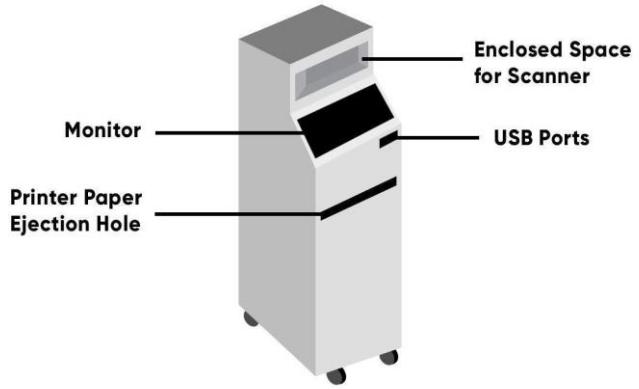
**Figure 3.6.1** Kiosk Dimensions



**Figure 3.6.2** Kiosk Inner Dimensions



**Figure 3.6.3** Kiosk Rear Dimensions



**Figure 3.6.4** Kiosk Parts Label

The dimension and design of the kiosk follow the ergonomics and anthropometric measurements aspects. According to the study conducted by Rahman, Dawal, Yusoff, and Kamil which studies all the anthropometric measurements of the four Asian countries, Filipino people have a mean standing elbow height of 100.2 cm, males have a mean of 104.1 cm and 96.3 cm for females. [96]

In ergonomics, it is advised to have the height from the floor to the screen of the kiosk be the same as the elbow height in which the upper arm of the user would be resting straight. Based on the study conducted by Schultz, Batten, and Sluchak, the preferred touchscreen angles range from 19 to 55 degrees with 44 degrees chosen by most people. [97]

### **3.5.1.2 Hardware Setup**

The kiosk consists of a touchscreen monitor, scanner, printer, System Unit, AVR, USB Port Hub, and a Wi-Fi dongle. The touchscreen monitor serves as the user interface of the kiosk with the system unit to

store the files that will be scanned using the scanner. The printer was used to print the results such as the detailed summary of results, area lacking points PDF file, and the NEM Apostille certificate. The USB Port Hub allows the user to transfer the softcopy of their document if they have it digitally prepared.



**Figure 3.7** Fortress F160TM Touchscreen Monitor

(<https://cf.shopee.ph/file/364e3d4125c6b17cb5852f549d27248c>)



**Figure 3.8** CanoScan LiDE 300 Flatbed Scanner

([https://www.bhphotovideo.com/images/images2500x2500/canon\\_2995c002\\_canoscan\\_lide\\_300\\_color\\_1428262.jpg](https://www.bhphotovideo.com/images/images2500x2500/canon_2995c002_canoscan_lide_300_color_1428262.jpg))



**Figure 3.9** Canon MG2540S 3-in-1 Printer

([https://www.canon.co.uk/media/PIXMA%20MG2540S%20200x200\\_tcm14-1435331.jpg](https://www.canon.co.uk/media/PIXMA%20MG2540S%20200x200_tcm14-1435331.jpg))



**Figure 3.10** System Unit

(<https://itcircle.b-cdn.net/wp-content/uploads/2021/06/san-600x666-1.jpg>)



**Figure 3.11** Automatic Voltage Regulator

([https://cdn.shopify.com/s/files/1/0101/4864/2879/products/36-a\\_fa373427-7d82-4543-b0c1-af866c49c372.jpg?v=1629537259](https://cdn.shopify.com/s/files/1/0101/4864/2879/products/36-a_fa373427-7d82-4543-b0c1-af866c49c372.jpg?v=1629537259))



**Figure 3.12** Wi-Fi Dongle

([https://cdn.sandberg.world/products/images/lg/133-91\\_lg.jpg](https://cdn.sandberg.world/products/images/lg/133-91_lg.jpg))



**Figure 3.13** 3-Port USB Hub

(<https://www.ventioncable.com/wp-content/uploads/2021/10/%E7%99%BD-11.jpg>)

### **3.5.2 Software Design**

#### **3.5.2.1 Machine Learning**

##### **3.5.2.1.a Dataset**

The dataset used to build the machine learning model is from the data initially gathered from the faculty members of the College of Engineering. The faculty members will be personally asked for their consent to give their documents for the study. The submission of documents will be optional.

##### **3.5.2.1.b Techniques**

In this research, the proponents will use the machine learning algorithm, Naive Bayes, to classify the documents. In comparison with other algorithms, Naive Bayes shows greater accuracy of the model on the extracted text by using Optical Character Recognition (OCR) on text-based and image-based documents. It is easy to implement and works well on a small

number of data sets. The pre-processed text is saved in a text file. The text files are presented in ARFF format as the dataset to classify in Weka. Naïve Bayes is implemented and used for text classification. [71][72]

The issue of imbalance class problems is targeted to be solved by the combination of undersampling and oversampling sampling techniques. Oversampling is applied to minority classes, while undersampling is applied to majority classes. The application of sampling techniques will help to improve the dataset distribution. Generally, a division of 80% data for the training set and 20% data for the test set is advisable. N-fold cross-validation is a solution for a small dataset even with 80/20 division for training and test set to avoid a large amount of variance. The idea is to perform the entire process for N-times and get the average of all the performance metrics to see how the model performs on average [98]. The study will use 80% data for the training set and 20% data for the test set. 10-fold cross-validation is performed to observe the performance of the model on average.

### **3.5.2.1.c Evaluation Measure**

Performance measures are the criteria used to evaluate the machine learning algorithms. An imbalanced dataset should not rely on accuracy in evaluating the performance, other metrics considered for this type of dataset are precision, recall, and F1-

Score (F-Measure), which can all be derived from the Confusion Matrix generated while testing the model. The formulas for computing the performance metrics are:

$$Precision = \frac{TP}{TP + FP}$$

$$Recall = \frac{TP}{TP + FN}$$

$$F1 - Score = \frac{2 * (Precision * Recall)}{Precision + Recall}$$

F1 score is the harmonic average of precision and recall.

The definition of the following combination of precision and recall are given as follows [99]:

- High Precision & High Recall: The model handled the classification task properly.
- High Precision & Low Recall: The model cannot classify the data points of the particular class properly but is highly reliable when it does so.
- Low Precision & High Recall: The model classifies the data points of the particular class well but misclassifies high number of data points from other classes as the class in consideration.
- Low Precision & Low Recall: The model handled the classification task poorly.

### **3.5.2.2 Text extraction**

#### **3.5.2.2.a Tesseract OCR**

The PDF files of the documents are converted into images.

The images are pre-processed using image binarization and image rescaling. Image pre-processing techniques enhance the quality of the image that improve the accuracy of the results of the OCR engine [49].

#### **3.5.2.2.b Natural Language Processing**

The text extracted from the Tesseract OCR is applied with Natural Language Processing techniques such as the removal of whitespace, removal of special characters, removal of words less than three characters, conversion of text to lower case, spelling correction, and lemmatization. Natural Language Processing techniques are used in text pre-processing or text post-processing for further improvement of the text for further analysis.

### **3.5.2.3 Web-based Application**

In this research, the proponents employ JavaScript, CSS, HTML, PHP, Bootstrap, and MySQL in developing the web application. JavaScript is used by web developers in web application development as it creates dynamic and interactive web pages [100]. HTML is used for the structure and CSS for the design. PHP is used to allow the web application to have access to the database. The web application is coded on Visual Studio Code text editor and XAMPP as the local web server.

The developed web application in this study was deployed on an AWS EC2 instance Windows Server with a domain name of ‘www.nbcipromote.com’ which was purchased on GoDaddy.

### **3.5.2.4 Blockchain**

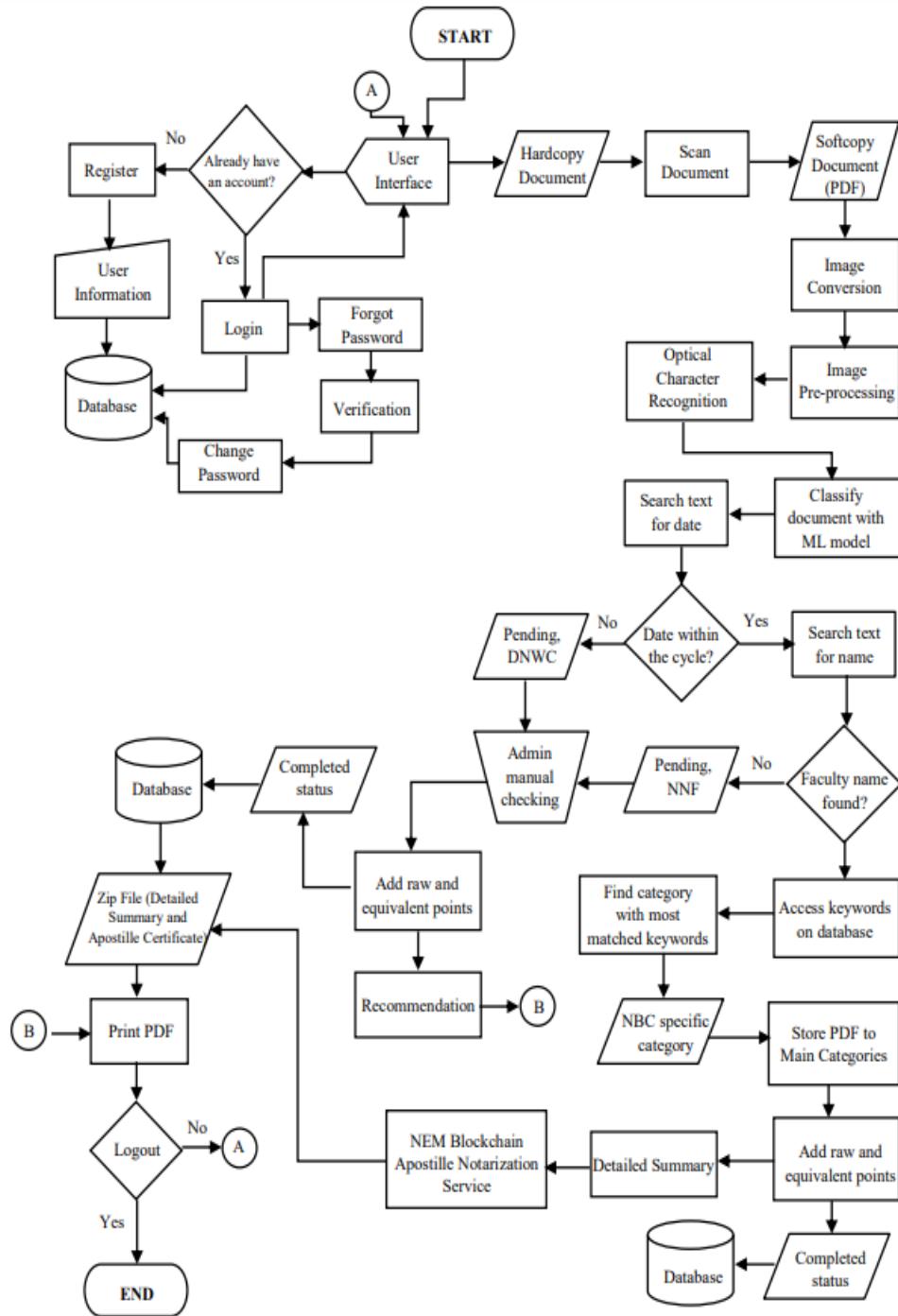
#### **3.5.2.4.a Nano Wallet**

Nano wallet is used to connect to the NEM platform. It offers a simple wallet and a private key wallet. Testnet is for the simple wallet that everyone can access and have free tokens. Mainnet is for the private key wallet that requires money to have tokens. The cryptocurrency for NEM is called XEM. XEM is important because it is used to create transactions.

#### **3.5.2.4.b NEM Apostille**

NEM Apostille is one of the services that NEM offers. It lets the user notarize files as well as audit the files stored in NEM. NEM-SDK was the library used in NEM programming. Using the codes in NEM-SDK, the proponents were able to create an apostille and create transactions.

### 3.5.3 Software Flowchart



**Figure 3.14** Software Flowchart of the Proposed System

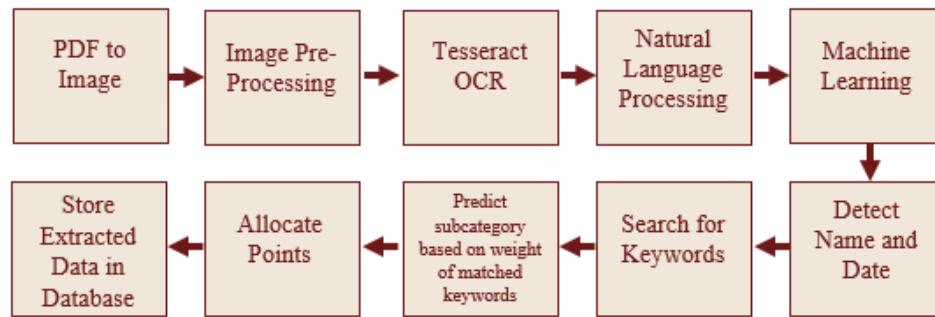
Figure 3.14 presented is the software and hardware flowchart. Upon opening, the user interface displays a login page and a button that directs them to the registration page if the user does not have an account yet. The user must provide their information and pseudocode sent to them to create an account. If the user forgot their password, a button is displayed that allows them to change their password after verification. The activities and information provided to the system will be stored in the database. After logging in successfully, the user can now scan the hardcopy document or upload the softcopy document. The PDF file will be converted into an image and will proceed to the image preprocessing to enhance the features and the quality of the image before optical character recognition.

The system will search the text for the date and check if it is within the cycle. If the date is not within the cycle, the ‘PENDING (DNWC)’ status will show. If it is within the cycle, then the system will search for the name of the faculty on the document. If the faculty name is not found, the ‘PENDING (NNF)’ status will show. If the faculty name is present in the document, the program will find what specific category contains the most matched keywords from the table of keywords and the document. Once the specific category is selected, in the table of points of the faculty, points will be input to the columns of the raw points and equivalent points that are equivalent to the classified specific category of the document. The ‘COMPLETED’ status will show after giving points. After the allocation of points, a detailed summary is produced that can be notarized with NEM Apostille Notarization Service to ensure the authenticity of the results.

Meanwhile, the documents with ‘PENDING (DNWC)’ and ‘PENDING (NNF)’ statuses will be given 0 points and shall be subjected to manual checking by the admin. The admin will add raw points based on the NBC categories and will be given equivalent points automatically. The ‘COMPLETED’ status will show after giving points to the document.

All the documents with a completed status that were categorized and given points are saved in the database. A generated zip file containing the detailed summary and Apostille Certificate can be downloaded and printed. The user may now choose to log out and will be directed again to the login page.

### 3.5.4 Simplified Block Diagram of the Classification System



**Figure 3.15** Simplified Block Diagram of the Classification System

Figure 3.15 illustrates the simplified block diagram of the classification system. The PDF uploaded will be converted to an image and applied with image pre-processing techniques. Tesseract OCR is used to extract the text on the image. Natural Language Processing techniques are applied to the extracted text to improve text quality for classification. The text is then classified based on its subcategory using the machine learning model. After classification, it will search

for the date and the name of the faculty before proceeding with searching for keywords. With the presence of the date and name of the faculty, it proceeds on keyword searching for specific categories under the classified subcategory. The category with the highest matched keywords will be the final category, then that category will be allocated with points and stored in the database.

### **3.6 PASUC Common Criteria for Evaluation (CCE) Point System**

The following is the CCE point system for determining faculty rank and sub-rank:

#### **3.6.1 Major Factors and Maximum Points**

**Table 3.1 CCE Major Factors and Maximum Points**

<b>Factors</b>	<b>Maximum Number of Points</b>
Educational Qualification	85
Experience and Professional Services	25
Professional Development, Achievement and Honors	90
<b>TOTAL</b>	<b>200</b>

#### **3.6.2 Specific Factors and Guidelines for Determining Credits Points Under the Common Criteria for Evaluation**

**Table 3.2 The PASUC CCE Guidelines**

<b>1.0 Education Qualification</b>		<b>(85 pts.)</b>
1.1 Highest relevant academic degree or educational attainment.	Support Document(s): <ul style="list-style-type: none"> <li>a. Transcript of Records and/or</li> <li>b. Diploma/Certificate</li> </ul>	
	1.1.1 Doctorate	85
	1.1.2 Master's Degree	65
	1.1.3 LLB and MD	65

	<i>The MD shall be considered a Doctorate degree if the holder is licensed and teaching in a College of Medicine. LLB shall be considered a Master's Degree if the holder is a bar passer.</i>	
	1.1.4 Diploma Course (Above a Bachelor's degree)	55
	1.1.5 Bachelor's Degree	
	a. Four years	45
	b. Exceeding four years	45 plus 5 pts. For every year over 4 yrs.
	<i>Graduates of DVM, Engineering and DDM programs are considered Bachelor's degree holder with additional points for every year over four years.</i>	
	1.1.6 SPECIAL COURSES	
	a. 3- years post-secondary course	30
	b. Special Courses (Non- degree)	25
1.2 Additional equivalent earned related to the present position	Support Document(s): a. Transcript of Records and/or b. Diploma c. Approved curriculum (as needed)	
	1.2.1 Master's Degree	4
	1.2.2 Bachelor's Degree	3
1.3 Additional credits earned (maximum of 10 pts)	Support Document(s): a. Official class card b. Report of grades from the Registrar's Office	
	1.3.1 For every 3-unit credit earned towards an approved higher degree course	1
<b>2.0 Experience and Length of Service</b>	<b>(25pts)</b>	
<i>The Experience and services of a faculty designated to an administrative position like Vice-President, Dean, Director, etc., shall be credited only once, whichever is highest, within the period of his/her designation.</i>		
2.1 Academic Experience	Support Document(s): a. Service Record b. Appointment	
	2.1.1 For every year of full-time academic service in a state institution of higher learning	1
	2.1.2. For every year of full-time academic service in an institution of higher learning other than SUCs, service in a public or private research institution	0.75

2.2 Administrative Experience	Support Document(s): a. Service Record b. Appointment and/or designation	
	2.2.1 For every full-time year of administrative experience as:	
	a. President	3
	b. Vice President	2.5
	c. Dean/Director/School Superintendent	2
	d. Principal/Supervisor/Department Chairperson/ Head of Unit	1.5
<i>The credit as head of unit is given to a faculty-rank holder designated to any administrative or supervisory position.</i>		
2.3 Professional/Technical Experience	2.3.1 For every year of relevant full-time professional and technical experience as:	
	a. Manager/Entrepreneur/Consultant	1.50
	b. Supervisor/Head of Unit	1
	c. Rank and File	0.5
Support Document(s): a. Service Record b. Appointment and/or designation c. SEC/DTI registration for entrepreneur		
	2.3.2 For every year of experience in the public and private basic institution as:	
	a. Cooperating Teacher	0.75
	b. Basic Education Teacher	0.50
<b>3.0 Professional Development Achievement and Honors</b>		<b>90pts</b>
3.1 Discoveries, patented inventions, innovations, publications, and other creative works (maximum of 30 points)	3.1.1. For every cost and time saving innovation, patented invention, and creative work as well as discovery of an educational, technical, scientific and/or cultural value.	2 to 7 pts

#### A. Inventions

These are original patented (or must have patented pending) works which have direct contribution to education, science and technology. The basis for the weight is the patent score.

Support Document(s):

- a. Patent
- b. Certificate of patent pending

Criteria:

1. If patented – Multiply patent score by weight assigned according to criterion of utility.
2. If patented pending – Multiply patent by weight according to utility.

*Per invention or discovery, the following additional criteria and points allocation are prescribed.*

- Commercial Utility on:
  - an international scale 7
  - a national scale 5
  - institutional level 2
- The accrediting bodies for these factors on the international and national scale are:
  - Science and Technology NSTA
  - Education DECS
- For institutional level a University Committee shall accredit
- The patent paper/document must be presented to ascertain patent score.
- Credit points are divided equally among two or more individuals claiming credit for the same invention.

#### B. Discoveries

A discovery must be first of its kind or not of common knowledge. It shall be the result or product of the research of an individual or a group of faculties.

Support Document(s):

- a. Full description of the discovery
- b. Confirmation of an international or national agency/organization/association of expert
- c. Evidences disseminations and utilization

Criteria	Credits
1. Originality, educational impact documentation	60% of 7 (0.6×7)
2. Evidence of wide dissemination e.g. exhibits, publication	40% of 7 (0.4×7)

*Where there is more than one proponent the points are to be divided equally among them. If only one factor (e.g. [1] is satisfied, credit is awarded only for that factor.)*

	<p>C. Creative world has to satisfy one or more of the following criteria:</p> <table> <tr><td>1. Originality</td><td>25% of 2-7</td></tr> <tr><td>2. Acceptability and recognition</td><td>25% of 2-7</td></tr> <tr><td>3. Relevance and value</td><td>25% of 2-7</td></tr> <tr><td>4. Documentation and evidence of dissention</td><td>25% of 2-7</td></tr> </table> <p>Support Document(s):</p> <ul style="list-style-type: none"> <li>a. Full description of the creative work</li> <li>b. Evidences that shall satisfy the criteria for evaluation</li> <li>c. Appropriate certification from the duly organized committee establishing the value of the output</li> </ul> <p><i>The scale of 2-7 is distributed on the basis of competitiveness, thus –</i></p> <table> <tr><td>International</td><td>7</td></tr> <tr><td>National</td><td>5</td></tr> <tr><td>Institutional</td><td>2</td></tr> </table> <p>Credits are divided among two or more claimants. Examples of the creative works are published articles, literary items, musical compositions and/or arrangements, painting, sculpture and other performing arts.</p>	1. Originality	25% of 2-7	2. Acceptability and recognition	25% of 2-7	3. Relevance and value	25% of 2-7	4. Documentation and evidence of dissention	25% of 2-7	International	7	National	5	Institutional	2
1. Originality	25% of 2-7														
2. Acceptability and recognition	25% of 2-7														
3. Relevance and value	25% of 2-7														
4. Documentation and evidence of dissention	25% of 2-7														
International	7														
National	5														
Institutional	2														
	<p>D. Research results and innovations consist of improvement/modifications made on existing design, process or product.</p> <p>Support Document(s):</p> <ul style="list-style-type: none"> <li>a. Full description of the research/creative work</li> <li>b. Evidences that shall satisfy the criteria for evaluation</li> </ul> <p>The criteria for rating and points for each criterion are:</p> <table> <tr><td>1. Use of indigenous materials</td><td>20% of 7 pts.</td></tr> <tr><td>2. Relevance and value to the education, science and technology</td><td>20% of 7 pts.</td></tr> <tr><td>3. Cost/time/energy/saving</td><td>20% of 7 pts.</td></tr> <tr><td>4. Acceptability of peers</td><td>20% of 7 pts.</td></tr> <tr><td>5. Dissemination/documentation</td><td>20% of 7 pts.</td></tr> </table>	1. Use of indigenous materials	20% of 7 pts.	2. Relevance and value to the education, science and technology	20% of 7 pts.	3. Cost/time/energy/saving	20% of 7 pts.	4. Acceptability of peers	20% of 7 pts.	5. Dissemination/documentation	20% of 7 pts.				
1. Use of indigenous materials	20% of 7 pts.														
2. Relevance and value to the education, science and technology	20% of 7 pts.														
3. Cost/time/energy/saving	20% of 7 pts.														
4. Acceptability of peers	20% of 7 pts.														
5. Dissemination/documentation	20% of 7 pts.														
	<p>3.1.2. For every published book: original, edited or compiled, copy righted/ published within the last ten years.</p> <p>Support Document(s):</p> <ul style="list-style-type: none"> <li>a. Copy of the book</li> </ul> <table> <tr><td>a. As single author</td><td>3-7</td></tr> <tr><td>b. As co-author</td><td>2-5</td></tr> <tr><td>c. As reviewer</td><td>1-4</td></tr> <tr><td>d. As translator</td><td>1-4</td></tr> <tr><td>e. As editor</td><td>1-3</td></tr> <tr><td>e. As compiler</td><td>1-2</td></tr> </table>	a. As single author	3-7	b. As co-author	2-5	c. As reviewer	1-4	d. As translator	1-4	e. As editor	1-3	e. As compiler	1-2		
a. As single author	3-7														
b. As co-author	2-5														
c. As reviewer	1-4														
d. As translator	1-4														
e. As editor	1-3														
e. As compiler	1-2														

	<p>The factors and their weights are:</p> <p>1. Textbooks, including Science and Technology and References</p>						
	Role	Tertiary	High School	Elementary			
	Single Author	7 pts.	5 pts.	3 pts.			
	Co-author	5	3	2			
	Reviewer	4	2	1			
	Translator	4	2	1			
	Editor	3	2	1			
	Compiler	2	1	1			
	3.1.3 For every scholarly research/ monograph/Educational technical article in a technical/Scientific/professional journal.						
	<p>Support Document(s):</p> <p>a. Copy of the journal</p>						
	a. International	5					
	b. National/Regional	3					
	c. Local	2					
	3.1.4 For every instructional manual/audio-visual						
	<p>Support Document(s):</p> <p>a. Copy/Sample of the material</p> <p>b. Certificate of utilization</p>						
	<p>Under this item are modules, laboratory, manuals, operating manuals, workbooks, teaching guides, approved by the department or the college for instructional purposes. Also included in this category are software, prototype and Computer Aided Instruction materials. Submissions under this category should cover the course per syllabus.</p>						
	a. Single-author or maker	Full					
	b. Co-author, co-maker	Half					
3.2 For expert services, training and active participation in professional/technical activities (Maximum of 30 points)	3.2.1 Training and seminars						
	<p>3.2.1.1 For every training course with a duration of at least one year (pro-rated for less than a year in accordance with the formula <math>P = [(No. of Days/251*) \times \text{full credit}]</math> and not to exceed the full credit.</p>						
	a. International	5					
	b. National	3					
	c. Local	2					
	3.2.1.2 For certified relevant field training						

	(Maximum of 5 points)	1/120 hours
	3.2.1.3 For participation in conferences, seminars, workshops	
a.	International	3
b.	National	2
c.	Local	1
	<i>Very short training cannot be considered as seminar.</i>	
	3.2.2 Expert service rendered	(Maximum of 20 points)
	3.2.2.1 For serving as a short-term consultant /expert in an activity of an educational, technological, professional scientific or cultural nature (foreign or local) sponsored by government or other agencies.	
	Support Document(s):	
a.	Memo of agreement/Contract/Office Order pertaining to the consultancy work	
b.	Acknowledgement of output	
a.	International	5
b.	National	3
c.	Local	2
	3.2.2.2 For services rendered as trainer, coordinator, lecturer, resource person or guest speaker in conferences, workshops, and/or training courses for professionals	
a.	International	5
b.	National/Regional	3
c.	Local	2
	Support Document(s):	
a.	Certificate of appreciation/participation	
	3.2.2.3. For expert services as adviser in doctoral dissertation, master's and undergraduate thesis (maximum of 10 points)	
a.	Doctoral dissertation	1
b.	Master's thesis	0.50
c.	Undergraduate thesis	0.25
	3.2.2.4. For certified services as member of the Board of Examiners in the Professional Regulations Commission (PRC) or in the Civil Service Commission (CSC)	1
	Support Document(s):	
a.	Appointment or contact	
b.	Identification card	
	3.2.2.5. For expert services in accreditation/quality assurance work as member of the Board of Director, Accreditor, Member of the	1

	Technical Committee or Consultant Group in regional or national agencies															
	3.2.2.6 For expert service as testing officer in trade skills certification	1														
	3.2.2.7. For services as coach/trainer of students in official activities and adviser of accredited students' organization not to exceed 1 point per year	1														
	For purposes of pro-rating a year is at least 251 days, not to exceed 12 months.															
3.3. Membership in professional organizations/honor societies and honor received (Maximum of 10 pts.)	<p>3.3.1. For current individual membership in relevant professional organization(s)</p> <p>Support Document(s):</p> <ul style="list-style-type: none"> <li>a. Certificate of membership/Identification card/Official receipt of membership</li> <li>b. Copy of the official load of faculty</li> </ul> <p>a. Learned society</p> <table> <tr> <td>Full member</td> <td>2</td> </tr> <tr> <td>Associate member</td> <td>1</td> </tr> <tr> <td>b. Honor society</td> <td>1</td> </tr> <tr> <td>c. Scientific society</td> <td>1</td> </tr> <tr> <td>d. Professional</td> <td></td> </tr> <tr> <td>Officer</td> <td>1</td> </tr> <tr> <td>Member</td> <td>0.5</td> </tr> </table> <p><i>Learned society is an organization where the members are chosen by invitation and in recognition of their being considered learned in a scientific area of knowledge. E.g. National Research Council</i></p> <p>Honor society is a society of academic scholars, e.g. <u>Phi Delta Kappa Gamma Sigma Delta</u></p> <p>Professional/Scientific organizations are national bodies of professional practitioners in a specific field or science, e.g. Philippine Inventors Society, Philippine Society for Mechanical Engineers.</p> <p>The PDS of the faculty shall be filed for the purposes of checking if the membership was already credited.</p>		Full member	2	Associate member	1	b. Honor society	1	c. Scientific society	1	d. Professional		Officer	1	Member	0.5
Full member	2															
Associate member	1															
b. Honor society	1															
c. Scientific society	1															
d. Professional																
Officer	1															
Member	0.5															
	3.3.2. For academic honors earned:															
	<p>Support Document(s):</p> <ul style="list-style-type: none"> <li>a. A certificate or copy of a permanent record of the school</li> </ul>															
	3.3.2.1. Undergraduate Degree															
	a. Summa cum Laude	5														
	b. Magna cum Laude	3														
	c. Cum Laude	1														

	3.3.2.2. Graduate Degree	
	a. Highest Honors/ With Distinction or equivalent	3
	3.3.3. Scholarship/ Fellowship. This may be degree or non-degree granting.	
	Support Document(s):	
	a. Scholarship contract/agreement	
	b. Proof of completion or fellowship program or activity	
	a. International, competitive	
	Doctorate	5
	Master's	4
	Non- degree	3
	b. International, non- competitive	
	Doctorate	3
	Master's	2
	Non-degree	2
	c. National/Regional, competitive	
	Doctorate	3
	Master's	2
	Non-degree	1
	d. National/ Regional, non-competitive	
	Doctorate	2
	Master's	1
	e. Local: competitive, or non-competitive	1
	<i>Competitive means the use of a selection screening process or scheme for awarding a scholarship.</i>	
3.4 Awards of distinction received in recognition of achievement in relevant areas of specification/profession and/or assignment of faculty concerned:	Support Document(s):	
	a. Plaque of recognition/A copy of the criterion; criteria for the selection and proof of completion	
	a. International	5
	b. National	3
	c. Local	2
	<i>Awards of distinction granted by organization like BSP, GSP, Red Cross, Barangay Offices and other Civic, Cultural, Religious, Community including NGO's are classified Community Outreach.</i>	
	<i>The awarding body must be mandated to give the award. The CSC service awarding for 10,20,30, 40 are accredited as local awards.</i>	
3.5 Community Outreach (maximum of 5 points)	Support Document(s):	
	a. An office order pertaining to the services rendered	

	b. Certificate/Acknowledge of completion of project or activity																			
	3.5.1 For every year of participation in service- oriented projects in the community	1																		
<p><i>These are activities related to participation in community projects on top of Official duties and are voluntary in nature, with no additional compensation required. One year is operationalized to be equivalent to at least 251 days, not to exceed 12 months per program per clientele.</i></p> <p><i>Examples are voluntary services in scouting, cooperatives, Red Cross, Kabataang barangay, etc.</i></p> <p><i>Activities undertaken as officer/member of any professional, social, educational or other similar organizations which have already been credited in this instrument shall no longer be considered.</i></p>																				
<p>3.6. Professional examinations</p> <table border="1"> <tr> <td>3.6.1 For every relevant licensure and other professional examinations passed</td> <td>(maximum of 10 pts.)</td> </tr> <tr> <td colspan="2">Support Document(s):</td></tr> <tr> <td>a. Certificate of licensure</td><td></td></tr> <tr> <td>b. Rating Slip</td><td></td></tr> <tr> <td>c. Skill certificate/Identification card</td><td></td></tr> <tr> <td>a. Engineering, Accounting, Medicine, Law, Teacher's Board, etc.</td><td>5</td></tr> <tr> <td>b. Career Executive Service Officers Examination / Career Service Executive Examination...</td><td>3</td></tr> <tr> <td>c. Marine board/Seaman Certificate; Master Electrician/Master Plumber Certificate, etc., Plant Mechanic Certificate; Professional Radio Operator Certificate...</td><td>2</td></tr> <tr> <td>d. Other trade skill certificate</td><td>1</td></tr> </table> <p><i>Section B is only applicable to the faculty-rank holders designated to supervisory/executive positions.</i></p>			3.6.1 For every relevant licensure and other professional examinations passed	(maximum of 10 pts.)	Support Document(s):		a. Certificate of licensure		b. Rating Slip		c. Skill certificate/Identification card		a. Engineering, Accounting, Medicine, Law, Teacher's Board, etc.	5	b. Career Executive Service Officers Examination / Career Service Executive Examination...	3	c. Marine board/Seaman Certificate; Master Electrician/Master Plumber Certificate, etc., Plant Mechanic Certificate; Professional Radio Operator Certificate...	2	d. Other trade skill certificate	1
3.6.1 For every relevant licensure and other professional examinations passed	(maximum of 10 pts.)																			
Support Document(s):																				
a. Certificate of licensure																				
b. Rating Slip																				
c. Skill certificate/Identification card																				
a. Engineering, Accounting, Medicine, Law, Teacher's Board, etc.	5																			
b. Career Executive Service Officers Examination / Career Service Executive Examination...	3																			
c. Marine board/Seaman Certificate; Master Electrician/Master Plumber Certificate, etc., Plant Mechanic Certificate; Professional Radio Operator Certificate...	2																			
d. Other trade skill certificate	1																			

### 3.6.3 Point Allocation Under NBC No. 461

**Table 3.3** Point Allocation Under NBC No. 461

Faculty Rank	Sub-Rank	Point Bracket
<b>Instructor</b>	I	65 – Below
	II	66 – 76
	III	77 – 87
<b>Assistant Professor</b>	I	88 – 96
	II	97 – 105

	III	106 – 114
	IV	115 – 123
<b>Associate Professor</b>	I	124 – 130
	II	131 – 137
	III	138 – 144
	IV	145 – 151
	V	152 – 158
<b>Professor</b>	I	159 – 164
	II	165 – 170
	III	171 – 176
	IV	177 – 182
	V	183 – 188
	VI	189 – 194
<b>College/University Professor</b>		195 – 200

### 3.7 Technical Evaluation

**Table 3.4** Sample of the Technical Evaluation Form

<b>NBC 461 Database Management System Survey</b>								
<b>Introduction:</b> The students involved in the study need to conduct a survey for the evaluation of different aspects of the technology developed in the research entitled “ <b>NBC 2: BLOCKCHAIN-BASED NBC PORTFOLIO OPTIMIZATION DATABASE MANAGEMENT SYSTEM USING OPTICAL CHARACTER RECOGNITION AND MACHINE LEARNING</b> ”.								
<b>Instruction:</b> Please check one of the responses for each of the following statements if you agree or disagree. Rate <b>1</b> – if Strongly Disagree, <b>2</b> – if Disagree, <b>3</b> – if Neither Agree nor Disagree, <b>4</b> – if Agree, <b>5</b> – if Strongly Agree.								
<b>Survey Statements</b>				<b>Rating</b>				
				1	2	3	4	5
<b>Functional Suitability and Performance Efficiency</b>								
1. The system was able to facilitate the accomplishment of the specified tasks: storing, classifying, and allocation of points on documents.								
2. The system provides accurate and reliable results.								

3. The system's response and processing times consume less time when performing its functions compared to doing the process manually.					
4. It can handle numerous documents and still perform the tasks well.					
<b>Usability and Aesthetics</b>					
5. The web application is aesthetically pleasing.					
6. The web application is user-friendly.					
7. The operability of the kiosk is easy and requires minimum supervision.					
8. The kiosk is comfortable to use.					
9. The system is helpful in obtaining a real-time result of my current rank and detailed summary of points.					
10. I experienced errors or bugs while using the system.					
<b>Security and Portability of the System</b>					
11. The utilization of blockchain technology ensures that the result is authentic and legitimate.					
12. Having an account secures my personal information and results.					
13. It is helpful to have my personal pseudocode upon creating an account to ensure that only authorized persons can have access to the system.					
14. The system can be accessed using other devices other than the kiosk.					
15. In comparison to the traditional process, I prefer to use the kiosk in classifying and allocating points to my documents for the current NBC No. 461 cycle.					

The formulated survey form that will help the stakeholders and end-users to evaluate the system is patterned after and according to the ISO/IEC 25010 standard or the software quality standards. ISO/IEC 25010 comprises of eight quality characteristics: functional suitability, performance efficiency, compatibility, usability, reliability, security, maintainability, and portability [101]. The results of the categorization of

documents and allocation of points done by the system will be compared with the manual process done by the evaluators to test the accuracy of the technology.

### 3.8 GANTT Chart

**Table 3.5 GANTT Chart**

ACTIVITIES	2021												2022				
	February	March	April	May	June	July	August	September	October	November	December	January	February	March	April	May	June
Topic Consultation																	
Research on Relevant Studies																	
Formulation and Submission of Chapters 1 to 3																	
Gathering of Documents from Faculty Members																	
Canvassing and Purchasing of Materials for Kiosk																	
Construction of Kiosk																	
Development of the Java Program																	
Development of the Blockchain Notarization																	
Development of the Web Application																	
Integrating the Java Program and NEM Blockchain Program to the Web Application																	

Project Deployment																			
Testing and Evaluation																			
Formulation of Chapters 4 to 5																			
Finalization of Thesis Paper																			

### 3.9 Bill of Materials

**Table 3.6** Hardware Expenses (Kiosk)

Item Description	Quantity	Unit	Unit Cost	Price
Fortress Touchscreen Monitor	1	Pc	PHP 5,000	PHP 5,000
Canon Canoscan Lide 300 Scanner	1	Pc	PHP 3,817	PHP 3,817
Canon MG2540S 3-in-1 Printer, Scanner, and Copy	1	pc	PHP 4,020	PHP 4,020
Secure AVR	1	pc	PHP 400	PHP 400
System Unit	1	pc	PHP 4,800	PHP 4,800
USB Hub/Splitter	1	pc	PHP 361	PHP 361
Kiosk Housing	1	pc	PHP 6,000	PHP 6,000
Wifi Dongle	1	pc	PHP 268	PHP 268
<b>TOTAL</b>				<b>PHP 24,666</b>

**Table 3.7** Software Services Expenses (Web-based Application)

Item Description	Quantity	Unit	Unit Cost	Price
GoDaddy Domain	1	year	PHP 639	PHP 639
AWS Route 53 Charge	2	month	PHP 26.11	PHP 52.22
AWS EC2 (t3.medium) instance	2	month	PHP 1,924.41	PHP 3,848.82
Outbound Data Transfer (100 Gb to Other Regions)	2	month	PHP 25.11	PHP 50.22
Amazon Elastic Block Storage (40 Gb)	2	month	PHP 469.87	PHP 939.74

SendinBlue SMTP	30	email	PHP 0	PHP 0
<b>TOTAL</b>			<b>PHP 5,530</b>	

**Table 3.8** Miscellaneous Expenses

Item Description	Quantity	Unit	Unit Cost	Price
Alcohol Dispenser	1	Pc	PHP 130	PHP 130
Alcohol	1	Bottle	PHP 90	PHP 90
Bond Paper	1	Ream	PHP 165	PHP 165
Cable Organizer Clip	1	Pack	PHP 19	PHP 19
Adhesive Wire Hook	2	Pc	PHP 15	PHP 10
<b>TOTAL</b>				<b>PHP 414</b>

**Table 3.9** Total Expenditure of the Project

Item Description	Price
Hardware (Kiosk)	PHP 24,666
Software (Web Application)	PHP 5,530
Miscellaneous	PHP 414
<b>TOTAL</b>	<b>PHP 30,610</b>

## **CHAPTER FOUR**

### **RESULTS AND DISCUSSION**

This chapter presents the discussion and interpretation of gathered data and analysis of the results based on the tests conducted, with reference to the objectives of project deployment.

#### **4.1 Project Technical Description**

The project entitled NBC2: Blockchain-based NBC 461 Portfolio Optimization Database Management System Using Optical Character Recognition and Machine Learning is a system that provides automated allocation of points on documents of faculty members under NBC No. 461. It is utilized with Java Tesseract OCR that extracts texts from PDF, image preprocessing techniques for image binarization and rescaling of the converted image files, Natural Language Processing techniques for enhancing and correcting the extracted raw texts, Naive Bayes algorithm via machine learning used with Weka for text classification, MySQL database for user data, PHP for connecting to the database, managing dynamic content and session tracking, front-end framework and languages such as Bootstrap, HTML, CSS, and Javascript, web application hosting which includes AWS EC2, SendinBlue, Route 53, and GoDaddy, and NEM Blockchain Apostille Service applied in Javascript (node.js) for notarization of results.

The tables of keywords for each main categories were created which include columns for general keywords that contain keywords that can all be found in a few categories, and specific keywords which will determine the specific category of the

document. The keywords matched in general keywords and specific keywords were combined to determine the specific category that matches the most based on the keywords.

The system will search within the text for the date and will check if it is within the cycle. If the date within the cycle is not found, the ‘PENDING (DNWC)’ status will show. If the faculty name is not found, the ‘PENDING (NNF)’ status will show. Both statuses will be given 0 points and shall be subjected to manual checking of the admin. Once the specific category is selected, points will be allocated, and ‘COMPLETED’ status will show after giving points to the document. A detailed summary of results and a NEM Apostille certificate is generated and can be printed by the user.

## **4.2 Project Structural Organizational**

### **4.2.1 Hardware (Kiosk)**

The kiosk consists of a touchscreen monitor, scanner, printer, System Unit, AVR, and a Wi-Fi dongle. The Fortress touchscreen monitor has a screen size of 15.6 inches while the CanoScan lide 300 scanner has an optical resolution of 2400 x 2400 dpi and has a scanning speed of approximately 10 seconds for A4 documents. As for the Canon MG2540 printer, it has a print resolution of 4800 x 600 dpi and has a print speed of approximately 12 seconds per page. The system unit has an Intel Core i3 2<sup>nd</sup> Gen processor, 4 Gb DDR3 RAM, 500 Gb Hard Disk Drive, and 2 Gb graphics card. Secure AVR is a 220-Volt AVR, and the Wi-Fi dongle is a dual-band Wi-Fi adapter with frequency range of 2.4 GHz and 5 Ghz, and a transmission rate of 600 Mbps.

The constructed kiosk used Analok aluminum and polycarbonate panels. The scanner in the uppermost area has a height enough to open its lid and place

the hardcopy document on top of the glass plate. The printer is placed in the section below the monitor, while the system unit and AVR are both placed in the lowermost space. The screen's border is covered by a roll of sticker that resembles Analok aluminum. The two rear castor wheels have locks to keep the kiosk stationary when in use. The proponents also placed adhesive wire organizer clips to hold the wires in place and to make the interior of the kiosk neat with all the cables organized.



**Figure 4.1** Constructed Kiosk – Front



**Figure 4.2** Constructed Kiosk – Side

Figure 4.2 shows the side of the constructed kiosk. With the Covid-19 pandemic remaining rampant, the proponents attached a poster of the health and safety protocols along with an alcohol dispenser that was used to sanitize the hands of the user before and after using the kiosk. This is to ensure that safety measures are strictly observed.



**Figure 4.3** Constructed Kiosk – Rear

#### 4.2.2 Software (Web Application)

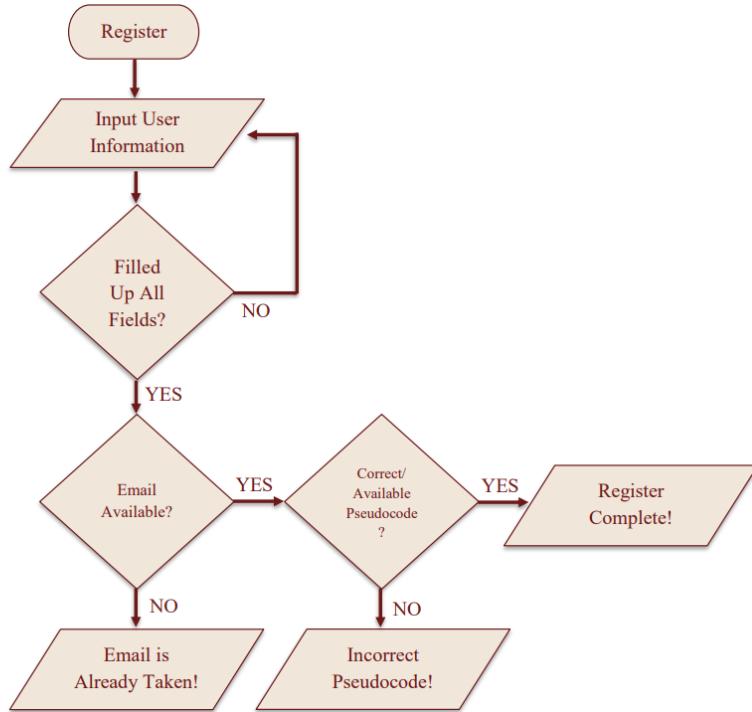


**Figure 4.4** Home Page of the Web Application

**Figure 4.5** About Page of the Web Application

**Figure 4.6** Guide Page of the Web Application

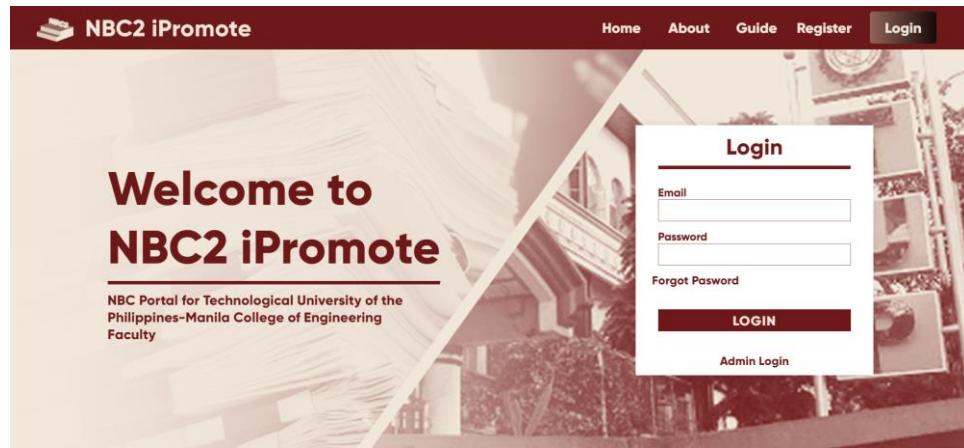
**Figure 4.7** Registration Page of the Web Application



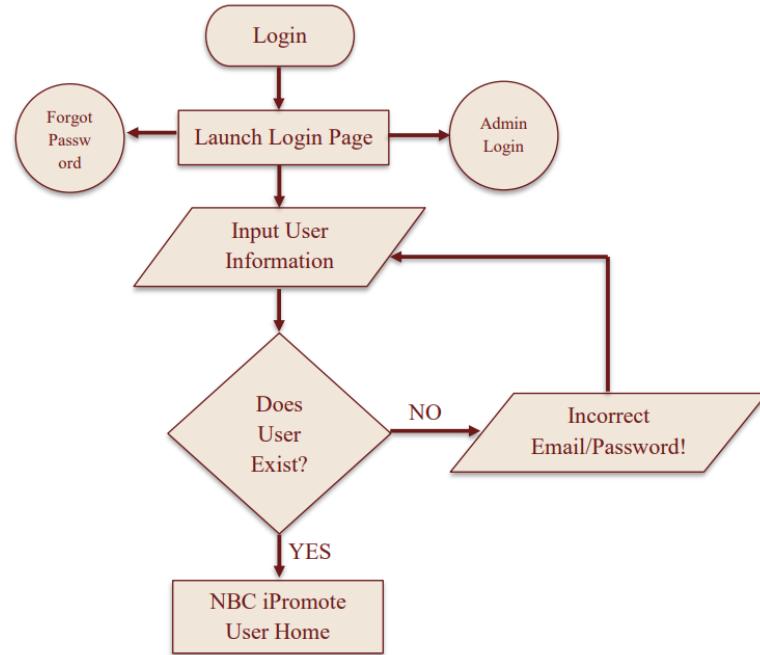
**Figure 4.8** Flowchart for Creating an Account

Figure 4.8 shows the flowchart when creating an account. User will be asked to input their personal information, email address, password, pseudocode, department, and the points they accumulated during the previous cycle. When the register button is pressed, the system will check if all required fields were filled up. If the input information is incomplete, the system will clear all text field and options then will be asked to fill up all fields properly. However, if entered information is complete, the system will check the email entered if it already exists in the database. If not, it will check the pseudocode if it exists in the database, used by another account, and if it matched the email address which it was sent to. It will indicate that the user successfully created an account if the output is ‘Register Complete!’ but will output ‘Incorrect Pseudocode!’ if pseudocode does not exist

in the database or if the user entered a pseudocode that is not dedicated to them. In case the email is already registered, it will output that the ‘Email is Already Taken!’.

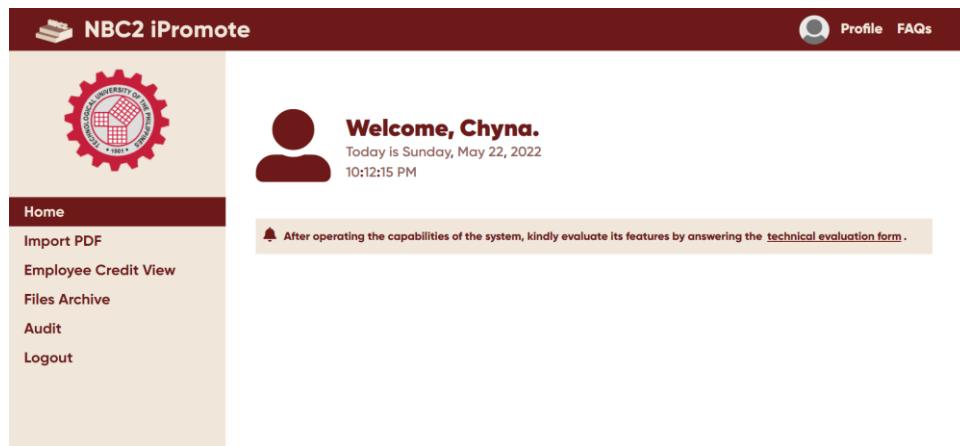


**Figure 4.9** Login Page of the Web Application

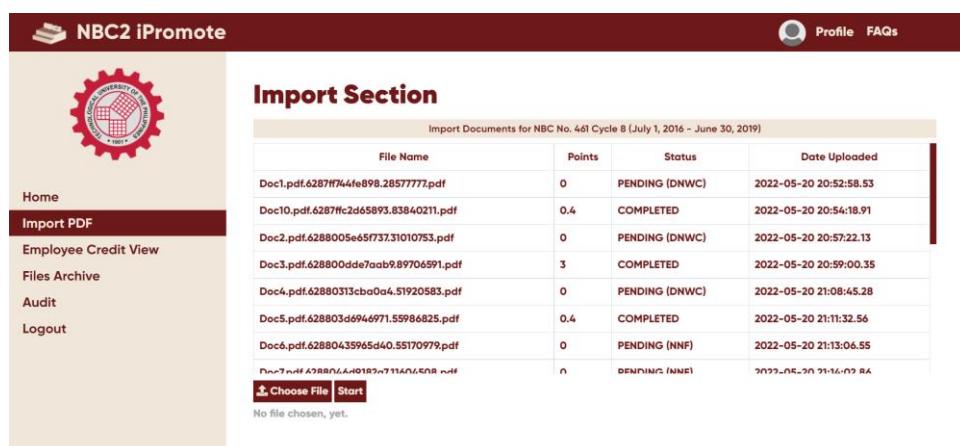


**Figure 4.10** Flowchart for User Login

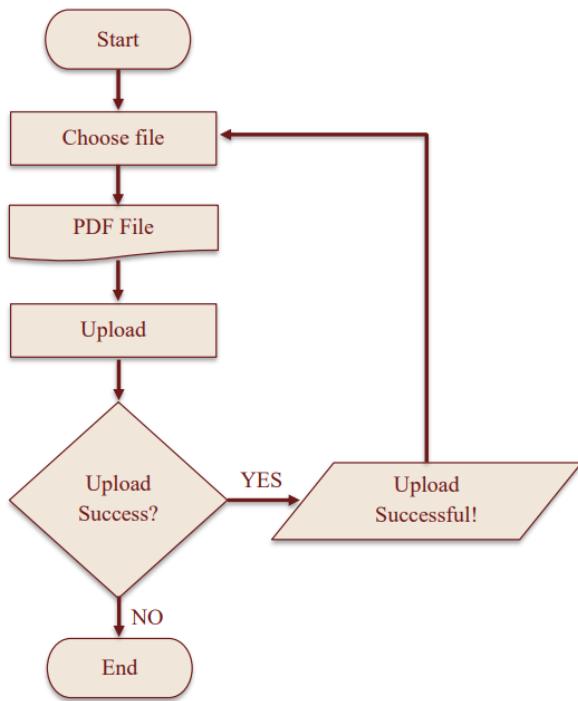
Figure 4.10 shows the flowchart for faculty members/user login. Login page has the option to login the faculty member, admin login, and forgot password. For faculty members, email and password have to be entered in order to login. On condition that either the user does not exist, or incorrect email and/or password was entered, the system will output ‘Incorrect Email/Password’. However, if the user exists and the entered credentials were valid, the user will be re-directed to the user home page interface.



**Figure 4.11** User Home Page of the Web Application



**Figure 4.12** Import PDF Page of the Web Application



**Figure 4.13** Flowchart for Importing PDF

Figure 4.13 presents the flowchart for importing a PDF file. The user will have to upload a PDF file they would like to submit for the NBC 461 Cycle 8 which will be automatically awarded points if the document is valid. If the upload is successful, the system will output ‘Upload Successful!’ and display the data extracted such as the points awarded, the status of the document, and the date when it was uploaded.

**Employee Credit View**

Category	Target Points	Credit Points
Educational Qualification	85	0
Experience and Length of Service	25	0
Professional Development Achievement and Honors	90	0
		0

Note: Please download a compilation of your results first by clicking the 'Download Results' button to generate a corresponding hashkey before printing your detailed summary and NEM Apostille certificate by clicking the 'Print Detailed Summary' button. If you choose not to, your NEM Apostille certificate's notary transaction hashkey will be left blank.

**Training Available**

**Figure 4.14** Employee Credit View Page of the Web Application

Category	Event	Date	Time	Contact Person	Contact Number	Address	Email
Professional Development Achievement and Honors	International Conference on Solar Power Technology	2022-06-15	09:00	ITR GROUP	N/A	Palm Plaza Hotel, Manila, Philippines	papers.itrgroup@gmail.com

Note: Please download a compilation of your results first by clicking the 'Download Results' button to generate a corresponding hashkey before printing your detailed summary and NEM Apostille certificate by clicking the 'Print Detailed Summary' button. If you choose not to, your NEM Apostille certificate's notary transaction hashkey will be left blank.

**Training Available**

**Figure 4.15** Screenshot of Training Available Modal

**Training Available**

**Figure 4.16** Screenshot of Downloaded Compilation of Results Zip File

TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES Ayala Boulevard, Ermita, Manila									
REVISED COMMON CRITERIA FOR EVALUATION OF FACULTY NBC - 461 8th Cycle (July 1, 2016 - June 30, 2019)									
NAME OF FACULTY : Chyna Paulino PRESENT RANK : Instructor I	COLLEGE OF ENGINEERING DEPARTMENT : Electronics Engineering Department								
1.0 EDUCATIONAL QUALIFICATION	85 EVALUATOR'S RATING RS EP VERIFIER'S RATING RS EP ZONAL CENTER								
<b>1.1 Highest Relevant Academic Degree or Educational Attainment</b>									
1.1.1 Doctorate Degree	85	0	0						
1.1.2 Master's Degree	65	0	0						
1.1.3 LLB and MD	65	0	0						
1.1.4 Diploma Course (Above a Bachelor's Degree)	55	0	0						
1.1.5 Bachelor's Degree									
a. Four years	45	0	0						
b. Exceeding four years (45+5 every over 4 years)	50	0	0						
1.1.6 Special Courses									
a. 3-years post-secondary course	30	0	0						
b. Special Courses (Non-degree)	25	0	0						
<b>1.2 Additional equivalent degree earned related to the present position</b>									
1.2.1 Master's Degree	4	0	0						
1.2.2 Bachelor's Degree	3	0	0						
<b>1.3 Additional credits earned</b>									
1.3.1 For every 3-unit credit earned towards an approved higher degree course	1 per 3 units	0	0						
<b>2.0 EXPERIENCE AND LENGTH OF SERVICE</b>	<b>25</b>								
<b>2.1 Academic Experience</b>									
2.1.1 For every year of full-time academic service in a state institution of higher learning	1	0	0						
2.1.2 For every year of full-time academic service in an institution other than state institutions, then SUCs, or Supervised and TESDA Schools; service in a public or private research institution	0.75	0	0						
<b>2.2 Administrative Experience</b>									
For every full-time year of administrative experience as:									
a. President	3	0	0						
b. Vice President	2.5	0	0						
c. Dean/Director/School Superintendent	2	0	0						
d. Principal/Supervisor/Department Chairperson/Head of Unit	1.5	0	0						
<b>2.3.1 For every year of relevant full-time professional and technical experience as:</b>									
a. Manager/Entrepreneur/Consultant	1.5	0	0						

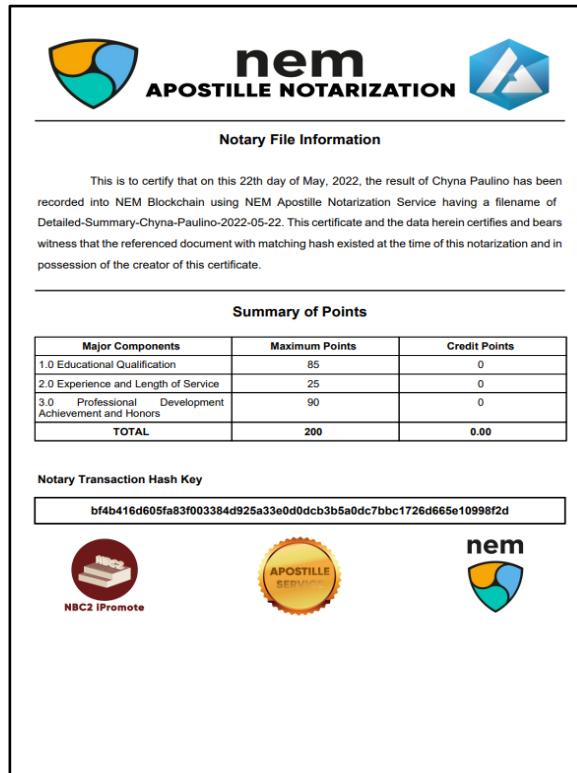
<b>b. Supervisor/Head of Unit</b>	1	0	0						
c. Rank and File	0.5	0	0						
<b>2.3.2 For every year of experience in the public and private sector in education:</b>									
a. Cooperating Teacher	0.75	0	0						
b. Basic Education Teacher	0.5	0	0						
<b>3.0 PROFESSIONAL DEVELOPMENT ACHIEVEMENT AND HONORS</b>	<b>99</b>								
<b>3.1 Discoveries, patented inventions, innovations, publications, and other creative works</b>									
3.1.1 For every cost and time savings innovation, patented invention, publication, and other creative work of an educational, technical, scientific and/or cultural value.	2-7								
a. Inventions (Philippine IPO registered)	0	0							
Patented	7								
Utility Model (UM)	5								
<b>b. Discoveries</b>	0	0							
1. Originality, educational impact, documentation	60% * 7								
2. Evidence of wide dissemination e.g. exhibits, publication	40% * 7								
<b>c. Creative work has to satisfy one or more of the following criteria (International - 7; National - 5; Institutional - 2)</b>									
1. Originality	25% of 2-7								
2. Acceptability and recognition	25% of 2-7								
3. Relevance and value	25% of 2-7								
4. Documentation and evidence of dissemination	25% of 2-7								
<b>d. Research results and innovations consist of improvements/modification made on existing design, process, or product</b>									
1. Use of indigenous materials	20% of 2-7								
2. Relevance and value to education, science, and technology	20% of 2-7								
3. Cost/time/energy/saving	20% of 2-7								
4. Acceptability of peers	20% of 2-7								
<b>5. Dissemination/documentation</b>	20% of 2-7								
a. As authors	Ter.- 7 HS - 5 Elem - 3	0	0						
b. As reviewer	Ter.- 4 HS - 2 Elem - 1	0	0						
c. As translator	Ter.- 4	0	0						

d. As editor	HS - 2 Elem - 1								
Ter.- 3 HS - 2 Elem - 1	0	0							
e. As compiler	Ter.- 2 HS - 1 Elem - 1								
3.1.3 For every scholarly research/monograph/educational book published in a refereed journal/publication including electronic and digital journals included in the lists of CHED, ISI, Harvard, SCOPUS, and other journals of international repute. Note: Books published in local journals refer to institutional research-based publications									
a. International	5	0	0						
b. National	3	0	0						
c. Local	2	0	0						
3.1.4 For every instructional manual/audio-visual	max. of 30 1 (max. of 10)	0	0						
<b>3.3 For expert services, training, and active participation in professional/technical activities</b>									
<b>3.2.1 Training and seminars</b>									
3.2.1.1 For every training course with a duration of at least one month not to exceed the full credit (Per no. of days/30)	max. of 10	0	0						
a. International	5	0	0						
b. National	3	0	0						
c. Local	2	0	0						
3.2.1.2 For participation in conferences, seminars, workshops (must be relevant to one's assignment/field). Points based on the number of days and points are pro-rated. Less than a day (half-day) cannot be considered as seminar	not to exceed 3	0	0						
a. International - 0.6/day	3								
b. National - 0.4/day	2								
c. Local - 0.2/day	1								
3.2.2 Expert service rendered	max. of 20	0	0						
3.2.2.1 For serving as short-term consultant/expert in an activity of an educational, technological, professional scientific or cultural nature (foreign or local) sponsored by government or private agencies:									
a. International	5	0	0						
b. National	3	0	0						
c. Local	2	0	0						
3.2.2.2 For services rendered as trainer, coordinator, lecturer, resource person or guest speaker in conferences, workshops, and/or training courses for professionals									
a. International	5	0	0						
b. National	3	0	0						

<b>c. Local</b>	2	0	0						
3.2.2.3 For expert services as adviser in doctoral dissertation, master's, undergraduate thesis, or their equivalents as requirements for the completion of academic programs	max. of 10	0	0						
a. Doctoral dissertation	1	0	0						
b. Master's thesis	0.5	0	0						
c. Undergraduate thesis	0.25	0	0						
<b>3.2.2.4 For certified services as member of the Board of Examiners in the Professional Regulation Commission (PRC) or other similar bodies</b>	1	0	0						
<b>3.2.2.5 For expert services in accreditation/quality assurance work as member of the Board of Director, Accreditation Committee, Technical Committee, or Consultant Group in regional or national agencies</b>	1	0	0						
<b>3.2.2.6 For every year of expert service as testing officer/assessor in trade skills certification</b>	1	0	0						
3.2.2.7 For expert services as coach/trainer of the students in official activities, and adviser of accredited student organization	not to exceed 1 per year	0	0						
<b>3.3 Membership in professional organizations/honor societies and honor received</b>	max. of 10	0	0						
3.3.1 For current individual membership in relevant professional organization(s)	0	0	0						
<b>d. Learned society</b>									
1. Full member	2	0	0						
2. Associate Member	1	0	0						
3. Honor society	1	0	0						
4. Scientific society	1	0	0						
<b>d. Professional</b>									
1. Officer	1	0	0						
2. Member	0.5	0	0						
<b>3.3.2 For academic honors earned:</b>									
<b>3.3.2.1 Undergraduate Degree</b>									
a. Summa cum Laude	5	0	0						
b. Magna cum Laude	3	0	0						
c. Cum Laude	1	0	0						
<b>3.3.2.2 Graduate Degree</b>									
a. Highest Honors/With Distinction or equivalent	3								
<b>3.3.3 Scholarship/Fellowship. This may be degree or non-degree granting</b>									
a. International, competitive									
1. Doctorate	5	0	0						
2. Masters	4	0	0						
3. Non-degree	3	0	0						
<b>3.3.4 International, non-competitive</b>									
1. Doctorate	3	0	0						
2. Masters	2	0	0						
3. Non-degree	1	0	0						

c. National/Regional, competitive				
1. Doctorate	3	0	0	
2. Master's	2	0	0	
3. Non-degree	1	0	0	
d. National/Regional, non-competitive				
1. Doctorate	2	0	0	
2. Master's	1	0	0	
e. Local, competitive, or non-competitive	1	0	0	
3.4 Awards of distinction received in recognition of achievements in relevant areas of specialization/profession and/or assignment of faculty concerned				
International	5	0	0	
National/Regional	3	0	0	
Local/Institution-wide	2	0	0	
3.5 Community outreach				
	max of 5			
3.5.1 For every year of participation in service-oriented projects in the community	1	0	0	
3.6 Professional examinations				
3.6.1 For every relevant licensure and other professional examinations passed	max of 10			
a. Engineering, Accounting, Medicine, Law, Teacher's Board, etc	5	0	0	
b. Career Executive Service Officers Examiner/Career Service Executive Association	3	0	0	
c. Seaman Certificate Master Electrician/Master Plumber Certificate, etc., Plant Mechanic Certificate, Professional Radio Operator Certificate	2	0	0	
d. IT proficiency certification	2	0	0	
e. National Certificates (NCC) Trade Skill Certificates	1	0	0	

**Figure 4.17** Screenshot of Detailed Summary PDF File



**Figure 4.18** Screenshot of NEM Apostille Notarization Certificate PDF File

TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES  
Ayala Boulevard, Ermita, Manila

REVISED COMMON CRITERIA FOR EVALUATION OF FACULTY  
NBC - 461  
8th Cycle (July 1, 2016 - June 30, 2019)

NAME OF FACULTY : Chyna Paulino  
PRESENT RANK : Instructor I

COLLEGE : College of Engineering  
DEPARTMENT : Electronics Engineering Department

1.0 EDUCATIONAL QUALIFICATION	85	EVALUATOR'S RATING		VERIFIER'S RATING		ZONAL CENTER
		RS	EP	RS	EP	
<b>1.1 Highest Relevant Academic Degree or Educational Attainment</b>						
1.1.1 Doctorate Degree	85	0	0			
1.1.2 Master's Degree	65	0	0			
1.1.3 LLB and MD	65	0	0			
1.1.4 Diploma Course (Above a Bachelor's Degree)	55	0	0			
1.1.5 Bachelor's Degree						
a. Four years	45	0	0			
b. Exceeding four years (45+5 every over 4 years)	50	0	0			
1.1.6 Special Courses						
a. 3-years post-secondary course	30	0	0			
b. Shorter Courses (Non-university)	25	0	0			

**Figure 4.19** Screenshot of Detailed Summary Result Print Page

TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES  
Ayala Boulevard, Ermita, Manila

REVISED COMMON CRITERIA FOR EVALUATION OF FACULTY  
NBC - 461  
8th Cycle (July 1, 2016 - June 30, 2019)

Recommendation of Area Lacking Points

NAME OF FACULTY : Chyna Paulino  
PRESENT RANK : Instructor I

COLLEGE : College of Engineering  
DEPARTMENT : Electronics Engineering Department

1.0 EDUCATIONAL QUALIFICATION	85	EVALUATOR'S RATING		VERIFIER'S RATING		ZONAL CENTER
		RS	EP	RS	EP	
<b>1.1 Highest Relevant Academic Degree or Educational Attainment</b>						
1.1.1 Doctorate Degree	85	0	0			
1.1.2 Master's Degree	65	0	0			
1.1.3 LLB and MD	65	0	0			
1.1.4 Diploma Course (Above a Bachelor's Degree)	55	0	0			
1.1.5 Bachelor's Degree						
a. Four years	45	0	0			
b. Exceeding four years (45+5 every over 4 years)	50	0	0			
1.1.6 Special Courses						

**Figure 4.20** Screenshot of Recommendation of Area Lacking Points Print Page

NBC2 iPromote

Files Archive

Category 1 Category 2 Category 3 All Files

**Education Qualification**

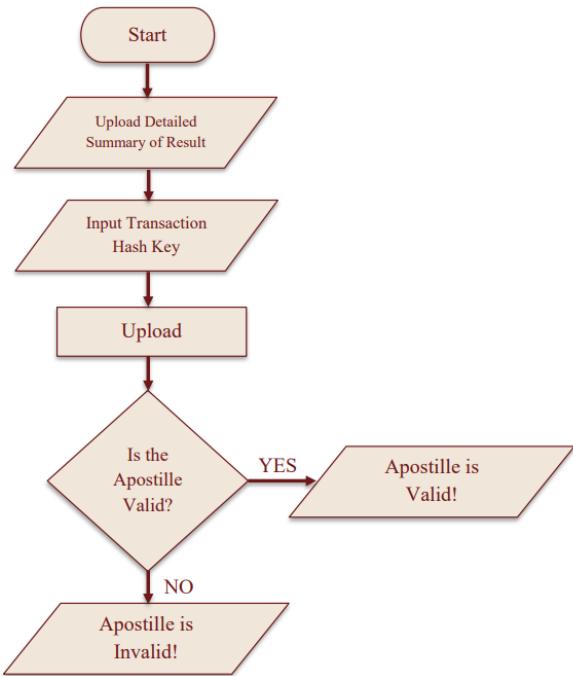
Preview PDF Download Delete

Select File Name Date

**Figure 4.21** Files Archive Page of the Web Application

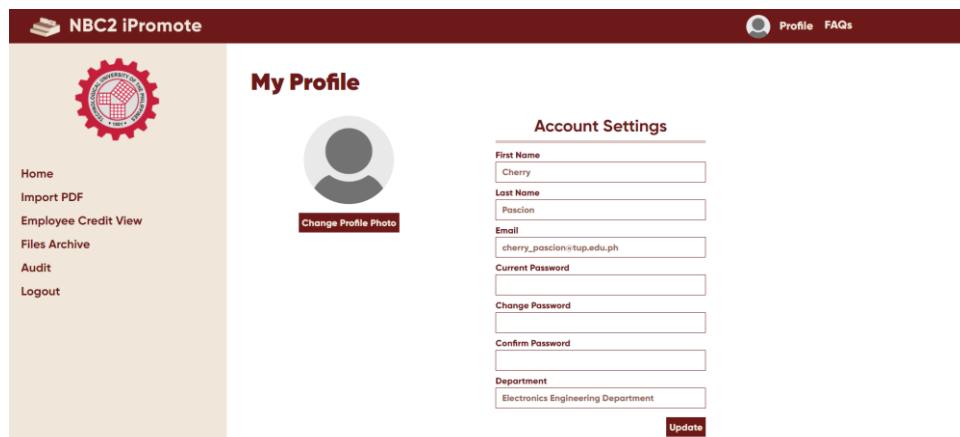
Figure 4.21 shows the interface of the files archive page. The Files Archive Page contains all the documents uploaded by the user. The user has the option to download, preview a PDF file, and delete. The documents are sorted according to their corresponding category.

**Figure 4.22 Audit Page of the Web Application**

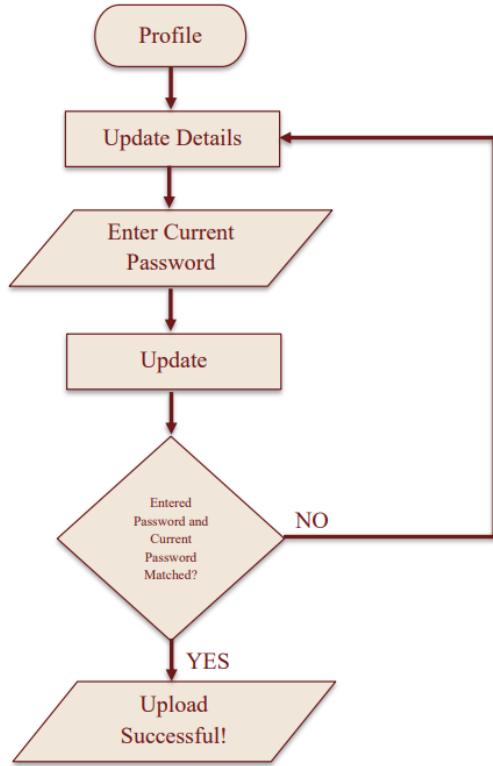


**Figure 4.23 Flowchart for Audit Page**

Figure 4.23 shows the flowchart for verifying the Apostille of the detailed summary of results PDF file. After downloading a compilation of their results that is contained in a zip file, the user will have to upload the detailed summary of results PDF file on the Audit page as well as input its corresponding notary transaction hash key that can be found on the NEM Apostille certificate, then press the ‘Upload’ button. The system will then determine whether the submitted data were valid or invalid. It will output ‘Apostille is Valid!’ or ‘Apostille is Invalid!’ if the Apostille is valid or invalid, respectively.



**Figure 4.24** User Profile Page of the Web Application



**Figure 4.25** Flowchart for Updating/Changing User Details

Figure 4.25 presents the flowchart for updating or changing user details.

On the User Profile page, the user may update their profile photo and/or change their password, and in order to do so, they must enter their current password. The system will output ‘Upload Successful!’ if the profile photo was successfully uploaded or updated, and ‘Password Updated!’ if the password was successfully updated in the database.

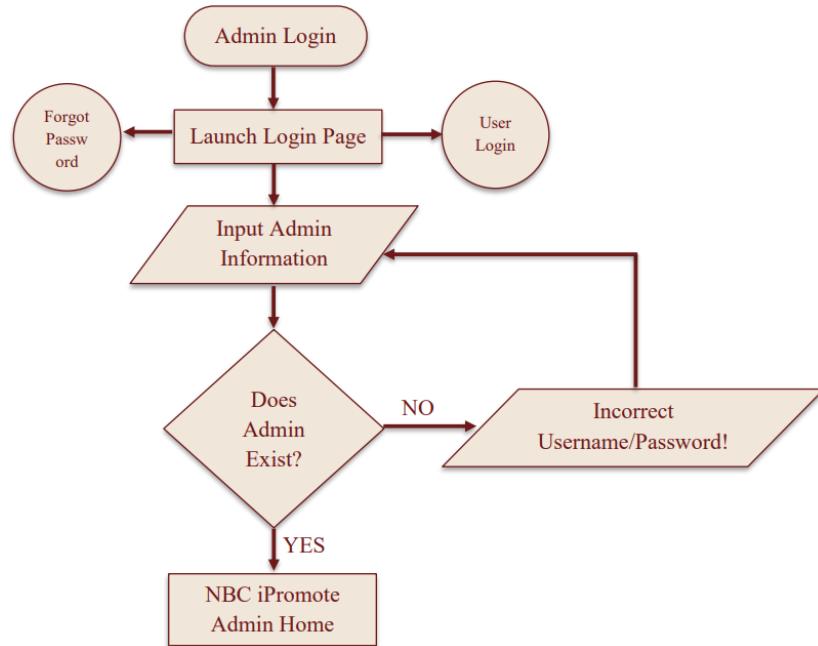
The screenshot shows the NBC2 iPromote web application's FAQ section. At the top, there is a navigation bar with links for Profile and FAQs. On the left, a sidebar contains links for Home, Import PDF, Employee Credit View, Files Archive, Audit, and Logout. The main content area is titled "Frequently Asked Questions (FAQs)" and lists several questions with dropdown arrows:

- How to use NBC2 iPromote?
- What does the 'Status' on 'Import PDF' means?
- What should I expect if my uploaded file's status is "Pending"?
- What if the document I uploaded was issued on a date that is not within the current cycle?
- How to use the scanner?
- Document was not saved on the database and wasn't given points
- Why is my Notary Transaction Hashkey different every time I click the 'Download Results' button?
- How to verify the Apostille of Detailed Summary PDF file?
- Can I still check if my previously downloaded Detailed Summary Result is valid or not on the 'Audit' page?

**Figure 4.26** User/Faculty Member Frequently Asked Questions (FAQs) Page of the Web Application

The screenshot shows the NBC2 iPromote web application's admin login page. At the top, there is a navigation bar with links for Home, About, Guide, Register, and Login. The main content area features a large banner image of a building. Overlaid on the banner is a white login form titled "Admin Login". The form includes fields for "Username" and "Password", and a "LOGIN" button.

**Figure 4.27** Admin Login Page of the Web Application



**Figure 4.28** Flowchart for Admin Login

Figure 4.28 shows the flowchart for admin login. The login system for admins is similar to the login system for users or faculty members, but instead of entering an email address, the admin must input a username which is set to default as ‘TUPM-XX’, wherein  $XX$  is the abbreviation of the department they are head of (e.g. TUPM-ECE, TUPM-ME). They will be re-directed to the Admin Home page after successfully logging in.

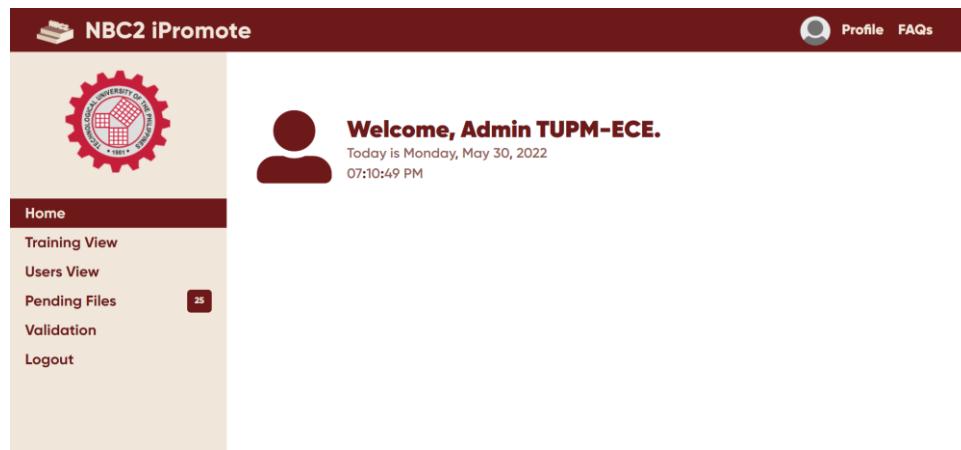


Figure 4.29 Admin Home Page of the Web Application



Figure 4.30 Training View Page of the Web Application

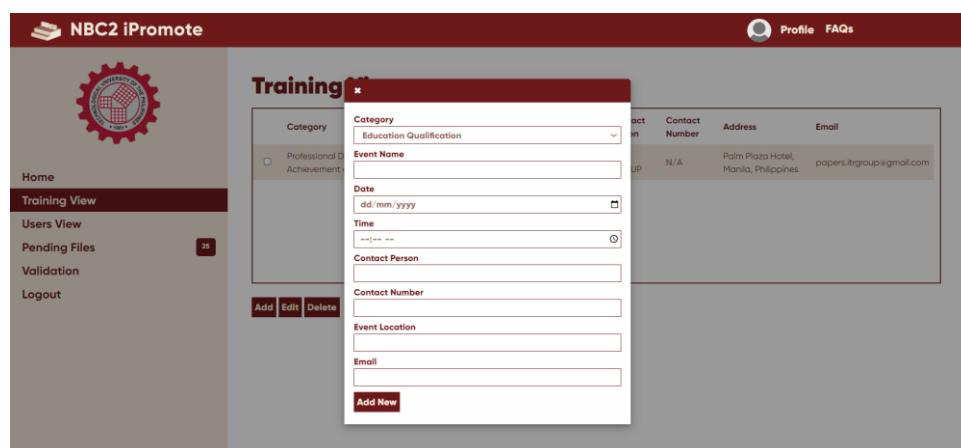
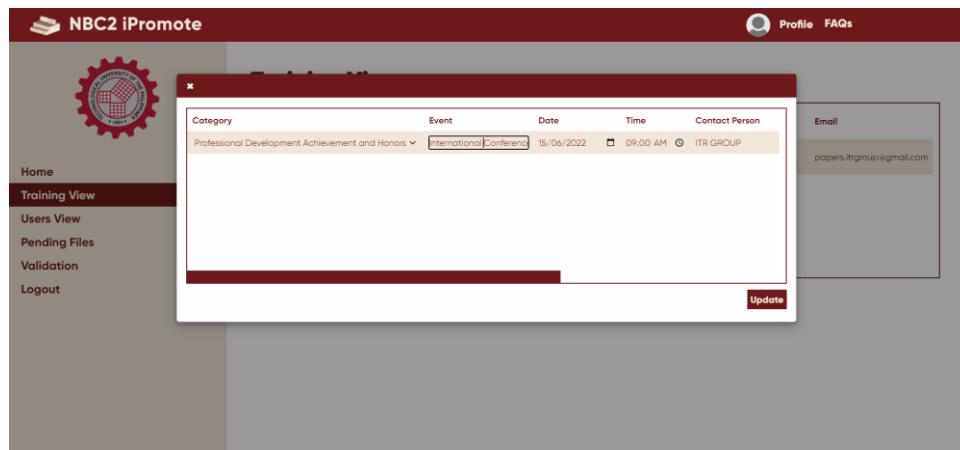


Figure 4.31 Screenshot of Adding an Available Training



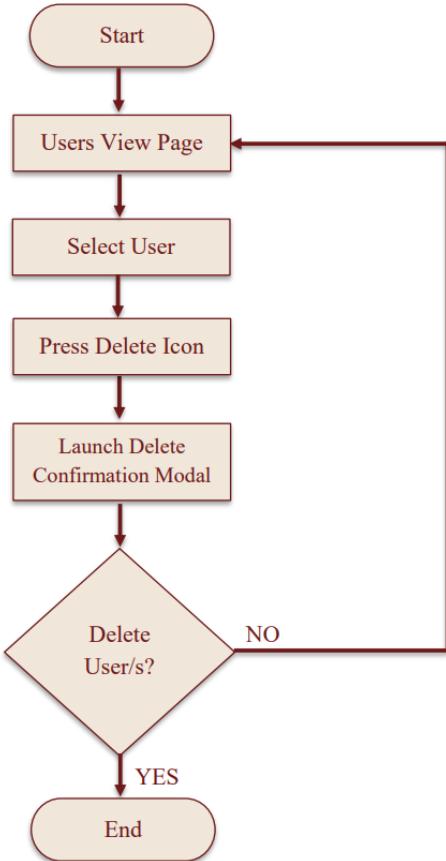
**Figure 4.32** Screenshot of Editing/Updating a Training

First Name	Last Name	Email	Department	Pseudocode	Total Points	Rank
Cherry	Pascion	cherry_pascion@tup.edu.ph	Electronics Engineering Department	2X255	10.00	Instructor I
JOHN PETER	RAMOS	johnpeter_ramos@tup.edu.ph	Electronics Engineering Department	H497X	0.00	Instructor I
Timothy	Amado	timothy_amado@tup.edu.ph	Electronics Engineering Department	I366I	9984	Assistant Professor II
	Leon		Electronics			Assistant

**Figure 4.33** Users View Page of the Web Application

Are you sure you want to delete the following user/s? This action cannot be undone!

**Figure 4.34** Screenshot of Deleting a User/s



**Figure 4.35** Flowchart for Deleting a User/s

Figure 4.35 shows the flowchart for deleting a user/s. The admin can delete a user and all of their data from the database on the Users View page. The admin can select multiple users and then click the delete icon. Before proceeding, a delete confirmation message will appear. If the admin presses the confirm button, all of the data and files uploaded by the selected user/s will be removed. However, pressing the cancel button closes the delete confirmation modal window.

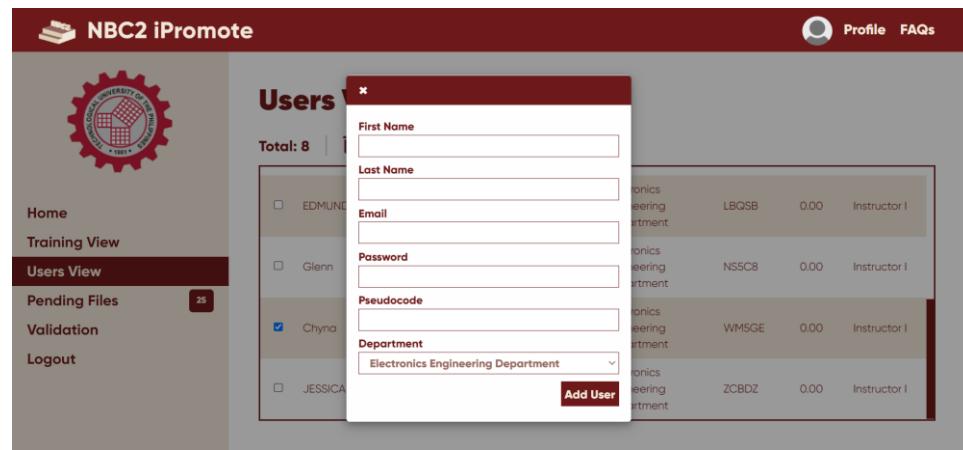


Figure 4.36 Screenshot of Adding a User/s

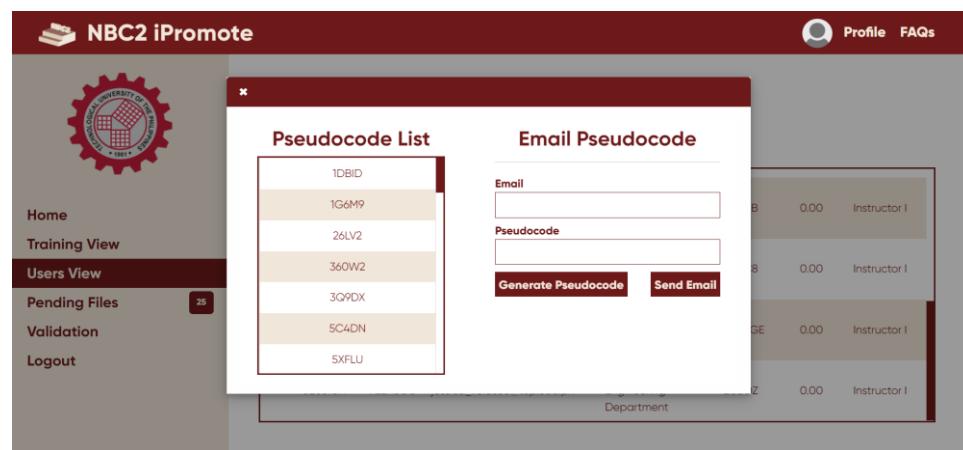
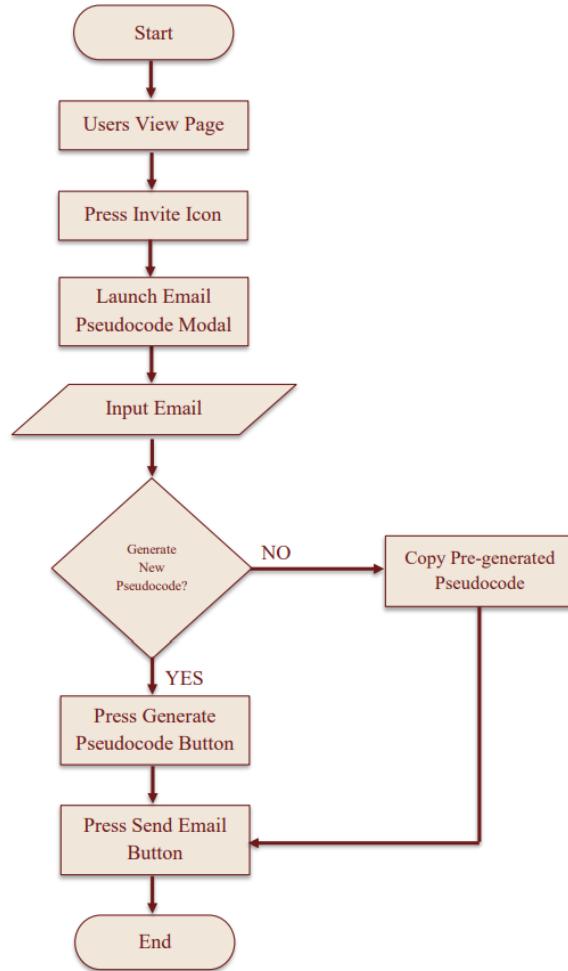
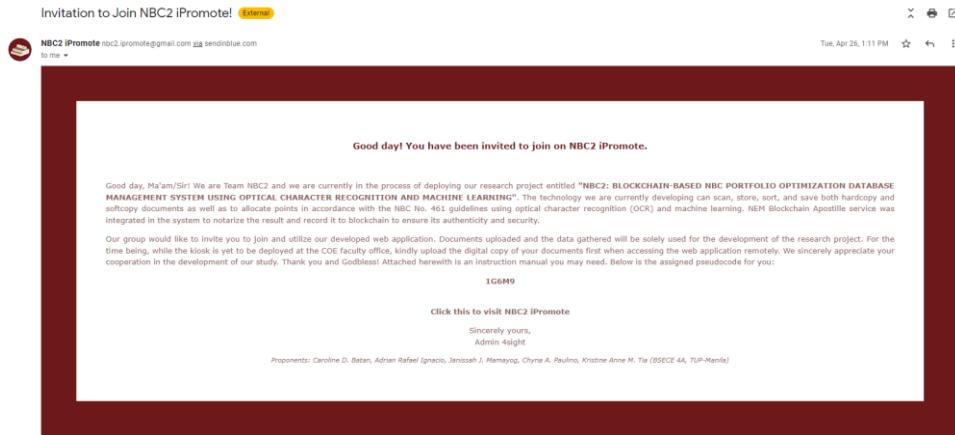


Figure 4.37 Screenshot of Sending an Invitation Email



**Figure 4.38** Flowchart for Sending an Invitation Email

Figure 4.38 shows the flowchart for sending an invitation email. By pressing the invite icon, the email pseudocode modal window will appear. The admin must enter the email address to whom they want to send the invitation email to and a pseudocode. The admin may use the pseudocode from a list of pre-generated ones or generate a new pseudocode by pressing the ‘Generate Pseudocode’ button. After entering the necessary information, pressing the ‘Send Email’ button will send a message which contains the pseudocode to the entered email address as shown in Figure 4.39.

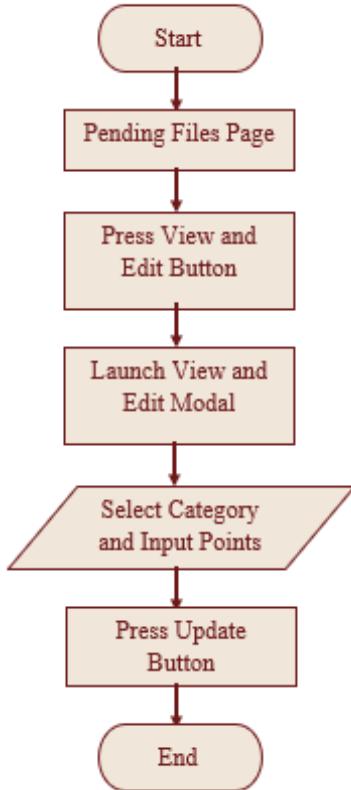


**Figure 4.39** Screenshot of an Invitation Email

Faculty Name	Filename	Status	Action	Action
Cherry Pascion	Doc2.pdf.62923f03e0fc3692528793.pdf	PENDING (DNWC)	View and Edit	Decline
Cherry Pascion	Doc1.pdf.62923e7e479710.24883827.pdf	PENDING (DNWC)	View and Edit	Decline
JOHN PETER RAMOS	4DIPLOMA.pdf.628d28c23f9050.69169757.pdf	PENDING (DNWC)	View and Edit	Decline
JOHN PETER	CertificateofAppreciation-.pdf	PENDING	View and	

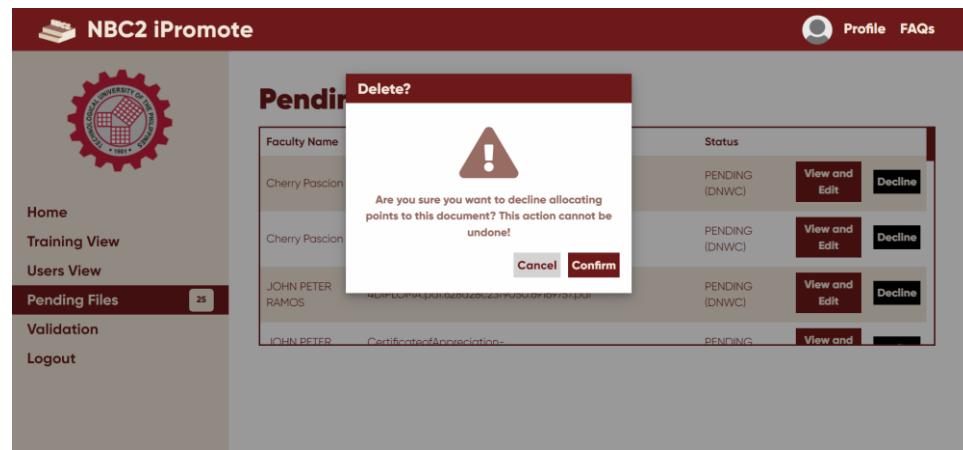
**Figure 4.40** Pending Files Section Page of the Web Application

**Figure 4.41** Screenshot of View and Edit Modal Window

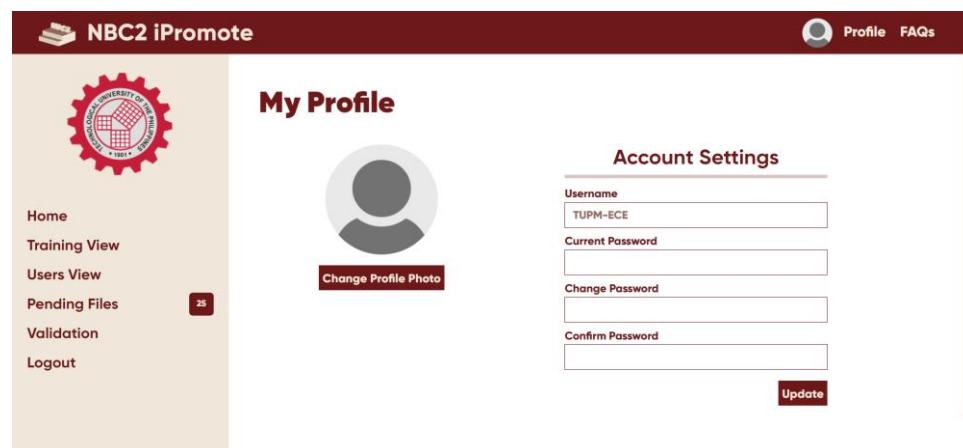


**Figure 4.42** Flowchart for Allocating Points and Classifying the Category of a Pending File

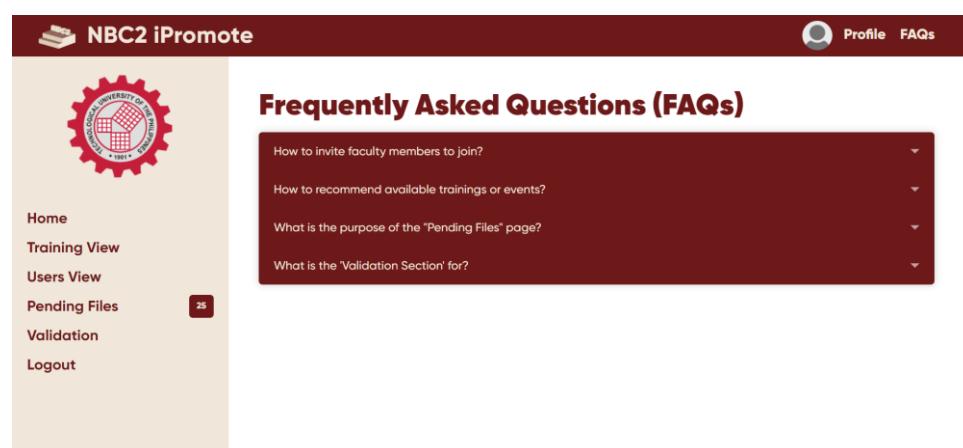
Figure 4.41 illustrates the flowchart of allocating points and classifying the category of a pending file. On the Pending Files page, the admin will have to press the ‘View and Edit’ button that corresponds to the file they wanted to assess. Doing so will open the View and Edit modal window which displays the file. After reviewing the file, the admin must select the appropriate main category and subcategory as well as the points, then press the ‘Update’ button. This will update the status, points, category of the file from the database.



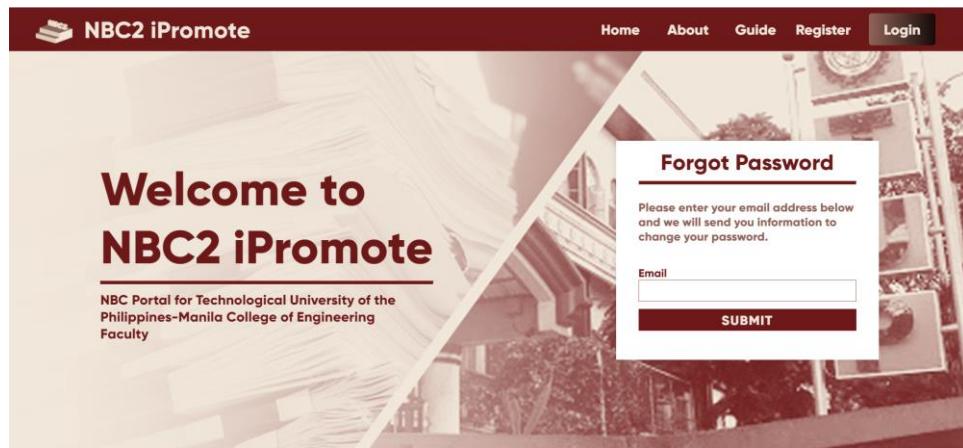
**Figure 4.43** Screenshot of Decline Modal Window



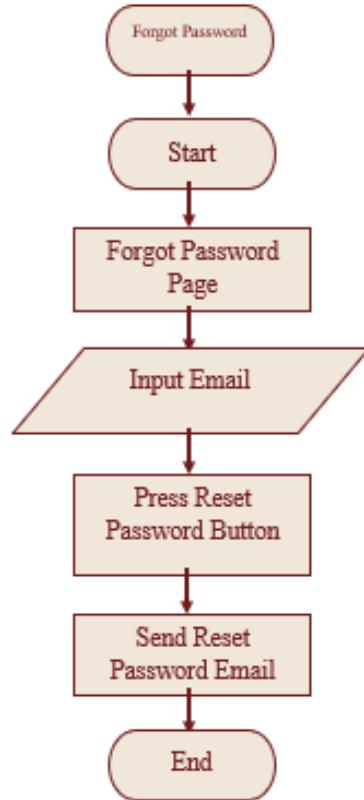
**Figure 4.44** Admin Profile Page of the Web Application



**Figure 4.45** Admin Frequently Asked Questions (FAQs) Page of the Web Application

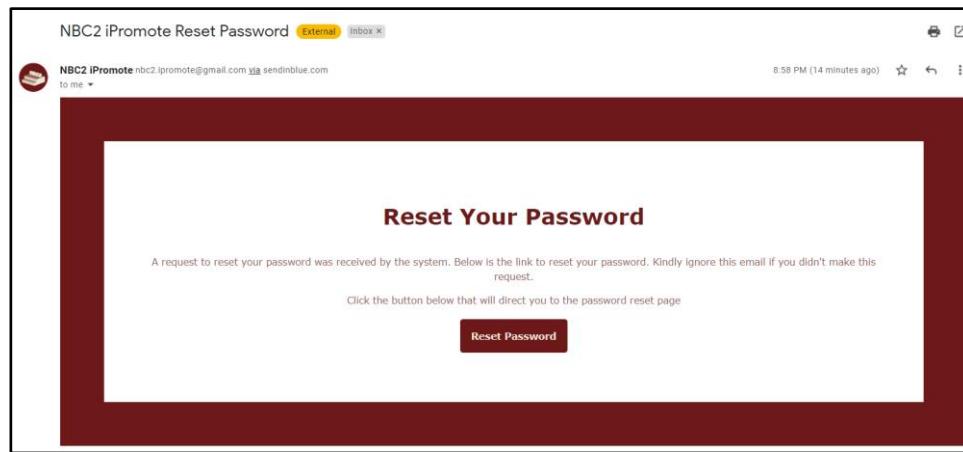


**Figure 4.46** Forgot Password Page of the Web Application

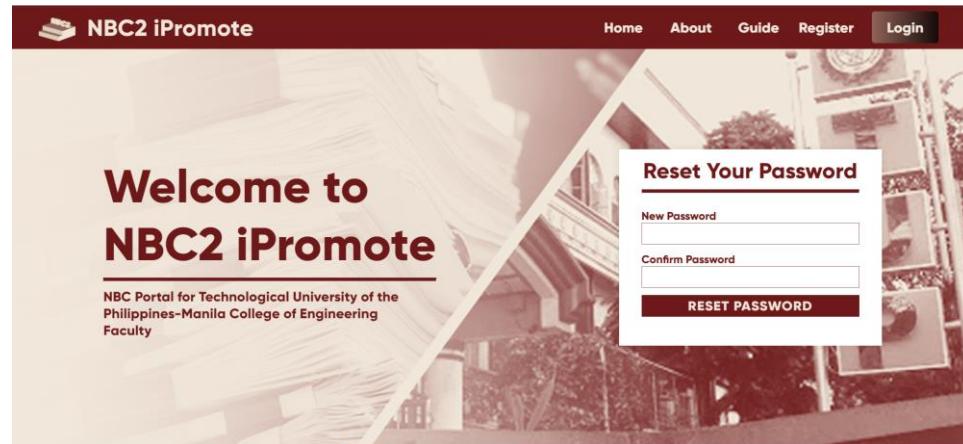


**Figure 4.47** Flowchart for Sending Reset Password Request Email

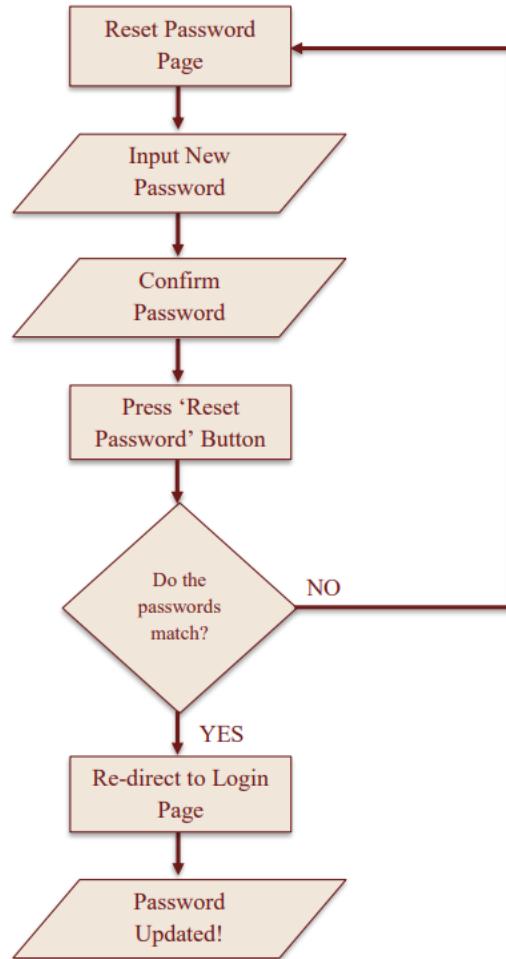
Figure 4.47 shows the flowchart for sending a reset password request email. The user/faculty member may request to reset their password by entering the email they used when they created an account then pressing the ‘Reset Password’ button. This will send a reset password email to the entered email address which contains a link that will direct the user to a reset password page.



**Figure 4.48** Screenshot of a Reset Password Request Email



**Figure 4.49** Reset Password Page of the Web Application



**Figure 4.50** Flowchart for Resetting Password

Figure 4.50 presents the flowchart for resetting password. After clicking the button provided in the email, the user will be directed to the Reset Password page. A new password must be entered and re-entered on the confirm password text field, then click the 'Reset Password' button. The system would verify to see if the passwords entered match, and if they do, the user will be redirected to the login page and a 'Password Updated!' message will be displayed. Otherwise, the user must re-enter the passwords that match.

#### **4.2.3 College of Engineering Faculty Office**

The project deployment was conducted in Technological University of the Philippines - Manila, at the second floor of the College of Engineering building where the Faculty Office is located. The said deployment was regulated last May 12, 2022, prior to data gathering. The researchers of the project were accompanied by the Head of Electronics Engineering Department and Dean of the College of Engineering. The kiosk was transported by an automobile, and was assembled inside the office, following the reinforced health protocols of the university. It was placed near an outlet and doorway of the area, where faculty members can easily access it. The system was connected to the Wi-Fi network of the office for Internet accessibility of the web application. The images below show the actual deployment of the project.



**Figure 4.51** Setting up the kiosk inside the faculty office

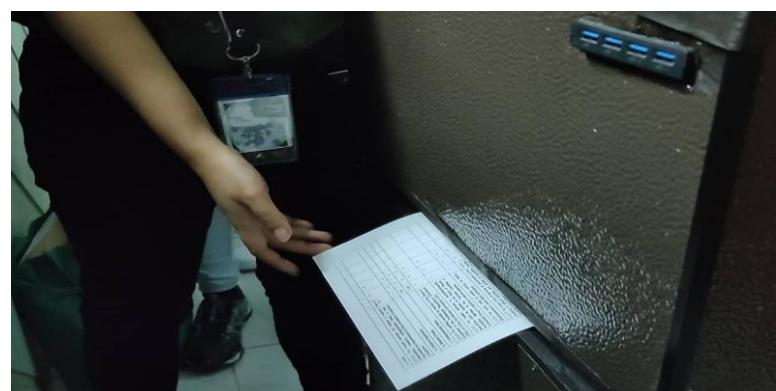
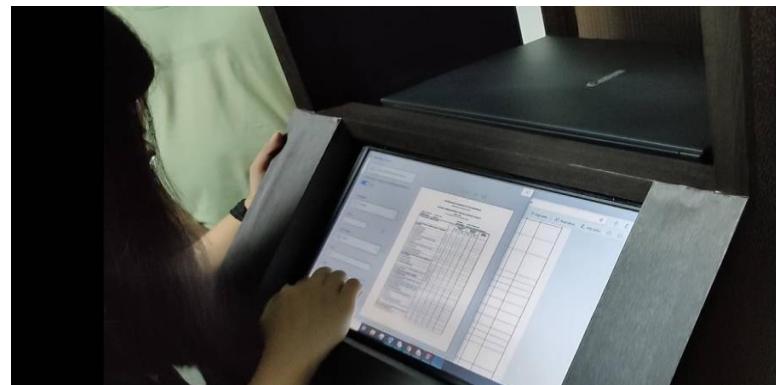


**Figure 4.52** Setting up desktop UI for ease of accessibility





**Figure 4.53** Walk-through with the department head of the web application's UI  
and assisting in uploading the documents



**Figure 4.54** Printing of notarized detailed summary of points

#### 4.2.4 Machine Learning Model

##### 4.2.4.a Collected Documents

The files gathered from the Electronics and Electrical Engineering departments are 540 documents in total utilized as our datasets for training and testing. The documents were categorized by educational qualification with 26 documents, experience and length of service with 0 document, and professional development achievement and honors with 441 documents. The remaining documents 73 documents were not considered to be part of any of the categories. The faculty members were reached via MS Teams with the documents collected via Google Forms and Google Drive.

**Table 4.1.** Documents Collected from TUP-College of Engineering

Main Category	Subcategory	Specific category	Count	Count per subcategory
1 - Educational Qualification	1.1	1.1.2	11	25
		1.1.5.b	14	
	1.2	1.2.2	1	1
	1.3	no data	0	0
2 - Experience and Length of Service	2.1	no data	0	0
	2.2	no data	0	0
	2.3	no data	0	0
3 - Professional Development Achievement and Honors	3.1	3.1.3.a	25	56
		3.1.3.c	31	
	3.2	3.2.1.1.a	5	304
		3.2.1.1.b	2	
		3.2.1.1.c	2	
		3.2.1.2	20	
		3.2.1.3.a	19	
		3.2.1.3.b	111	
		3.2.1.3.c	109	
		3.2.2.1.c	1	
		3.2.2.2.a	6	
		3.2.2.2.b	12	
		3.2.2.2.c	10	
		3.2.2.3.c	6	
		3.2.2.7	1	
	3.3	3.3.1.a.1	6	28
		3.3.1.c	3	
		3.3.1.d.1	18	

		3.3.2.1.c	1	
3.4	3.4.b	2		4
	3.4.c	2		
	3.5	3.5.1	33	
3.6	3.6.1.a	15		16

#### 4.2.4.b Dataset Sampling Techniques

Table 4.2 shows the oversampling and undersampling of documents of specific categories. The categories that were performed with oversampling or duplication of data were 1.1.2, 1.1.5, 1.2.2, 3.1.3, 3.2.2, 3.3.1, 3.3.2, 3.4, 3.5.1 and 3.6.1. Undersampling or removal of data were performed on category 3.2.1. The removed documents from category 3.2.1 can be used to test the machine learning model. The final count to be used for the training and testing dataset is 704.

**Table 4.2.** Combined Sampling Techniques

Combined Undersampling and Oversampling				
Semiprecise Categories	Count	Duplicate (Oversampling)	Removed (Undersampling)	Final Count
<b>1.1</b>				
1.1.1				
1.1.2	11	44		<b>55</b>
1.1.3				
1.1.4				
1.1.5	14	42		<b>56</b>
1.1.6				
<b>1.2</b>				
1.2.1				
1.2.2	1	14		<b>15</b>
<b>1.3</b>				
1.3.1				
<b>2.1</b>				
2.1.1				
2.1.2				
<b>2.2</b>				
<b>2.3</b>				
2.3.1				
2.3.2				
<b>3.1</b>				
3.1.1				
3.1.2				
3.1.3	56	56		<b>112</b>
3.1.4				
<b>3.2</b>				
3.2.1	268		148	<b>120</b>
3.2.2	36	36		<b>72</b>

<b>3.3</b>				
3.3.1	27	54		<b>81</b>
3.3.2	1	14		<b>15</b>
3.3.3				
<b>3.4</b>	4	44		<b>48</b>
<b>3.5</b>				
3.5.1	33	33		<b>66</b>
<b>3.6</b>				
3.6.1	16	48		<b>64</b>
<b>Total</b>	<b>467</b>			<b>704</b>
				Train (80%)
				Test (20%)
				<b>563</b>
				<b>141</b>

#### 4.2.4.c Machine Learning using Weka in Java

The whole dataset was randomly divided into 80% for the training dataset and 20% for the testing dataset. The 10-fold cross-validation was also applied to the training dataset. The training dataset contained 563 instances, while the test dataset contained 141 instances. The following figures showed the evaluation results and confusion matrices for the built classifier on the 10-fold cross validation, training, and testing dataset.

===== 10-fold cross-validation =====		
Correctly Classified Instances	497	88.2771 %
Incorrectly Classified Instances	66	11.7229 %
Kappa statistic	0.8681	
Mean absolute error	0.0095	
Root mean squared error	0.0891	
Relative absolute error	13.8626 %	
Root relative squared error	48.2042 %	
Total Number of Instances	563	

(a)

== Detailed Accuracy By Class ==										
	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class	
?	0.023	0.000	?	?	?	?	?	?	1.1.1	
1.000	0.004	0.958	1.000	0.979	0.977	1.000	0.997	0.997	1.1.2	
?	0.000	?	?	?	?	?	?	?	1.1.3	
?	0.000	?	?	?	?	?	?	?	1.1.4	
0.952	0.000	1.000	0.952	0.976	0.974	1.000	0.998	0.998	1.1.5	
?	0.000	?	?	?	?	?	?	?	1.1.6	
?	0.000	?	?	?	?	?	?	?	1.2.1	
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.2.2	
?	0.000	?	?	?	?	?	?	?	1.3.1	
?	0.000	?	?	?	?	?	?	?	2.1.1	
?	0.000	?	?	?	?	?	?	?	2.1.2	
?	0.000	?	?	?	?	?	?	?	2.2	
?	0.000	?	?	?	?	?	?	?	2.3.1	
?	0.000	?	?	?	?	?	?	?	2.3.2	
?	0.000	?	?	?	?	?	?	?	3.1.1	
?	0.000	?	?	?	?	?	?	?	3.1.2	
0.955	0.004	0.977	0.955	0.966	0.959	1.000	0.998	0.998	3.1.3	
?	0.000	?	?	?	?	?	?	?	3.1.4	
0.848	0.042	0.796	0.848	0.821	0.785	0.974	0.916	0.916	3.2.1	
0.850	0.038	0.729	0.850	0.785	0.760	0.975	0.728	0.728	3.2.2	
0.896	0.000	1.000	0.896	0.945	0.940	0.998	0.988	0.988	3.3.1	
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	3.3.2	
?	0.000	?	?	?	?	?	?	?	3.3.3	
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	3.4	
0.727	0.020	0.800	0.727	0.762	0.738	0.956	0.822	0.822	3.5.1	
0.722	0.000	1.000	0.722	0.839	0.838	0.995	0.967	0.967	3.6.1	
Weighted Avg.	0.883	0.014	0.911	0.883	0.894	0.881	0.988	0.935		

(b)

**Figure 4.55** (a) Summary of 10-fold cross-validation results on the training set; (b) Detailed accuracy by class

**Figure 4.56** Confusion matrix for 10-fold cross-validation on the training set

```
===== Evaluation from the train set =====

Results
=====

Correctly Classified Instances      527          93.6057 %
Incorrectly Classified Instances   36           6.3943 %
Kappa statistic                   0.9281
Mean absolute error               0.005
Root mean squared error          0.0621
Relative absolute error          7.3145 %
Root relative squared error     33.6071 %
Total Number of Instances        563
```

(a)

== Detailed Accuracy By Class ==											
	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class		
?	0.023	0.000	?	?	?	?	?	?	1.1.1		
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.1.2		
?	0.000	?	?	?	?	?	?	?	1.1.3		
?	0.000	?	?	?	?	?	?	?	1.1.4		
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.1.5		
?	0.000	?	?	?	?	?	?	?	1.1.6		
?	0.000	?	?	?	?	?	?	?	1.2.1		
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.2.2		
?	0.000	?	?	?	?	?	?	?	1.3.1		
?	0.000	?	?	?	?	?	?	?	2.1.1		
?	0.000	?	?	?	?	?	?	?	2.1.2		
?	0.000	?	?	?	?	?	?	?	2.2		
?	0.000	?	?	?	?	?	?	?	2.3.1		
?	0.000	?	?	?	?	?	?	?	2.3.2		
?	0.000	?	?	?	?	?	?	?	3.1.1		
?	0.000	?	?	?	?	?	?	?	3.1.2		
0.955	0.000	1.000	0.955	0.977	0.973	1.000	1.000	1.000	3.1.3		
?	0.000	?	?	?	?	?	?	?	3.1.4		
0.913	0.019	0.903	0.913	0.908	0.890	0.992	0.971	0.971	3.2.1		
1.000	0.022	0.845	1.000	0.916	0.909	0.999	0.990	0.990	3.2.2		
0.896	0.000	1.000	0.896	0.945	0.940	1.000	0.999	0.999	3.3.1		
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	3.3.2		
?	0.000	?	?	?	?	?	?	?	3.3.3		
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	3.4		
0.891	0.006	0.942	0.891	0.916	0.907	0.997	0.979	0.979	3.5.1		
0.796	0.000	1.000	0.796	0.887	0.883	0.997	0.979	0.979	3.6.1		
Weighted Avg.	0.936	0.006	0.962	0.936	0.947	0.941	0.998	0.990			

(b)

**Figure 4.57** (a) Summary of evaluation results on the training set; (b)  
Detailed accuracy by class

== Confusion Matrix ==																								<- classified as		
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	a = 1.1.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	b = 1.1.2	
0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c = 1.1.3	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	d = 1.1.4	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	e = 1.1.5	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	f = 1.1.6	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	g = 1.2.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	h = 1.2.2	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	i = 1.3.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	j = 2.1.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	k = 2.1.2	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	l = 2.2	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	m = 2.3.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	n = 2.3.2	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o = 3.1.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	p = 3.1.2	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	q = 3.1.3	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	r = 3.1.4	
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	s = 3.2.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	t = 3.2.2	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	u = 3.3.1	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	v = 3.3.2	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	w = 3.3.3	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	x = 3.4	
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	y = 3.5.1	
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	z = 3.6.1	

**Figure 4.58** Confusion matrix for the training set

===== Evaluation using test set =====		
Results		
=====		
Correctly Classified Instances	133	94.3262 %
Incorrectly Classified Instances	8	5.6738 %
Kappa statistic	0.9359	
Mean absolute error	0.0048	
Root mean squared error	0.0636	
Relative absolute error	6.9532 %	
Root relative squared error	34.5103 %	
Total Number of Instances	141	

(a)

==== Detailed Accuracy By Class ===										
	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class	
?	0.000	?	?	?	?	?	?	?	1.1.1	
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.1.2	
?	0.000	?	?	?	?	?	?	?	1.1.3	
?	0.000	?	?	?	?	?	?	?	1.1.4	
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.1.5	
?	0.000	?	?	?	?	?	?	?	1.1.6	
?	0.000	?	?	?	?	?	?	?	1.2.1	
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.2.2	
?	0.000	?	?	?	?	?	?	?	1.3.1	
?	0.000	?	?	?	?	?	?	?	2.1.1	
?	0.000	?	?	?	?	?	?	?	2.1.2	
?	0.000	?	?	?	?	?	?	?	2.2	
?	0.000	?	?	?	?	?	?	?	2.3.1	
?	0.000	?	?	?	?	?	?	?	2.3.2	
?	0.000	?	?	?	?	?	?	?	3.1.1	
?	0.000	?	?	?	?	?	?	?	3.1.2	
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	3.1.3	
?	0.000	?	?	?	?	?	?	?	3.1.4	
0.821	0.009	0.958	0.821	0.885	0.863	0.979	0.945	0.945	3.2.1	
1.000	0.031	0.750	1.000	0.857	0.852	0.988	0.885	0.885	3.2.2	
0.857	0.000	1.000	0.857	0.923	0.919	0.999	0.991	0.991	3.3.1	
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	3.3.2	
?	0.000	?	?	?	?	?	?	?	3.3.3	
1.000	0.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	3.4	
1.000	0.023	0.786	1.000	0.880	0.876	0.999	0.992	0.992	3.5.1	
0.900	0.000	1.000	0.900	0.947	0.945	1.000	1.000	1.000		
Weighted Avg.	0.943	0.006	0.954	0.943	0.944	0.939	0.995	0.978		

(b)

Figure 4.59 (a) Summary of evaluation results on the testing set; (b)

Detailed accuracy by class

==== Confusion Matrix ====																										
a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	<- - classified as
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	a = 1.1.1
0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	b = 1.1.2
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	c = 1.1.3
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	d = 1.1.4
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	e = 1.1.5
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	f = 1.1.6
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	g = 1.2.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	h = 1.2.2
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	i = 1.3.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	j = 2.1.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	k = 2.1.2
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	l = 2.2
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	m = 2.3.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	n = 2.3.2
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o = 3.1.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	p = 3.1.2
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	q = 3.1.3
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	r = 3.1.4
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	s = 3.2.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	t = 3.2.2
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	u = 3.3.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	v = 3.3.2
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	w = 3.3.3
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	x = 3.4
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	y = 3.5.1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	z = 3.6.1

**Figure 4.60** Confusion matrix for the testing set

Table 4.3 showed the summary of results for the 10-fold cross-validation, training set and testing set. The 10-fold cross-validation on training set had an accuracy of 88.2771%, with weighted averages of precision with 0.911, recall with 0.883, and F1-score with 0.896. The evaluation results on training set had an accuracy of 93.6057%, with weighted averages of precision with 0.962, recall with 0.936, and F1-score with 0.949. The test set had an accuracy of 94.3262%, with weighted averages of precision with 0.954, recall with 0.943, and F1-score with 0.948 on its evaluation results.

**Table 4.3** Summary of results

	Correctly classified instances	Incorrectly classified instances	Weighted Avg: Precision	Weighted Avg: Recall	Weighted Avg: F1-Score
<b>10-Fold Cross-validation (Training set, 563)</b>	497 (88.2771%)	59 (11.7229%)	0.911	0.883	0.896
<b>Training Set (563)</b>	527 (93.6057%)	36 (6.3943%)	0.962	0.936	0.949
<b>Testing Set (141)</b>	133 (94.3262%)	18 (5.6738%)	0.954	0.943	0.948

### 4.3 Experimental Results and Data Analysis

#### 4.3.1 File Categorization Result

Table 4.4 showed the confusion matrix for the category of documents uploaded by the faculty members with four classes. The first three classes were the main categories of NBC, and the last class was for documents that were not under any main categories. The summary of results for performance metrics of the confusion matrix shown in Table 4.5 showed that the weighted averages were 0.882, 0.833, 0.917, and 0.845 for accuracy, precision, recall, and F1 score, respectively.

**Table 4.4** Confusion Matrix for Category of Documents

		Predicted Values				
		classified as ->	a	b	c	d
Actual Values	a = 1	1	0	1	3	
	b = 2	0	0	1	0	
	c = 3	0	0	17	1	
	d = 0	0	0	0	3	

**Table 4.5** Summary of Results for Performance Metrics

	Accuracy	Precision	Recall	F1-score
a = 1	0.852	1.000	0.200	0.333
b = 2	0.963	0.000	0.000	0.000
c = 3	0.889	0.895	0.944	0.919
d = 0	0.852	0.429	1.000	0.600
<b>Weighted Average:</b>	<b>0.882</b>	<b>0.833</b>	<b>0.917</b>	<b>0.845</b>

Table 4.6 showed the confusion matrix for the category of documents uploaded by the faculty members with four classes. The classes were statuses that would appear on the evaluation of the document by the system. The summary of results for performance metrics of the confusion matrix shown in Table 4.7 showed that the weighted averages were 0.815, 0.935, 0.818, and 0.848 for accuracy, precision, recall, and F1 score, respectively.

**Table 4.6** Confusion Matrix for Status of Documents

		classified as ->	Predicted Values			
			a	b	c	d
Actual Values	a = COMPLETED		20	5	0	0
	b = PENDING (DNWC)		0	2	0	0
	c = PENDING (NNF)		0	0	0	0
	d = PENDING		0	0	0	0

**Table 4.7** Summary of Results for Performance Metrics

	Accuracy	Precision	Recall	F1-score
a = COMPLETED	0.815	1.000	0.800	0.889
b = PENDING (DNWC)	0.815	0.286	1.000	0.444
c = PENDING (NNF)	1.000	0.000	0.000	0.000
d = PENDING	1.000	0.000	0.000	0.000
<b>Weighted Average:</b>	<b>0.815</b>	<b>0.935</b>	<b>0.818</b>	<b>0.848</b>

Table 4.8 showed the confusion matrix for the subcategory of documents uploaded by the faculty members with twenty-seven classes. The classes were the

subcategory of the main categories of NBC. The classes were used to narrow down the classification of the documents into much more specific category as per NBC guidelines. The summary of results for performance metrics of the confusion matrix shown in Table 4.8 showed that the weighted averages were 0.709, 0.528, 0.874, and 0.635 for accuracy, precision, recall, and F1 score, respectively.

**Table 4.8** Confusion Matrix for Subcategory of Documents

classified as ->	Predicted Values																									
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
<b>a = 1.1.1</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>b = 1.1.2</b>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<b>c = 1.1.3</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>d = 1.1.4</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>e = 1.1.5</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>f = 1.1.6</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>g = 1.2.1</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>h = 1.2.2</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>i = 1.3.1</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>j = 2.1.1</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>k = 2.1.2</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<b>l = 2.2</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>m = 2.3.1</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>n = 2.3.2</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>o = 3.1.1</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>p = 3.1.2</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>q = 3.1.3</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<b>r = 3.1.4</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>s = 3.2.1</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0
<b>t = 3.2.2</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	2	0
<b>u = 3.3.1</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>v = 3.3.2</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>w = 3.3.3</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>x = 3.4</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>y = 3.5.1</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
<b>z = 3.6.1</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>aa = 0</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

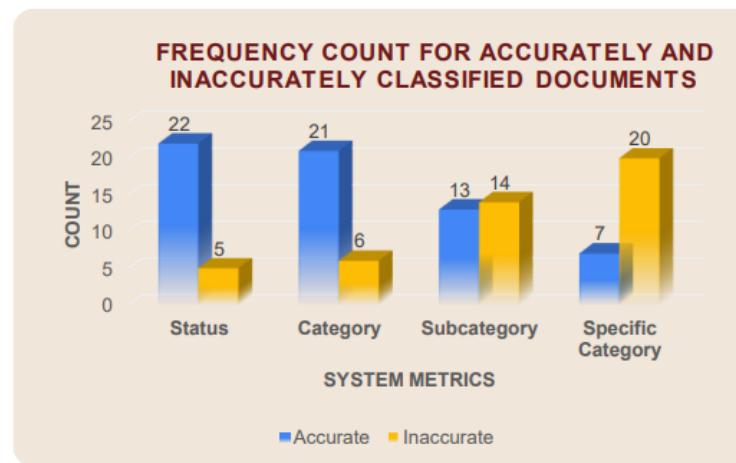
**Table 4.9** Summary of Results for Performance Metrics

	<b>Accuracy</b>	<b>Precision</b>	<b>Recall</b>	<b>F1-score</b>
<b>a = 1.1.1</b>	1.000	0.000	0.000	0.000
<b>b = 1.1.2</b>	0.963	1.000	0.500	0.667
<b>c = 1.1.3</b>	1.000	0.000	0.000	0.000
<b>d = 1.1.4</b>	1.000	0.000	0.000	0.000
<b>e = 1.1.5</b>	0.889	0.000	0.000	0.000
<b>f = 1.1.6</b>	1.000	0.000	0.000	0.000
<b>g = 1.2.1</b>	1.000	0.000	0.000	0.000
<b>h = 1.2.2</b>	1.000	0.000	0.000	0.000
<b>i = 1.3.1</b>	1.000	0.000	0.000	0.000
<b>j = 2.1.1</b>	1.000	0.000	0.000	0.000
<b>k = 2.1.2</b>	0.963	0.000	0.000	0.000
<b>l = 2.2</b>	1.000	0.000	0.000	0.000
<b>m = 2.3.1</b>	1.000	0.000	0.000	0.000
<b>n = 2.3.2</b>	1.000	0.000	0.000	0.000
<b>o = 3.1.1</b>	1.000	0.000	0.000	0.000
<b>p = 3.1.2</b>	1.000	0.000	0.000	0.000
<b>q = 3.1.3</b>	0.963	0.000	0.000	0.000
<b>r = 3.1.4</b>	1.000	0.000	0.000	0.000
<b>s = 3.2.1</b>	0.741	0.563	1.000	0.720
<b>t = 3.2.2</b>	0.704	0.000	0.000	0.000
<b>u = 3.3.1</b>	1.000	0.000	0.000	0.000
<b>v = 3.3.2</b>	1.000	0.000	0.000	0.000
<b>w = 3.3.3</b>	1.000	0.000	0.000	0.000
<b>x = 3.4</b>	1.000	0.000	0.000	0.000
<b>y = 3.5.1</b>	0.889	0.000	0.000	0.000
<b>z = 3.6.1</b>	1.000	0.000	0.000	0.000
<b>aa = 0</b>	0.852	0.429	1.000	0.600
<b>Weighted average:</b>	<b>0.709</b>	<b>0.528</b>	<b>0.874</b>	<b>0.635</b>

**Table 4.10** Results of Different Parameters of the Uploaded Documents

<b>File</b>	<b>Initial Status</b>	<b>Current Status</b>	<b>Category (System)</b>	<b>Category (Manual)</b>	<b>Specific category (System)</b>	<b>Specific category (Manual)</b>	<b>Subcategory (Manual)</b>
PDF1	PENDING (DNWC)	COMPLETED	0	3	0	3.2.2.2 b.	3.2.2
PDF2	COMPLETED	COMPLETED	3	3	3.2.1.3.b	3.2.2.2 b.	3.2.2
PDF3	PENDING (DNWC)	PENDING (DNWC)	0	0	0	0	0
PDF4	COMPLETED	COMPLETED*	3	1	3.2.1.3.b	1.1.2	1.1.2
PDF5	COMPLETED	COMPLETED	1	1	<b>1.1.2</b>	<b>1.1.2</b>	1.1.2
PDF6	COMPLETED	COMPLETED	3	2	3.2.1.3.b	2.1.2	2.1.2
PDF7	COMPLETED	COMPLETED	3	3	3.2.2.3.c	3.1.3 a.	3.1.3
PDF8	COMPLETED	COMPLETED	3	3	3.2.1.3.b	3.2.1.3 b.	3.2.1
PDF9	COMPLETED	COMPLETED	3	3	3.5.1	3.2.2.2 b.	3.2.2
PDF10	COMPLETED	COMPLETED	3	3	3.5.1	3.2.2.2 b.	3.2.2
PDF11	COMPLETED	COMPLETED	3	3	3.2.1.3.b	3.2.2.2 b.	3.2.2
PDF12	COMPLETED	COMPLETED	3	3	3.2.1.2	3.2.2.2 c.	3.2.2
PDF13	COMPLETED	COMPLETED	3	3	3.2.1.3.b	3.2.1.3 b.	3.2.1

PDF14	COMPLETED	COMPLETED	3	3	3.2.1.3.b	3.2.1.3 c.	3.2.1
PDF15	COMPLETED	COMPLETED	3	3	3.2.1.3.b	3.2.1.3 c.	3.2.1
PDF16	COMPLETED	COMPLETED	3	3	3.2.1.3.b	3.2.1.3 c.	3.2.1
PDF17	COMPLETED	COMPLETED	3	3	3.2.1.3.b	3.2.1.3 c.	3.2.1
PDF18	COMPLETED	COMPLETED	3	3	3.2.1.3.b	3.2.1.3 c.	3.2.1
PDF19	COMPLETED	COMPLETED	3	3	3.2.1.3.b	3.2.1.3 c.	3.2.1
PDF20	COMPLETED	COMPLETED	3	3	3.2.1.3.b	3.2.1.3 b.	3.2.1
PDF21	COMPLETED	COMPLETED	3	3	3.2.1.1.c	3.5.1	3.5.1
PDF22	COMPLETED	COMPLETED	3	3	3.2.1.1.c	3.2.2.3 c.	3.2.2
PDF23	PENDING (DNWC)	COMPLETED	0	0	0	0	0
PDF24	PENDING (DNWC)	COMPLETED	0	1	0	1.1.5 b.	1.1.5
PDF25	PENDING (DNWC)	COMPLETED	0	1	0	1.1.5 b.	1.1.5
PDF26	PENDING (DNWC)	PENDING (DNWC)	0	0	0	0	0
PDF27	PENDING (DNWC)	COMPLETED	0	1	0	1.1.5 b.	1.1.5



**Figure 4.61** Summary of Correct vs. Wrong Evaluation of the Documents

Table 4.10 showed the results of the status, category, subcategory, and specific category of the 27 documents uploaded on the web application. Figure 4.60 showed the summary of correct vs. wrong evaluation results of the documents to show the comparison of system vs. manual evaluation. The summary showed 22 correctly labeled statuses and 5 incorrectly labeled statuses. For the

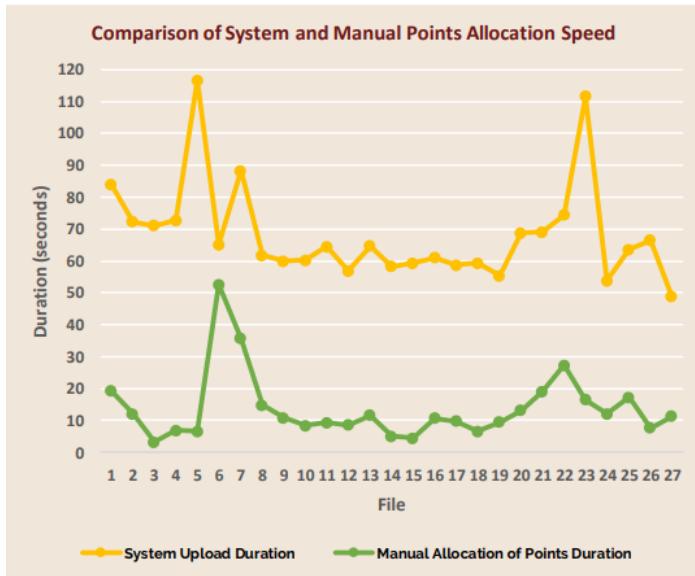
subcategory, it labeled 13 correct and 14 incorrect subcategories. For the specific category, it labeled 7 correct and 20 incorrect specific categories. The documents uploaded on the web application underwent a manual evaluation to ensure the accuracy of the results of the system.

#### 4.3.2 System Duration Result

Table 4.11 presents all of the documents or files uploaded by the users and includes the data extracted such as the category and subcategory that were determined manually, as well as the upload duration that was measured by the system, and the duration when manually assessed. Measures of central tendency – mean and median – of both the durations or speeds are provided along with the minimum and maximum values.

**Table 4.11** System and Manual Allocation of Points Duration

File	Category (Manual)	Subcategory (Manual)	System Upload Duration (s)	Manual Allocation of Points Duration (s)
1	3	3.2.2.2 b.	83.8543	19.21
2	3	3.2.2.2 b.	72.334	11.99
3	0	0	71.1257	3.19
4	1	1.1.2	72.7407	6.94
5	1	1.1.2	116.6818	6.56
6	2	2.1.2	65.1858	52.62
7	3	3.1.3 a.	88.3067	35.65
8	3	3.2.1.3 b.	61.7809	14.76
9	3	3.2.2.2 c.	60.0116	10.86
10	3	3.2.2.2 b.	60.2079	8.35
11	3	3.2.2.2 b.	64.4939	9.25
12	3	3.2.2.2 c.	56.8275	8.58
13	3	3.2.1.3 b.	64.6325	11.54
14	3	3.2.1.3 c.	58.3405	5.02
15	3	3.2.1.3 c.	59.2702	4.41
16	3	3.2.1.3 c.	60.9969	10.62
17	3	3.2.1.3 c.	58.702	9.83
18	3	3.2.1.3 c.	59.3233	6.59
19	3	3.2.1.3 c.	55.3894	9.47
20	3	3.2.1.3 b.	68.774	13.12
21	3	3.5.1	69.085	19.07
22	3	3.2.2.3 c.	74.3884	27.29
23	1	1.1.5 b.	111.6864	16.43
24	1	1.1.5 b.	53.8937	12.09
25	1	1.1.5 b.	63.5606	17.22
26	0	0	66.4768	7.57
27	1	1.1.5 b.	48.7891	11.22
Minimum			<b>48.7891</b>	<b>3.19</b>
Maximum			<b>116.6818</b>	<b>52.62</b>
Mean			<b>68.40220741</b>	<b>13.68333333</b>
Median			<b>64.4939</b>	<b>10.86</b>



**Figure 4.62** Comparison Between System and Manual Allocation of Points Speed

Figure 4.61 visualizes the comparison between the speed of both the system and manual allocation of points. Manual allocation of points does not exceed the sixty-second mark, whereas the system typically requires longer than sixty seconds to complete the process. Files 5 and 23 take the longest runtime of the program, the reason being both of the documents are ‘Transcript of Records’ which contain greater number of words to be processed by the OCR than certificates from trainings, workshops, and seminars. Meanwhile, File 6 takes the longest time to be awarded points manually. File 6 is a ‘Certificate of Employment’ document, which requires specific and detailed computation of points based on the length of time the user or a faculty member served as a full-time employee in an SUC, or in a public or private institution. In comparison, manual points allocation is faster than the system, taking an average of 13.683 seconds versus 68.402 seconds.

## **4.4 Project Evaluation**

### **4.4.1 Technical Evaluation Result**

The system was evaluated by faculty members of all departments under College of Engineering and was conducted through a survey which evaluates the overall feature of the system. The total number of respondents is three – two from Electronics Engineering Department and one from Electrical Engineering Department.

The scale of the rating ranges from 1 being the lowest and 4 being the highest. The result of the technical evaluation is shown in the following tables below.

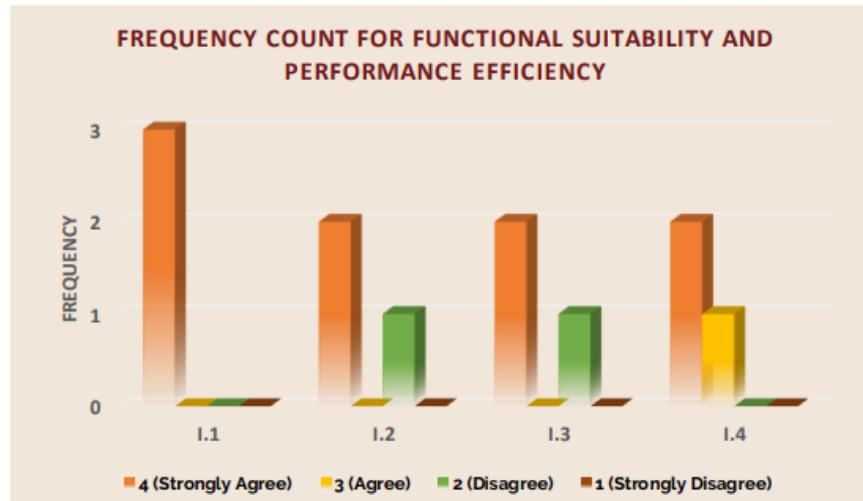
The functional suitability and performance efficiency was evaluated using the following statement:

- I. 1. The system was able to facilitate the accomplishment of the specified tasks: storing, classifying, and allocation of points on documents.
- I. 2. The system provides accurate and reliable results.
- I. 3. The system's response and processing times consume less time when performing its functions compared to doing the process manually.
- I. 4. It can handle numerous documents and still perform the tasks well.

**Table 4.12** Frequency Count for Functional Suitability and Performance

Efficiency

Rating	I.1.		I.2.		I.3.		I.4	
	Frequency	%	Frequency	%	Frequency	%	Frequency	%
4 (Strongly Agree)	3	100%	2	67%	2	67%	2	67%
3 (Agree)	0	0%	0	0%	0	0%	1	33%
2 (Disagree)	0	0%	1	33%	1	33%	0	0%
1 (Strongly Disagree)	0	0%	0	0%	0	0%	0	0%
<b>TOTAL</b>	<b>3</b>	<b>100%</b>	<b>3</b>	<b>100%</b>	<b>3</b>	<b>100%</b>	<b>3</b>	<b>100%</b>

**Figure 4.63** Frequency Count for Functional Suitability and Performance

Efficiency

Table 4.12 and Figure 4.63 illustrates the frequency count for functional stability and performance efficiency section of the technical evaluation. All of the respondents strongly agreed that the system was able to perform the tasks such as storing, classifying, and allocation of points on documents. On the other hand, most agreed that the system provided accurate and reliable results as well as it consumed less processing time compared to the manual process. And, the

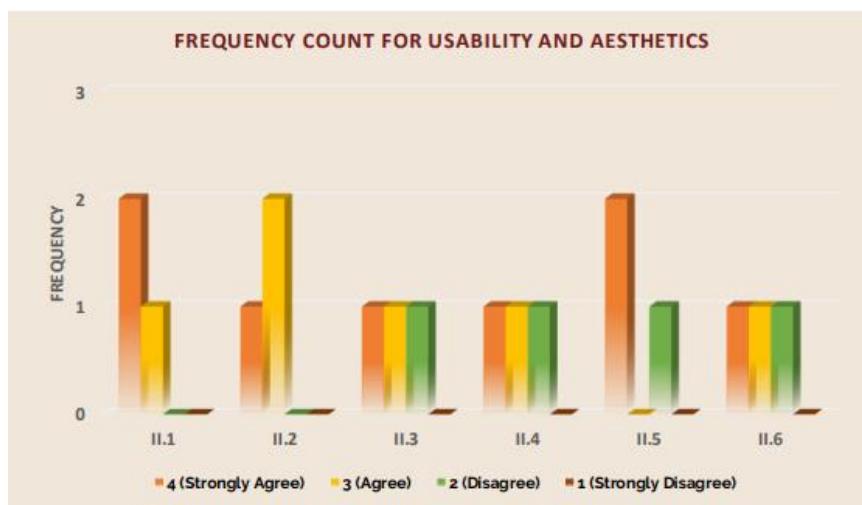
respondents strongly agreed and agreed that the system is capable of handling numerous documents.

The usability and aesthetics was evaluated using the following statement:

- II. 1. The web application is aesthetically pleasing.
- II. 2. The web application is user-friendly.
- II. 3. The operability of the kiosk is easy and requires minimum supervision.
- II. 4. The kiosk is comfortable to use.
- II. 5. The system is helpful in obtaining a real-time result of my current rank and detailed summary of points.
- II. 6. I experienced errors or bugs while using the system.

**Table 4.13** Frequency Count for Usability and Aesthetics

Rating	II. 1.		II.2.		II.3		II.4		II.5		II.6	
	Freq.	%										
4 (Strongly Agree)	2	67%	1	33%	1	33.3 3%	1	33.3 3%	2	67%	1	33.3 3%
3 (Agree)	1	33%	2	67%	1	33.3 3%	1	33.3 3%	0	0%	1	33.3 3%
2 (Disagree)	0	0%	0	0%	1	33.3 3%	1	33.3 3%	1	33%	0	0%
1 (Strongly Disagree)	0	0%	0	0%	0	0%	0	0%	0	0%	1	33.3 3%
<b>TOTAL</b>	<b>3</b>	<b>100 %</b>										



**Figure 4.64** Frequency Count for Usability and Aesthetics

Table 4.13 and Figure 4.64 presents the frequency count for usability and aesthetics section of the technical evaluation. Majority of the respondents strongly agreed that the design of the web application is aesthetically pleasing, and that the system is helpful in obtaining real-time results. However, one of the respondents disagreed on the latter. All of the respondents also find the web application user-friendly. For the statements regarding the evaluation of the kiosk, specifically II.3. and II.4., respondents were unable to physically test and try the kiosk; thus, a variety of responses were received. Some of the respondents encountered few bugs or errors when using and navigating through the web application.

The security and portability of the system was evaluated using the following statement:

III. 1. The utilization of blockchain technology ensures that the result is authentic and legitimate.

III. 2. Having an account secures my personal information and results.

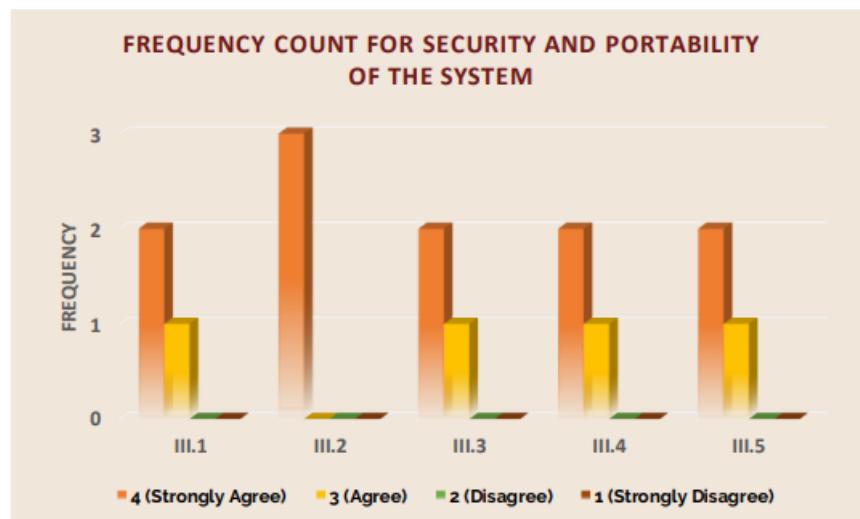
III. 3. It is helpful to have my personal pseudocode upon creating an account to ensure that only authorized persons can have access to the system.

III. 4. The system can be accessed using other devices other than the kiosk.

III. 5. In comparison to the traditional process, I prefer to use the system in classifying and allocating points to my documents for the current NBC No. 461 cycle.

**Table 4.14** Frequency Count for Security and Portability of the System

Rating	III. 1.		III.2.		III.3		III.4		III.5	
	Freq.	%								
4 (Strongly Agree)	2	67%	3	100 %	2	67%	2	67%	2	67%
3 (Agree)	1	33%	0	0%	1	33%	1	33%	1	33%
2 (Disagree)	0	0%	0	0%	0	0%	0	0%	0	0%
1 (Strongly Disagree)	0	0%	0	0%	0	0%	0	0%	0	0%
<b>TOTAL</b>	<b>3</b>	<b>100 %</b>								



**Figure 4.65** Frequency Count for Security and Portability of the System

Table 4.14 and Figure 4.65 shows the frequency count for security and portability of the system section of the technical evaluation. The respondents strongly agreed and agreed that the utilization of blockchain ensures that the results are authentic and legitimate. Most of the respondents strongly agreed that having their personal account and pseudocode provide security on their data. Also, majority of them strongly agreed that the web application or the system, can be accessed using other devices other than the kiosk, and prefers to have their documents processed by the system.

## **CHAPTER FIVE**

### **SUMMARY OF FINDINGS, CONCLUSIONS AND RECOMMENDATIONS**

This chapter presents the summary of findings, the conclusions formulated from the results, and the possible recommendations to further improve the study.

#### **5.1 Summary of Findings**

The NBC2 project is an automated system for allocating points in accordance with the NBC 461-CCE point system in State Universities and Colleges as well as a portfolio optimization that uses optical character recognition, image pre-processing techniques, natural language processing, and machine learning in classifying the uploaded document to its corresponding category and subcategory. The proponents deployed the web-based application on an earlier date than the kiosk, and has been live for the faculty members to use for more than 1 month. The kiosk, however, was deployed for less than a month in the faculty office of the College of Engineering at Technological University of the Philippines–Manila. The present condition of COVID-19 and online classes hindered faculty members from physically evaluating the kiosk. Hence, both uploading of documents and system evaluation were conducted online.

The NBC2 iPromote technology was able to aid the faculty members in having a real-time result of their documents for the 8<sup>th</sup> cycle of NBC 461-CCE. Although, there are still some accuracy issues with the developed predictive model for classifying and allocating points to the documents. In spite of that, the results generated by the system were secured with the implementation of NEM Blockchain Apostille Service Notarization and were able to be validated if modifications were made. The web-based application has a domain name of [www.nbcipromote.com](http://www.nbcipromote.com) and was secured with HTTPS protocol. The

proponents also constructed a kiosk which includes the scanner, printer, and a desktop computer with a touchscreen monitor, to be of service when the faculty members would have to scan their document and print their results.

## **5.2 Conclusion**

Based on the findings and results of the study, the following are the conclusions drawn out by the proponents:

1. The proponents were able to construct a kiosk that aids the faculty members in scanning their hardcopy documents and print their results. Also, a web-based application was successfully developed using HTML/CSS, Javascript, Bootstrap, PHP, and MySQL, which was deployed on an AWS Elastic Computing Cloud (EC2) instance. The repository of the system is a Cloud Storage provided in the cloud computing service offered by Amazon Web Services and was upgraded to 40Gb of Block Storage to cater more documents to be processed and stored. This allows the users to access their uploaded files and the web application as a whole remotely via the Internet. The web-based application is also deemed aesthetically pleasing and user-friendly by the faculty members, and was able to carry out the proposed tasks such as recommending trainings, importing PDFs, process documents, store uploaded files to the cloud storage, save extracted data to a database, assess pending files, and generate PDF of results.
2. The image pre-processing techniques used helped improve the image quality of documents for further processing. The Natural Language Processing techniques used helped spelling correction and improvement of the text for further analysis, except that the processing time took longer for longer texts. The machine learning model was

able to classify documents under the classes that were in the dataset when it was trained but failed to classify other documents that belong to other classes that were missing during the training of the model. The keywords per specific category helped improve the classification and pointing of the documents from the classified subcategory.

3. The proponents successfully developed a program of NEM Blockchain Apostille Service Notarization and was implemented in the detailed summary of points generated by the system. The program was able to generate a notary transaction hash key after every successful transaction, and was capable of validating results if modifications were made. The NEM Blockchain Apostille was programmed using Javascript (node.js) and coded in Visual Studio Code along with the web-based application.
4. The system was tested and evaluated by faculty members from most of the departments within College of Engineering by responding to the technical evaluation questionnaire formulated by the proponents with the statements patterned after the eight quality characteristics of a software product in accordance with the ISO/IEC 25010 standard.

### **5.3 Recommendations**

The proponents made the following recommendations for further improvements to the study:

1. Expand the scope of the project to university-wide in order to collect more documents for all categories of NBC 461 that can be used as training dataset for machine learning.

2. Use a more accurate optical character recognition to boost the accuracy of the text extraction. Use a faster Natural Language Processing library for text improvement and faster processing time.
3. Increase the number of keywords for the different categories that the system can recognize.
4. Implement an alternative process of executing the classification program that will allow the system to process documents simultaneously and shorten the upload duration per document.
5. Develop a feature that will authorize the administrator/department head to verify the output of the system when the uploaded document has a ‘COMPLETED’ status.
6. Include the Qualitative Contribution Evaluation (QCE).
7. Develop a feature that can detect the authenticity of the document as well as detecting duplicate documents.
8. Use higher specifications of the computer to run the system faster and smoothly.

## **REFERENCES:**

- [1] University of Southeastern Philippines, “Brief Historical Evolution of NBC 461,” [Online]. Available: <https://www.usep.edu.ph/zonal/about-zonal-2/>
- [2] G.M. Alegre, R.C. Arcaya and E.P. Masuhay, “Teachers’ Reclassification, under NBC 461: Burdensome and Prolific,” *International Journal of Innovative Science and Research Technology*, vol. 4, issue 10, 2019, pp. 236-238. [Online]. Available: [https://www.researchgate.net/publication/344248487\\_Teachers'\\_Reclassification\\_under\\_NBC\\_461\\_Burdensome\\_and\\_Prolific](https://www.researchgate.net/publication/344248487_Teachers'_Reclassification_under_NBC_461_Burdensome_and_Prolific)
- [3] F.D. Esponilla II, L.K.S. Tolentino, C.B. Barbacena and A.P. Portez, “The National Budget Circular 461: Emerging trends in Philippines higher education promotion system,” *International Journal of Evaluation and Research in Education*, vol. 9, no. 4, 2020, pp. 1035-1044. [Online]. Available: [https://www.researchgate.net/publication/344712892\\_The\\_National\\_Budget\\_Circular\\_461\\_Emerging\\_Trends\\_in\\_Philippine\\_Higher\\_Education\\_Promotion\\_System](https://www.researchgate.net/publication/344712892_The_National_Budget_Circular_461_Emerging_Trends_in_Philippine_Higher_Education_Promotion_System)
- [4] O.A. Imam, “Commentary: Who is a Professor?” [Online]. Available: <https://www.mindanews.com/mindaviews/2018/10/commentary-who-is-a-professor/>
- [5] Department of Budget and Management, “Manual on Position Classification and Compensation” [Online]. Available: <https://www.dbm.gov.ph/wp-content/uploads/2012/03/Manual-on-PCC-Chapter-7.pdf>
- [6] Techopedia, “What is a Scanner? - Definition from Techopedia,” Techopedia.com, 26-Jul-2016. [Online]. Available: <https://www.techopedia.com/definition/30441/scanner>.

- [7] A. X2, “Types of Scanners Input Device,” ComputerGap.com, 21-Nov-2011. [Online]. Available: <https://computergap.com/2011/11/types-of-scanners-input-device.html>.
- [8] *What is a Monitor?*, 16-May-2020. [Online]. Available: <https://www.computerhope.com/jargon/m/monitor.htm>.
- [9] “What is a touch screen?,” *Visit the Computer Hope Page*, 03-May-2022. [Online]. Available: <https://www.computerhope.com/jargon/t/toucscre.htm>.
- [10] Techopedia, “What is a system unit? - definition from Techopedia,” *Techopedia.com*, 21-Jun-2017. [Online]. Available: <https://www.techopedia.com/definition/2308/system-unit>.
- [11] E. Notes, “What is a USB hub: How does a USB hub work,” *Electronics Notes*. [Online]. Available: <https://www.electronics-notes.com/articles/connectivity/usb-universal-serial-bus/usb-hubs.php>.
- [12] J. G. J. 24, jindal R. J. 2, pritish A. 1, R. G. M. 19, M. B. F. 11, and T. K. D. 11, “What is automatic voltage regulator? meaning, working principle & applications,” *Circuit Globe*, 17-Mar-2017. [Online]. Available: <https://circuitglobe.com/automatic-voltage-regulator.html>.
- [13] Lisa Bigelow Last Modified Date: May 18 and Lisa Bigelow Lisa Bigelow writes for Bold and is an award-winning content creator, “What is a dongle?,” *EasyTechJunkie*, 18-May-2022. [Online]. Available: <https://www.easytechjunkie.com/what-is-a-dongle.htm>.

- [14] By: IBM Cloud Education, “cloud-storage,” IBM. [Online]. Available: [https://www.ibm.com/cloud/learn/cloud-storage#toc-how-does-i-w\\_FXma9Q](https://www.ibm.com/cloud/learn/cloud-storage#toc-how-does-i-w_FXma9Q).
- [15] S. Al-fedaghi, “Developing Web Applications” *International Journal of Software Engineering and Its Applications*, vol. 5, no. 2, 2011, pp. 57-68. [Online]. Available: [https://www.researchgate.net/publication/228849246\\_Developing\\_Web\\_Applications?enrichId=rgreq-02fb58051dd3c8b0c7c29cb048cb7389-XXX&enrichSource=Y292ZXJQYWdlOzIyODg0OTI0NjtBUzoyMTgyODA2NTc3MjMzOTJAMTQyOTA1MzU3MjA2MQ%3D%3D&el=1\\_x\\_3&\\_esc=publicationCoverPdff](https://www.researchgate.net/publication/228849246_Developing_Web_Applications?enrichId=rgreq-02fb58051dd3c8b0c7c29cb048cb7389-XXX&enrichSource=Y292ZXJQYWdlOzIyODg0OTI0NjtBUzoyMTgyODA2NTc3MjMzOTJAMTQyOTA1MzU3MjA2MQ%3D%3D&el=1_x_3&_esc=publicationCoverPdff)
- [16] F. Ahmad, F. Baharom and M. Husni, “Current Web Application Development and Measurement Practices for Small Software Firms” *IJCSI International Journal of Computer Science Issues*, vol. 9, issue 2, no. 3, 2012, pp. 125-129. [Online]. Available: [https://www.researchgate.net/publication/225046987\\_Current\\_Web\\_Application\\_Development\\_and\\_Measurement\\_Practices\\_for\\_SmallSoftware\\_Firms](https://www.researchgate.net/publication/225046987_Current_Web_Application_Development_and_Measurement_Practices_for_SmallSoftware_Firms)
- [17] “What is HTML?,” *What is HTML*. [Online]. Available: [https://www.w3schools.com/whatis/whatis\\_html.asp](https://www.w3schools.com/whatis/whatis_html.asp).
- [18] CSS *introduction*. [Online]. Available: [https://www.w3schools.com/css/css\\_intro.asp](https://www.w3schools.com/css/css_intro.asp).
- [19] “What is JavaScript?,” *What is JavaScript*. [Online]. Available: [https://www.w3schools.com/whatis/whatis\\_js.asp](https://www.w3schools.com/whatis/whatis_js.asp).
- [20] L. Welling and L. Thomson, *PHP and MySQL Web Development, second edition*. Sams, 2003.

- [21] Katie Maxwell Code Institute Graduate, Ali Malik Code Institute Graduate, Stein de Vos Code Institute Graduate, Darragh Browne Code Institute Graduate, Eloise Stancioff Code Institute Graduate, Jodie Gardner Code Institute Graduate, Adrian Rus Code Institute Graduate, and Alun Price Code Institute Graduate, “Full Stack Software Development Diploma,” Code Institute, 15-Mar-2021. [Online]. Available: <https://codeinstitute.net/.well-known/captcha/>.
- [22] Techopedia, “What is a Database Management System (DBMS)? - Definition from Techopedia,” Techopedia.com, 18-Aug-2020. [Online]. Available: <https://www.techopedia.com/definition/24361/database-management-systems-dbms>.
- [23] P. Canuma, “Image Pre-processing,” Medium, 28-Aug-2020. [Online]. Available: <https://towardsdatascience.com/image-pre-processing-c1aec0be3edf>.
- [24] A. J. HarrisHi, A. J. Harris, Author: Hi, View all posts by Joshua Harris, michael E. says: and D. Says: “What Is OCR And What Is It Used For?,” Document Data Capture And Workflow Automation, 06-Apr-2021. [Online]. Available: <https://docparser.com/blog/what-is-ocr/>.
- [25] BytePace, “What is Tesseract and how it works?,” Medium, 23-Dec-2019. [Online]. Available: <https://bytepacer.medium.com/what-is-tesseract-and-how-it-works-dfff720f4a32>.
- [26] “Tesseract OCR Software Tutorial: Tesseract Usage,” Research Guides. [Online]. Available: <https://guides.nyu.edu/tesseract/usage>.
- [27] Expert.ai, “What is Machine Learning? A Definition,” [Online]. Available: <https://www.expert.ai/blog/machine-learning-definition/>

- [28] I. Salian, “SuperVize Me: What’s the Difference Between Supervised, Unsupervised, Semi-Supervised and Reinforcement Learning?” [Online]. Available: <https://blogs.nvidia.com/blog/2018/08/02/supervised-unsupervised-learning>
- [29] D. Fumo, “Types of Machine Learning Algorithms You Should Know,” [Online]. Available: <https://towardsdatascience.com/types-of-machine-learning-algorithms-you-should-know-953a08248861>
- [30] B.Osiński and K. Budek, “What is reinforcement learning? The complete guide,” [Online]. Available: <https://deepsense.ai/what-is-reinforcement-learning-the-complete-guide/>
- [31] H. Shamsudin, U. K. Yusof, A. Jayalakshmi, and M. N. Akmal Khalid, “Combining oversampling and undersampling techniques for imbalanced classification: A comparative study using credit card fraudulent transaction dataset,” 2020 IEEE 16th International Conference on Control & Automation (ICCA), Oct. 2020, doi: 10.1109/icca51439.2020.9264517.
- [32] J. M. 19th, A. L. M. J. 18th, M. M. 25th, M. K. J. 23rd, E. H. S. 5th, and S. N. 17th, “Machine Learning (ML) for Natural Language Processing (NLP),” Lexalytics, 02-Oct-2020. [Online]. Available: <https://www.lexalytics.com/lexablog/machine-learning-natural-language-processing>.
- [33] N. Donges, “Introduction to NLP,” Built In. [Online]. Available: <https://builtin.com/data-science/introduction-nlp>.

[34] “Natural Language Processing Semantic Analysis: A Definition,” Expert.ai, 03-May-2021. [Online]. Available: <https://www.expert.ai/blog/natural-language-process-semantic-analysis-definition/>

[35] “Natural Language Processing - Syntactic Analysis,” Tutorialspoint. [Online]. Available:

[https://www.tutorialspoint.com/natural\\_language\\_processing/natural\\_language\\_processing\\_syntactic\\_analysis.htm](https://www.tutorialspoint.com/natural_language_processing/natural_language_processing_syntactic_analysis.htm)

[36] “What is blockchain?” [Online]. Available: <https://www.euromoney.com/learning/blockchain-explained/what-is-blockchain>.

[37] “What are the different types of blockchain technology?” 06-Jan-2021. [Online]. Available: <https://101blockchains.com/types-of-blockchain/>.

[38] S. Seth, “All about Nem (xem), the HARVESTED CRYPTOCURRENCY,” 28-Aug-2020. [Online]. Available: <https://www.investopedia.com/tech/meet-nem-xem-harvested-cryptocurrency/>.

[39] D. Quass, J. McHugh, J. Widom, R. Goldman, and S. Abiteboul, “Lore: a database management system for semistructured data,” ACM SIGMOD Record 26(3), vol.26, pp. 54-56, 1997. [Online]. Available:

[https://www.researchgate.net/publication/2595493\\_Lore\\_A\\_Database\\_Management\\_System\\_for\\_Semistructured\\_Data](https://www.researchgate.net/publication/2595493_Lore_A_Database_Management_System_for_Semistructured_Data)

[40] B. Lindsay, C. Mohan, and R. Obermarck, “Transaction Management in the R\* Distributed Database Management System,” ACM Transactions on Database Systems,

vol.11, no.4, pp. 378-396, 1986. [Online]. Available:

<https://pdos.csail.mit.edu/6.824/papers/rstar.pdf>

[41] S. E. Rifqi, A. Saiful, and A. Fitra, “Application Development for Searching Drugs Information,” 2019 International Conference on Data and Software Engineering (ICoDSE), 2019.

[42] A. Kelec, I. Dujlović, and N. Obradović, “One approach for full-text search of files in MongoDB based systems,” 2019 18th International Symposium INFOTEH-JAHORINA (INFOTEH), 2019.

[43] R. Gunawan, A. Rahmatulloh, and I. Darmawan, “Performance Evaluation of Query Response Time in The Document Stored NoSQL Database,” 2019 16th International Conference on Quality in Research (QIR): International Symposium on Electrical and Computer Engineering, 2019.

[44] Z. Yu, C. Yuan, and K. Zheng, “A University Fixed Asset Database Information Management System Based on Internet of Things,” 2018 2nd IEEE Advanced Information Management, Communicates, Electronic and Automation Control Conference (IMCEC), 2018.\

[45] M. Swain, J. Anderson, R. Korrapati, and N. Swain, “Database programming using Java,” Proceedings IEEE SoutheastCon 2002 (Cat. No.02CH37283).

[46] S. Samson and A. Aponso, “An Analysis on Automatic Performance Optimization in Database Management Systems,” 2020 World Conference on Computing and Communication Technologies (WCCCT), 2020.

- [47] P. Dourish, W. K. Edwards, A. Lamarca, J. Lamping, K. Petersen, M. Salisbury, D. B. Terry, and J. Thornton, “Extending document management systems with user-specific active properties,” ACM Transactions on Information Systems, vol. 18, no. 2, pp. 140–170, 2000.\
- [48] W. Emmerich, P. Kroha, and W. Schäfer, “Object-oriented database management systems for construction of CASE environments,” Lecture Notes in Computer Science Database and Expert Systems Applications, pp. 631–642, 1993.
- [49] U. D. Dixit and M. S. Shirdhonkar, “Preprocessing Framework for Document Image Analysis.” International Journal of Advanced Networking and Applications, vol. 10, no. 4, pp. 3911-3918, 2019, doi: 10.35444/ijana.2019.10042.
- [50] C. B. Jeong and S. H. Kim, “A Document Image Preprocessing System for Keyword Spotting.” Digital Libraries: International Collaboration and Cross-Fertilization, pp. 440-443, 2004, doi: 10.1007/978-3-540-30544-6\_47.
- [51] P. Kale, G. Phade, S. Gandhe, and P. A. Dhulekar, “Enhancement of old images and documents by digital image processing techniques.” 2015 International Conference on Communication, Information & Computing Technology (ICCICT), pp. 1-5, 2015, doi: 10.1109/icciict.2015.7045709.
- [52] Q. A. Bui, D. Mollard, and S. Tabbone, “Selecting Automatically Pre-Processing Methods to Improve OCR Performances.” 2017 14th IAPR International Conference on Document Analysis and Recognition (ICDAR), pp. 169-174, 2017, doi: 10.1109/icdar.2017.8265116.

- [53] R. K. Sethi and K. K. Mohanty, “Optical Odia Character Classification using CNN and Transfer Learning: A Deep Learning Approach.” International Research Journal of Engineering and Technology (IRJET), vol. 7, no. 7, pp. 3885-3890, 2020.
- [54] T. M. Breuel, “,” *Document Recognition and Retrieval XV*, 2008.
- [55] W. Bieniecki, S. Grabowski, and W. Rozenberg, “Image Preprocessing for Improving OCR Accuracy,” *2007 International Conference on Perspective Technologies and Methods in MEMS Design*, 2007.
- [56] B. Gatos, T. Konidaris, K. Ntzios, I. Pratikakis, and S. J. Perantonis, “A segmentation-free approach for keyword search in historical typewritten documents,” *Eighth International Conference on Document Analysis and Recognition (ICDAR'05)*, 2005.
- [57] M. Koistinen, K. Kettunen, and T. Paakkonen, “Improving Optical Character Recognition of Finnish Historical Newspapers with a Combination of Fraktur & Antiqua Models and Image Preprocessing.”
- [58] A. M. Ceniza, T. K. Archival, and K. V. Bongo, “Mobile Application for Recognizing Text in Degraded Document Images Using Optical Character Recognition with Adaptive Document Image Binarization,” *Journal of Image and Graphics*, vol. 6, no. 1, pp. 44–47, 2018.
- [59] D. Sporici, E. Cuşnir, and C.-A. Boiangiu, “Improving the Accuracy of Tesseract 4.0 OCR Engine Using Convolution-Based Preprocessing,” *Symmetry*, vol. 12, no. 5, p. 715, 2020.

- [60] S. Badla, “Improving the Efficiency of Tesseract OCR Engine,” 2014. doi.org/10.31979/etd.5avd-kf2g
- [61] G. Li, X. Li, and B. Xu, “Numerical Simulation Technology Study on Automatic Translation of Foreign Language Images Based on Tesseract-ORC,” 2019 International Conference on Robots & Intelligent System (ICRIS), 2019.
- [62] K. Alkhalfaf, “OCR-Based Electronic Documentation Management System,” International Journal of Innovation, Management and Technology, vol. 5, no. 6, 2014.
- [63] J. Cai, E. Sun, and Z. Chen, “OCR Service Platform Based on OpenCV,” Journal of Physics: Conference Series, vol. 1883, no. 1, p. 012043, 2021.
- [64] J. M. Jayoma, E. S. Moyon, and E. M. Morales, “OCR Based Document Archiving and Indexing Using PyTesseract: A Record Management System for DSWD Caraga, Philippines,” *2020 IEEE 12th International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment, and Management (HNICEM)*, 2020.
- [65] R. Linaac, J.Z. Tan, B. R. Rosal, and C. Arriola, “Course Crediting System Using Optical Character Recognition,” *SMCC Higher Education Research Journal*, vol. 2, no. 1, 2019.
- [66] C. Abalorio, and M. dela Cerna, “Course Evaluation Generator (Ceg): An Automated Academic Advising System with Optical Character Recognition,” *International Journal of Technology and Engineering Studies*, vol. 4, no. 5, 2018.

- [67] J. B. Bernardo and L. J. Raboy, “Vehicle Plate Monitoring and Information System Using Optical Character Recognition (OC) Technique,” *SSRN Electronic Journal*, 2015.
- [68] Avgunstincic, M., & Peichl, A. (2019). Optical Character Recognition for Expiration Dates Validation. *New Methods and Practices in the Instrumentation, Automatic Control, and Informatics 2019*, 17-23.
- [69] “US9862222B1 - Digitally encoded seal for document verification,” *Google Patents*. [Online]. Available: <https://patents.google.com/patent/US9862222B1/en>.
- [70] *Espacenet*. [Online]. Available: <https://worldwide.espacenet.com/patent/search/family/072763364/publication/CN111782772A?q=pn%3DCN111782772A>.
- [71] I. Kaci, ‘Classifying receipts or invoices from images based on text extraction’, Dissertation, 2016.
- [72] A. Harisinghaney, A. Dixit, S. Gupta, and A. Arora, “Text and image based spam email classification using KNN, Naïve Bayes and Reverse DBSCAN algorithm.” *2014 International Conference on Reliability Optimization and Information Technology (ICROIT)*, pp. 153-155, 2014, doi: 10.1109/icroit.2014.6798302.
- [73] M. N. Swamy, M. Hanumanthappa, and N. Jyothi, “Indian Language Text Representation and Categorization Using Supervised Learning Algorithm.” *2014 International Conference on Intelligent Computing Applications*, pp. 406-410, 2014, doi: 10.1109/icica.2014.89.

- [74] F. Gurcan, “Multi-Class Classification of Turkish Texts with Machine Learning Algorithms.” *2018 2nd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)*, pp. 1-5, 2018, doi: 10.1109/ismsit.2018.8567307.
- [75] A. M. U. D. Khanday, S. T. Rabani, Q. R. Khan, N. Rouf, and M. Mohi Ud Din, “Machine learning based approaches for detecting COVID-19 using clinical text data.” *International Journal of Information Technology*, vol. 12, no. 3, pp. 731-739, 2020, doi: 10.1007/s41870-020-00495-9.
- [76] K. Vembandasamy, R. Sasipriya, and E. Deepa, “Heart Diseases Detection Using Naïve Bayes Algorithm.” *IJISET - International Journal of Innovative Science, Engineering & Technology*, vol. 2, no. 9, pp. 441-444, Sep. 2015. [Online]. Available: [http://ijiset.com/vol2/v2s9/IJISET\\_V2\\_I9\\_54.pdf](http://ijiset.com/vol2/v2s9/IJISET_V2_I9_54.pdf).
- [77] A. Amalia, A. Sharif, F. Haisar, D. Gunawan, and B. B. Nasution, “Meme Opinion Categorization by Using Optical Character Recognition (OCR) and Naïve Bayes Algorithm.” *2018 Third International Conference on Informatics and Computing (ICIC)*, pp. 1-5, 2018, doi: 10.1109/icac.2018.8780410.
- [78] S. Kumar and S. Goel, “Optimization of Text Classification using Supervised and Unsupervised Learning Approach.” Jul. 2015. [Online]. Available: <http://117.203.246.91:8080/jspui/bitstream/10266/3558/4/3558.pdf>.
- [79] A. F. A. Edulsa and J. B. Barbosa, “Document Classification of Accreditation Documents Using Machine Learning Algorithm.” *CEEHSS-19,ELBIS-19,ECBMS-19,TSETDM-19 Jan. 29-30, 2019 Cebu (Philippines)*, pp. 150-154, 2019, doi: 10.17758/erpub3.er01192016.

- [80] S. A. Hussein and M. R. Kareem, “A Proposed Arabic Text and Text Image Classification Technique Using a URL Address.” *Journal of Southwest Jiaotong University*, vol. 54, no. 5, pp. 1-10, Oct. 2019, doi: 10.35741/issn.0258-2724.54.5.41.
- [81] T.M. Amado, B.D. Brillo, J.R. Enerio, R.J.G. Prudente, E.M.B. Ramirez, C.K.A. Rivera, I.C. Valenzuela, E.O. Fernandez, J.P.M. Ramos, and G.C. Virrey, “Development of a Web-based Recommendation System for Filipino STEAM Educators” unpublished.
- [82] J.P. Aroso, M.A.R. Cervantes, Z.N. Espiritu, K.C.D. Miranda, S.A.C. Ramos, and C.G. Pascion, “Development of File Management System for ECE Accreditation” unpublished.
- [83] R.F. Syafariani and A. Devi, “Web-Based Academic Information System” *IOP Conference Series: Materials Science and Engineering*, vol. 662, issue 2, 2019. [Online]. Available: <https://iopscience.iop.org/article/10.1088/1757-899X/662/2/022042>
- [84] R. Hassannia, A.V. Barenji, Z.Li, and H. Alipour, “Web-Based Recommendation System for Smart Tourism: Multiagent Technology” *Sustainability*, vol. 11, issue 2, 2019. [Online]. Available: <https://www.mdpi.com/2071-1050/11/2/323>
- [85] A.C. Thio-Ac, R.M. Papalid, A.M.B. Tingson, C.G. Pascion, R.L. Jorda Jr., and R.C. Reyes, “Blockchain-based smart employment decision support system,” unpublished.
- [86] A.C. Thio-Ac, E.J. Domingo, R.M. Reyes, N. Arago, R.L. Jorda Jr., and J. Velasco, “Development of a Secure and Private Electronic Procurement System based on Blockchain Implementation,” *International Journal of Advanced Trends in Computer Science and Engineering*, vol.8, no.5, pp. 2626-2631, 2019. [Online]. Available:

[https://www.researchgate.net/publication/337241432\\_Development\\_of\\_a\\_Secure\\_and\\_Private\\_Electronic\\_Procurement\\_System\\_based\\_on\\_Blockchain\\_Implementation](https://www.researchgate.net/publication/337241432_Development_of_a_Secure_and_Private_Electronic_Procurement_System_based_on_Blockchain_Implementation)

[87] S.L. Cichosz, M.N. Stausholm, T. Kronborg, P. Vestergaard, and O. Hejlesen, “How to Use Blockchain for Diabetes Health Care Data and Access Management: An Operational Concept,” *Journal of Diabetes Science and Technology*, Aalborg, Denmark, 2018.

[Online].

Available:

[https://www.researchgate.net/publication/326636874\\_How\\_to\\_Use\\_Blockchain\\_for\\_Diabetes\\_Health\\_Care\\_Data\\_and\\_Access\\_Management\\_An\\_Operational\\_Concept](https://www.researchgate.net/publication/326636874_How_to_Use_Blockchain_for_Diabetes_Health_Care_Data_and_Access_Management_An_Operational_Concept)

[88] W. Huang, “A Blockchain-Based Framework for Secure Log Storage,” 2019 IEEE 2nd International Conference on Computer and Communication Engineering Technology-CCET, Beijing, China, 2019. [Online]. Available: <https://ieeexplore.ieee.org/document/8989093>

[89] M.R.L. Perez, B. Gerardo, and R. Medina, “Modified SHA256 for Securing Online Transactions based on Blockchain Mechanism,” 2018 IEEE 10th International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), Baguio City, Philippines, 2018.

[Online].

Available:

[https://www.researchgate.net/publication/331747184\\_Modified\\_SHA256\\_for\\_Securing\\_Online\\_Transactions\\_based\\_on\\_Blockchain\\_Mechanism](https://www.researchgate.net/publication/331747184_Modified_SHA256_for_Securing_Online_Transactions_based_on_Blockchain_Mechanism)

[90] G. Subramanian, A.S. Thampy, N.V. Ugwuoke and B. Ramnani, “Crypto Pharmacy – Digital Medicine: A Mobile Application Integrated with Hybrid Blockchain to Tackle the Issues in Pharma Supply Chain,” *IEEE Open Journal of the Computer*

- Society*, vol. 2, pp. 26-37. [Online]. Available:  
<https://ieeexplore.ieee.org/document/9314090>
- [91] G. Song, S. Kim, H. Hwang and K. Lee, “Blockchain-based Notarization for Social Media,” *2019 IEEE International Conference on Consumer Electronics (ICCE)*, Las Vegas, USA, 2019. [Online]. Available:  
<https://ieeexplore.ieee.org/document/8661978>
- [92] H. Guo, W. Li, M. Nejad and C. Shen, “Access Control for Electronic Health Records with Hybrid Blockchain-Edge Architecture,” *2019 IEEE International Conference on Blockchain (Blockchain)*, Atlanta, USA, 2019. [Online]. Available:  
<https://ieeexplore.ieee.org/document/8946149>
- [93] S. Kim, “Video streaming system based on Internet of media things and blockchain,” *2019 International Symposium on Multimedia and Communication Technology (ISMAC)*, Quezon City, Philippines, 2019. [Online]. Available:  
<https://ieeexplore.ieee.org/document/8836173>
- [94] M.J.M. Chowdhury, A. Colman, M.A. Kabir, J. Han and P. Sarda, “Blockchain as a Notarization Service for Data Sharing with Personal Data Store,” *2018 17th IEEE International Conference On Trust, Security And Privacy In Computing And Communications/ 12<sup>th</sup> IEEE International Conference On Big Data Science And Engineering*, New York, USA, 2018. [Online]. Available:  
<https://ieeexplore.ieee.org/document/8456052>
- [95] R. I. Bongcales, K. S. Cabeltes, J. C. Obejas, L.A T. Rauto, E.M.A M. Ruiz, T. M. Amado, N. M. Arago, E. A. Galido, C. G. Pascion, A. C. Thio-Ac, “NBC Portfolio

Optimization Database System by Using Optical Character Recognition and Machine Learning,” unpublished.

[96] N. Rahman, S. Dawal, N. Yusoff, and N. Kamil, “Anthropometric measurements among four Asian countries in designing sitting and standing workstations”, Feb. 2018.

[Online]:

[https://www.ias.ac.in/article/fulltext/sadh/043/01/0010#:~:text=Filipinos%20and%20Malaysian%20data%20were,%2C%20female%3A%2096%20cm\).](https://www.ias.ac.in/article/fulltext/sadh/043/01/0010#:~:text=Filipinos%20and%20Malaysian%20data%20were,%2C%20female%3A%2096%20cm).)

[97] K. Schultz, D. Batten, and T. Sluchak, “Optimal viewing angle for touch-screen displays: Is there such a thing?, *International Journal of Industrial Ergonomics 22 (1998) 343-350.*

[Online]:  
[https://www.researchgate.net/publication/229148261\\_Optimal\\_viewing\\_angle\\_for\\_touch-screen\\_displays\\_Is\\_there\\_such\\_a\\_thing](https://www.researchgate.net/publication/229148261_Optimal_viewing_angle_for_touch-screen_displays_Is_there_such_a_thing)

[98] Training Set vs Validation Set vs Test Set | Codecademy, “Training Set vs Validation Set vs Test Set | Codecademy,” *Codecademy*, 2019. [Online]:  
<https://www.codecademy.com/articles/training-set-vs-validation-set-vs-test-set>.

[99] R. Vidiyala, “Performance Metrics for Classification Machine Learning Problems,” Medium, Jul. 26, 2020. <https://towardsdatascience.com/performance-metrics-for-classification-machine-learning-problems-97e7e774a007>.

[100] J. Toledo, “Why Millions of Developers use JavaScript for Web Application Development,” [Online]. Available: <https://torquemag.io/2018/06/why-millions-of-developers-use-javascript-for-web-application-development/>

[101] ISO 25000, “ISO/IEC 25010,” [Online]. Available:  
<https://iso25000.com/index.php/en/iso-25000-standards/iso-25010?start=0>

# **APPENDIX A**

## Source Codes

# Main Program using Java

## NBC2.PDFtoText

### AccessFilename.java

```
package com.nbc2.part1;
import java.io.File; import
java.sql.Connection; import
java.sql.DriverManager; import
java.sql.PreparedStatement; import
java.sql.ResultSet; import
java.sql.SQLException; import
java.util.Properties;

public class AccessFilename extends
PropertiesVariables {
    public String urlDB, userDB, passDB,
    dirPDF, dirImgTxt, fileName,
    userStatus;
    public File filePath; public Connection
    conn;
    Properties propsDB;
    public AccessFilename() throws
SQLException {
        propsDB = getDBProperties();
        urlDB =
        propsDB.getProperty("db.url");
        userDB =
        propsDB.getProperty("db.user");
        passDB =
        propsDB.getProperty("db.password");
        dirPDF =
        propsDB.getProperty("dir.pdf");
        dirImgTxt =
        propsDB.getProperty("dir.imgtxt");
        fileName = ""; userStatus = "";
        conn =
        DriverManager.getConnection(urlDB,
        userDB, passDB); }
    public void accessFileDB(String email)
    throws SQLException {
        String filenameQuery = "SELECT *
        FROM nbc2.userfiles WHERE email =
        " + email + "";
        PreparedStatement getFilename =
        conn.prepareStatement(filenameQuery,
        ResultSet.TYPE_SCROLL_SENSITIVE,
        ResultSet.CONCUR_READ_ONLY);
        getFilename.executeQuery();
        try (ResultSet accessPDFFilename =
        getFilename.getResultSet()) {
            if (accessPDFFilename.last()) {
                fileName =
                accessPDFFilename.getString("filen
                ame"); }
            } catch (Exception e) {
                e.printStackTrace(); } finally { filePath
                = new File(dirPDF, fileName);
                conn.close(); } } }
```

### MainPart1.java

```
package com.nbc2.part1;
import java.io.IOException; import
java.sql.SQLException;
import
org.springframework.boot.autoconfigure.
SpringBootApplication; import
```

```
net.sourceforge.tess4j.TesseractException
;
@SpringBootApplication

public class MainPart1 {
    public static void main(String[] args)
    throws SQLException, IOException,
    TesseractException {
        long startTime = System.nanoTime();
        Runtime runtime =
        Runtime.getRuntime();
        long memoryMax =
        runtime.maxMemory() / 1_000_000;
        String email = args[0];
        PDFToText pdfToText = new
        PDFToText(email);
        pdfToText.PDFtoTxt();
        pdfToText.stopwordRemovalRaw();
        pdfToText.nlpTechniques();
        System.gc(); long endTime =
        System.nanoTime();
        double execTimeInSecs = (long)
        (endTime - startTime) /
        1_000_000_000;
        double inMinutes = execTimeInSecs /
        60;
        System.out.println("\nThe program
        took " + execTimeInSecs + " seconds
        or " + inMinutes + " minutes to
        execute."); long memoryUsed =
        (runtime.totalMemory() -
        runtime.freeMemory()) / 1_000_000;
        //in MB
        double memoryUsedPercent =
        (memoryUsed * 100.0) / memoryMax;
        System.out.println("\nMaximum
        memory (in MB): " + memoryMax);
        System.out.println("Memory used (in
        MB): " + memoryUsed);
        System.out.println("Memory used in
        percent: " + memoryUsedPercent);
        System.gc(); } }
```

### PDFToText.java

```
package com.nbc2.part1;
import java.awt.image.BufferedImage;
import java.io.BufferedReader; import
java.io.File; import java.io.FileReader;
import java.io.FileWriter; import
java.io.IOException; import
java.sql.SQLException; import
java.util.ArrayList; import
java.util.HashSet; import java.util.List;
import java.util.stream.Collectors; import
javax.imageio.ImageIO; import
org.apache.pdfbox.pdmodel.PDDocument
; import
org.apache.pdfbox.rendering.ImageType;
import
org.apache.pdfbox.rendering.PDFRender
er; import org.imgscalr.Scalr; import
org.imgscalr.Scalr.Method; import
org.imgscalr.Scalr.Mode; import
com.nbc2.part1.spelling.*; import
edu.stanford.nlp.ling.CoreLabel;
import
edu.stanford.nlp.pipeline.CoreDocument;
```

```
import
edu.stanford.nlp.pipeline.StanfordCoreN
LP;
import net.sourceforge.tess4j.Tesseract;
import
net.sourceforge.tess4j.TesseractException
;

public class PDFToText {
    String fileName, text, allText, finTxt,
    pdfDirectory, imgTxtDirectory,
    currentDirectory; File newTextFile,
    pdfFile;
    public PDFToText(String email) throws
SQLException {
        AccessFilename accessDB = new
        AccessFilename();
        accessDB.accessFileDB(email);
        text = ""; allText = ""; finTxt = "";
        currentDirectory =
        System.getProperty("user.dir");
        imgTxtDirectory =
        accessDB.dirImgTxt; pdfDirectory =
        accessDB.dirPDF; fileName =
        accessDB.fileName;
        newTextFile = null; pdfFile = new
        File(pdfDirectory, fileName); //PDF
        file location }
    private String removeSuffix(String
fileName) {
        if (fileName == null) { throw new
        IllegalArgumentException("file name
        == null"); }
        int pos = fileName.lastIndexOf('.');
        if (pos > 0 && pos < fileName.length()
        - 1) { return fileName.substring(0,
        pos); } return fileName; }
    private String usingBufferedReader(File
txtFile) {
        StringBuilder contentBuilder = new
        StringBuilder();
        try (BufferedReader br = new
        BufferedReader(new
        FileReader(txtFile))) { String
sCurrentLine;
            while ((sCurrentLine =
            br.readLine()) != null) {
                contentBuilder.append(sCurrentLine
                ).append("\n"); }
            } catch (IOException e) {
                e.printStackTrace(); } return
                contentBuilder.toString(); }
    private String[] stopWords() {
        File swFile = new
        File(currentDirectory +
        "/src/main/resources/spelling/stopword
        s.txt");
        String stopWordsString =
        usingBufferedReader(swFile);
        String[] stopWordsList =
        stopWordsString.replaceAll("(\\b\\w{1,
        2}\\b|\\s|\"").split(" ");
        try { List<String> stopWordsL = new
        ArrayList<String>(); for (String words
        : stopWordsList) {
            stopWordsL.add(words); }
            stopWordsL =
```

```

stopWordsL.stream().distinct().collect(Collectors.toList());
} catch (Exception e) {
e.printStackTrace();
} return stopWordsList;
}
public void PDFtoTxt() throws IOException, TesseractException {
fileName = removeSuffix(fileName);
PDDocument pdfDocument = new PDDocument();
pdfUploaded = PDDocument.load(pdfFile);
PDFRenderer pdfRenderer = new PDFRenderer(pdfUploaded); // load PDF from the system
int numberOfPages = pdfUploaded.getNumberOfPages(),
maxPagesPerDocu = 2;
try { for (int i = 0; i < numberOfPages; i++) {
int targetSize = 2500; BufferedImage bim =
pdfRenderer.renderImageWithDPI(i, 300, ImageType.GRAY),
bim2 = Scalr.resize(bim, Method.AUTOMATIC,
Mode.AUTOMATIC, targetSize);
bim2.flush(); String filename =
fileName + "_" + i;
File img = new File(imgTxtDirectory, filename +
".tiff"); ImageIO.write(bim2, "tiff",
img);
Tesseract tesseractOCR = new Tesseract();
tesseractOCR.setTessVariable("user _defined_dpi", "300");
tesseractOCR.setDatapath(currentDir
ecitory +
"/src/main/resources/tessdata");
tesseractOCR.setLanguage("eng");
tesseractOCR.setOcrEngineMode(2);
text = tesseractOCR.doOCR(img);
text =
text.toLowerCase().replaceAll("[^a-zA-Z0-9]", " ")
.replaceAll("\s+", " ")
.replaceAll("\b\w{1,2}\s", "");
if (numberOfPages <=
maxPagesPerDocu) {
if (i == 0) { newTextFile = new File(imgTxtDirectory, fileName +
".txt"); FileWriter fw = new
FileWriter(newTextFile);
fw.write(text + "\n\n"); fw.close();
} else if (i > 0 && i <
numberOfPages) { FileWriter fw =
new FileWriter(newTextFile, true);
fw.write(text + "\n\n"); fw.close();
} else {
if (i == 0) { newTextFile = new
File(imgTxtDirectory, fileName +
".txt"); FileWriter fw = new
FileWriter(newTextFile);
fw.write(text + "\n\n"); fw.close();
} else if (i > 0 && i <=
maxPagesPerDocu - 1) { FileWriter fw =
new FileWriter(newTextFile,
true); fw.write(text + "\n\n");
fw.close(); } } img.delete();
System.gc();
}
} catch (Exception e) {
e.printStackTrace(); } finally {
pdfDocument.close(); }
public void stopwordRemovalRaw()
throws IOException {
text =
usingBufferedReader(newTextFile);
String[] stopWordsList = stopWords();
String[] wordsText =
text.replaceAll("\b\w{1,2}\s",
"").split(" ");
List<String> textWords =
new ArrayList<String>();
for (String words: wordsText) {
textWords.add(words);
}
textWords =
textWords.stream().distinct().collect(Collectors.toList()); int maxWords =
155;
if (textWords.size() > maxWords) {
textWords = textWords.subList(0,
maxWords - 1);
}
for (int i = 0; i < textWords.size(); i++) {
for (int j = 0; j <
stopWordsList.length; j++) {
if
(textWords.contains(stopWordsList[j])) {
textWords.remove(stopWordsList[j]);
} }
}
FileWriter fw = new
FileWriter(newTextFile, false);
for (String str : textWords) { String
wordsRaw = str + " "; fw = new
FileWriter(newTextFile, true);
fw.write(wordsRaw); fw.close(); }
System.gc();
}
public void nlpTechniques() {
SpellCorrection spCorrect = new
SpellCorrection(); allText =
usingBufferedReader(newTextFile);
try {
StanfordCoreNLP stanfordCoreNLP =
Pipeline.getPipeline(); int flag = 0;
String str;
Trie trie = new Trie(); File dictionary =
new File(currentDirectory +
"/src/main/resources/spelling/words_
alpha.txt");
BufferedReader br = new
BufferedReader(new
FileReader(dictionary));
HashSet<String> hs = new
HashSet<String>();
try { while ((str = br.readLine()) !=
null) {
if (hs.add(str)) {
trie.insert(str.replaceAll("\p{Punc
t}", "").replaceAll("\s+", ""));
.replaceAll("[^a-zA-Z0-9]", "");
}} br.close();
} catch (Exception e) {
e.printStackTrace();
str = ""; String[] wordsText =
allText.split(" ");
for (int j = 0; j < wordsText.length;
j++) { boolean check =
trie.search(wordsText[j]);
if (!check) { flag = 1; str = "";
int edits, max = Integer.MAX_VALUE;
for (String s : hs) { edits =
spCorrect.editDistance(wordsText[j],
s); if (edits < max) { max = edits; str
= s; } } wordsText[j] = str;
} }
if (flag == 1) { allText =
String.join(" ", wordsText); } else {
}
allText =
allText.replaceAll("\b\w{1,2}\s",
"");
finTxt = ""; CoreDocument
coreDocument = new
CoreDocument(allText);
stanfordCoreNLP.annotate(coreDocu
ment); List<CoreLabel>
coreLabelList =
coreDocument.tokens();
for (CoreLabel coreLabel : coreLabelList) { String
wordsLemma = coreLabel.lemma()
+ " "; finTxt +=
wordsLemma.replaceAll(allText,
wordsLemma); }
String[] stopWordsList =
stopWords(); String[]
wordsTextNLP = finTxt.split(" ");
List<String> textWordsNLP = new
ArrayList<String>();
for (String words: wordsTextNLP) {
textWordsNLP.add(words);
}
textWordsNLP =
textWordsNLP.stream().distinct().col
lect(Collectors.toList());
for (int i = 0; i <
textWordsNLP.size(); i++) {
for (int j = 0; j <
stopWordsList.length; j++) {
if
(textWordsNLP.contains(stopW
ordsList[j])) {
textWordsNLP.remove(stopW
ordsList[j]); } }
}
FileWriter fw = new
FileWriter(newTextFile, false);
String endText = "";
for (String strNLP : textWordsNLP)
{ endText = strNLP + " "; fw = new
FileWriter(newTextFile, true);
fw.write(endText); fw.close(); }
System.gc();
} catch (Exception e) {
e.printStackTrace(); } System.gc(); }
}

```

## PropertiesVariables.java

```

package com.nbc2.part1;
import java.io.IOException; import
java.io.InputStream; import
java.util.Properties;

public class PropertiesVariables {
public Properties getDBProperties() {
Properties propsDB = new Properties();
String fileName =
"properties/db.properties";
InputStream in =
PropertiesVariables.class.getClassLoad
er().getResourceAsStream(fileName);
try { propsDB.load(in); } catch
(IOException ex) {
}
}

```

```

ex.printStackTrace(); } return
propsDB; }
public Properties getQueryProperties() {
Properties propsQry = new
Properties(); String fileNameQuery =
"properties/dbqueries.properties";
InputStream inQuery =
PropertiesVariables.class.getClassLoad
er().getResourceAsStream(fileNameQu
ery);
try { propsQry.load(inQuery); } catch
(IOException ex) {
ex.printStackTrace(); } return
propsQry; } }

```

### Pipeline.java

```

package com.nbc2.part1.spelling;
import
edu.stanford.nlp.pipeline.StanfordCoreN
LP; import java.util.Properties;

public class Pipeline {
private static Properties properties;
private static String propertiesName =
"tokenize, ssplit, pos, lemma, ner,
parse, sentiment"; private static
StanfordCoreNLP stanfordCoreNLP;
private Pipeline() { }
static { properties = new Properties();
properties.setProperty("annotators",
propertiesName); }
public static StanfordCoreNLP
getPipeline() {
if(stanfordCoreNLP == null) {
stanfordCoreNLP = new
StanfordCoreNLP(properties); } return
stanfordCoreNLP; } }

```

### SpellCorrection.java

```

package com.nbc2.part1.spelling;

public class SpellCorrection {
public int editDistance(String word1,
String word2) {
int m = word1.length(),
n=word2.length(); int[][] dist = new
int[m+1][n+1];
for(int i=0; i<=m; i++) {
for(int j=0; j<=n; j++) {
if(i==0) { dist[i][j] = j;
} else if(j==0) { dist[i][j] = i;
} else if(word1.charAt(i-1) ==
word2.charAt(j-1)) { dist[i][j] =
dist[i-1][j-1];
} else if(word1.charAt(i-1) !=
word2.charAt(j-1)) { dist[i][j] = 1
+ Math.min(Math.min(dist[i-1][j],
dist[i-1][j-1]), dist[i-1][j-1]); } } }
return dist[m][n]; } }

```

### Trie.java

```

package com.nbc2.part1.spelling;

public class Trie {
TrieNode root = new TrieNode();
public void insert(String word) {
TrieNode path = root;

```

```

for(int i = 0; i < word.length(); i++) {
int index = word.charAt(i) -
'a';
if(path.children[index] == null) {
path.children[index] = new
TrieNode();
path.children[index].value =
word.charAt(i); } path =
path.children[index]; } path.isWord
= true; }

public boolean search(String word) {
TrieNode path = root; for(int i = 0; i <
word.length(); i++) {
int index = word.charAt(i) - 'a';
if(index<0) { return word != null; }
if(path.children[index] == null) {
return false; }
path = path.children[index]; }
return(path != null && path.isWord); }
}

```

### TrieNode.java

```

package com.nbc2.part1.spelling;

public class TrieNode {
final int ALPHABETS_SIZE = 26; char
value; boolean isWord;
TrieNode[] children = new
TrieNode[ALPHABETS_SIZE]; { value
= 0; isWord=false;
for(int i = 0; i<ALPHABETS_SIZE;i++)
{ children[i] = null; } } }

```

### NBC2. MLtoDB

#### MainPart2.java

```

package com.nbc2.part2;
import
org.springframework.boot.autoconfigure.
SpringBootApplication; import
com.nbc2.part2.service.DBConnect;
@SpringBootApplication

```

```

public class MainPart2 {
public static void main(String[] args)
throws Exception {
long startTime = System.nanoTime();
Runtime runtime =
Runtime.getRuntime();
long memoryMax =
runtime.maxMemory() / 1_000_000;
//MB String email = args[0];
DBConnect dbUpdate = new
DBConnect(email);
dbUpdate.connectDB(email);
System.gc();
long endTime = System.nanoTime();
double execTimeInSecs = (long)
(endTime - startTime) /
1_000_000_000;
double inMinutes = execTimeInSecs /
60;
System.out.println("\nThe program
took " + execTimeInSecs + " seconds
or " + inMinutes + " minutes to
execute.");
long memoryUsed =
(runtime.totalMemory() -
runtime.freeMemory()) / 1_000_000;
//in MB
}

```

```

double memoryUsedPercent =
(memoryUsed * 100.0) / memoryMax;
System.out.println("\nMaximum
memory (in MB): " + memoryMax);
System.out.println("Memory used (in
MB): " + memoryUsed);
System.out.println("Memory used in
percent: " + memoryUsedPercent);
System.gc(); } }

```

### KeywordsDB.java

```

package com.nbc2.part2.database;
import java.sql.Connection; import
java.sql.PreparedStatement; import
java.sql.ResultSet; import
java.sql.SQLException; import
java.util.ArrayList; import
java.util.Collections; import
java.util.List; import java.util.Properties;
import java.util.stream.Collectors; import
com.nbc2.part2.service.PropertiesVariabl
es;

```

```

public class KeywordsDB {
private String queryKW,
queryLocationNat, queryLocationInter,
allKeywords, spec_cat, locationNat,
locationInter;
private List<String> listKW,
listLocationNat, listLocationInter;
private PreparedStatement prstmtKW,
prstmtLocationNat,
prstmtLocationInter; public boolean
locNatMatch, locInterMatch; private
Properties propsQryKWL; public
String specificCat; int matchKW = 0;
public KeywordsDB() throws
SQLException {
PropertiesVariables propsVars = new
PropertiesVariables();
propsQryKWL =
propsVars.getQueryProperties();
public void queryCombinedKW(String
semi_cat) { String qryKW1 =
propsQryKWL.getProperty("qry.kw
1"), qryKW2 =
propsQryKWL.getProperty("qry.kw
2"), qryKW3 =
propsQryKWL.getProperty("qry.kw
3");
String addqryKW = "WHERE
(semi_spec = " + semi_cat + ")"
GROUP BY spec_cat;" ;
if (semi_cat.startsWith("1.")) {
queryKW = qryKW1 + addqryKW;
} else if (semi_cat.startsWith("2.")) {
queryKW = qryKW2 + addqryKW;
} else if (semi_cat.startsWith("3.")) {
queryKW = qryKW3 + addqryKW; } }
public void getAllKeywords(String
semi_cat, Connection conn, List<String>
textFile) throws SQLException {
prstmtKW =
conn.prepareStatement(queryKW);
String queryNewTable =
propsQryKWL.getProperty("qry.acc
NewKW");
PreparedStatement KWstatement =
conn.prepareStatement(queryNewTabl
e,

```

```

ResultSet.TYPE_SCROLL_SENSITIVE,
E,
ResultSet.CONCUR_READ_ONLY);
boolean isResult = prstmtKW.execute()
& KWstatement.execute();
do { try (ResultSet accessKW =
KWstatement.getResultSet();) { while
(accessKW.next()) {
    allKeywords =
    accessKW.getString("Keywords");
    spec_cat =
    accessKW.getString("spec_cat");
    spec_cat =
    spec_cat.toLowerCase().replaceAll(
"\s+", " ");
    String[] listAll =
    allKeywords.toLowerCase().replace
    All("[^a-zA-Z0-9]", " ")
    .replaceAll("\s+", " ").split(" ");
    listKW = new ArrayList<String>();
    for (String words : listAll) {
    listKW.add(words);
    }
    listKW =
    listKW.stream().distinct().collect(Co
    llectors.toList());
    Collections.sort(listKW);
    System.out.println("\n" + spec_cat +
    " category: ");
    boolean kwMatch =
    listKW.stream().anyMatch(textFile::
    contains);
    if (kwMatch == true) {
    textFile =
    textFile.stream().distinct().collect(Co
    llectors.toList());
    listKW.addAll(textFile);
    System.out.println("Number of
    keywords matched: " +
    listKW.size());
    System.out.println("Matched: " +
    listKW.toString());
    if (listKW.size() > matchKW) {
    matchKW = listKW.size();
    specificCat = spec_cat; } } }
} isResult =
prstmtKW.getMoreResults();
} while (isResult);
System.out.println("\nHighest
matched: " + matchKW);
public void getLocation(String semi_cat,
Connection conn, List<String> textFile)
throws SQLException {
// With local, national, and international:
3.2.1, 3.2.2, 3.3.3, 3.4
queryLocationNat =
propsQryKWL.loc.getQuery("qry.locNa
t");
queryLocationInter =
propsQryKWL.loc.getQuery("qry.locInt
");
prstmtLocationNat =
conn.prepareStatement(queryLocationNat
);
prstmtLocationInter =
conn.prepareStatement(queryLocationInt
er);
boolean isResult =
prstmtLocationNat.execute() &
prstmtLocationInter.execute();
do { try (ResultSet accessLocationNat =
prstmtLocationNat.getResultSet();
ResultSet accessLocationInter =
prstmtLocationInter.getResultSet(); }

while (accessLocationNat.next() &
accessLocationInter.next()) {
try {
    locationNat =
    accessLocationNat.getString("national"
    );
    locationInter =
    accessLocationInter.getString("internat
    ional");
    String[] listLocNat =
    locationNat.toLowerCase().replaceAll(
"[^a-zA-Z0-9]", " ")
    .replaceAll("\b\w{1,2}\b",
    "").split(" ");
    listLocationNat = new
    ArrayList<String>();
    for (String words : listLocNat)
    {listLocationNat.add(words); }
    listLocationNat =
    listLocationNat.stream().distinct().colle
    ct(Collectors.toList());
    Collections.sort(listLocationNat);
    String[] listLocInter =
    locationInter.toLowerCase().replaceAll(
"[^a-zA-Z0-9]", " ")
    .replaceAll("\b\w{1,2}\b",
    "").split(" ");
    listLocationInter = new
    ArrayList<String>();
    for (String words : listLocInter)
    {listLocationInter.add(words); }
    listLocationInter =
    listLocationInter.stream().distinct().coll
    ect(Collectors.toList());
    Collections.sort(listLocationInter); }
    catch (Exception e) {
    e.printStackTrace(); }
} isResult =
prstmtLocationNat.getMoreResults()
&&
prstmtLocationInter.getMoreResults();
} while (isResult);
locNatMatch =
textFile.stream().anyMatch(listLocatio
nNat::contains);
locInterMatch =
textFile.stream().anyMatch(listLocatio
nInter::contains);
if
(specificCat.matches("(3.1.3|3.2.1.1|
3.2.1.3|3.2.2.1|3.2.2.2|3.3.3|3.4).*)"))
{
System.out.println("\nInternational?:
" + locInterMatch);
System.out.println("National/Local?:
" + locNatMatch);
textFile =
textFile.stream().distinct().collect(Co
llectors.toList());
Collections.sort(textFile);
if (locInterMatch == true) {
= specificCat.substring(0,
specificCat.length() - 1);
specificCat = specificCat + "a";
textFile.addAll(listLocationInter);
System.out.println("International
Location(s) matched: " +
textFile.toString());
} else if (locNatMatch == true) {
specificCat =
specificCat.substring(0,
specificCat.length() - 1);
specificCat = specificCat + "b";
textFile.addAll(listLocationNat);
System.out.println("National
Location(s) matched: " +
textFile.toString());
} specificCat =
specificCat.substring(0,
specificCat.length() - 1);
specificCat = specificCat + "c";
}
specificCat = specificCat + "b";
textFile.addAll(listLocationNat);
System.out.println("Local
Location(s) matched: " +
textFile.toString());
} else { specificCat =
specificCat.substring(0,
specificCat.length() - 1);
specificCat = specificCat + "c"; } } } }

NameDateDB.java
package com.nbc2.part2.database;
import java.sql.SQLException; import
java.util.ArrayList; import
java.util.Collections; import
java.util.List;
import java.util.Properties; import
java.util.stream.Collectors; import
com.nbc2.part2.service.AccessFileValues
; import
com.nbc2.part2.service.PropertiesVariabl
es;

public class NameDateDB {
    public boolean isYearInCycle,
    isMonthInCycle, isNameFound;
    private List<String> cycleYear,
    cycleMonth; private Properties
    propsCycle; public NameDateDB() {
    PropertiesVariables propsVar = new
    PropertiesVariables(); propsCycle =
    propsVar.getNBCCycleProperties(); }
    public void findYear(List<String>
    textFind, String email) throws
    SQLException {
        AccessFileValues accessDB = new
        AccessFileValues();
        accessDB.getUserStatus(email);
        String cycleYr1 =
        propsCycle.getProperty("cycle.year1"),
        cycleYr2 =
        propsCycle.getProperty("cycle.year2"),
        cycleYr3 =
        propsCycle.getProperty("cycle.year3"),
        cycleYr4 =
        propsCycle.getProperty("cycle.year4");
        String cycleMonth1 =
        propsCycle.getProperty("cycle.month1
        "), cycleMonth2 =
        propsCycle.getProperty("cycle.month2
        "), cycleMonth3 =
        propsCycle.getProperty("cycle.month3
        "), cycleMonth4 =
        propsCycle.getProperty("cycle.month4
        "), cycleMonth5 =
        propsCycle.getProperty("cycle.month5
        "), cycleMonth6 =
        propsCycle.getProperty("cycle.month6
        "), cycleMonth7 =
        propsCycle.getProperty("cycle.month7
        "), cycleMonth8 =
        propsCycle.getProperty("cycle.month8
        "), cycleMonth9 =
        propsCycle.getProperty("cycle.month9
        "), cycleMonth10 =
        propsCycle.getProperty("cycle.month10
        "), cycleMonth11 =
        propsCycle.getProperty("cycle.month11
        "), cycleMonth12 =
        propsCycle.getProperty("cycle.month12
        ");
    }
}

```

```

2");
cycleYear = new
ArrayList<String>();
cycleYear.add(cycleYr1);
cycleYear.add(cycleYr2);
cycleYear.add(cycleYr3);
cycleYear.add(cycleYr4); cycleMonth
= new ArrayList<String>();
cycleMonth.add(cycleMonth1);
cycleMonth.add(cycleMonth2);
cycleMonth.add(cycleMonth3);
cycleMonth.add(cycleMonth4);
cycleMonth.add(cycleMonth5);
cycleMonth.add(cycleMonth6);
cycleMonth.add(cycleMonth7);
cycleMonth.add(cycleMonth8);
cycleMonth.add(cycleMonth9);
cycleMonth.add(cycleMonth10);
cycleMonth.add(cycleMonth11);
cycleMonth.add(cycleMonth12);
isYearInCycle =
cycleYear.stream().anyMatch(textFind
:: contains);
isMonthInCycle=
cycleMonth.stream().anyMatch(textFin
d :: contains);
textFind =
textFind.stream().distinct().collect(Coll
ectors.toList());
Collections.sort(textFind);
if (accessDB.userStatus.equals("old"))
{
    if ((isYearInCycle == true) ||
((isMonthInCycle == true))) {
        cycleYear.addAll(cycleMonth);
        textFind retainAll(cycleYear);
        System.out.println("\nDocument
accepted for the cycle, text matched!:
" + textFind.toString());
    } else {
        System.out.println("\nYear/Month
not found"); } } else {} }
public void findName(List<String>
textFind, String lName, String fName) {
    String[] fName =
    fname.toLowerCase().split(" ");
    List<String> firstName = new
    ArrayList<String>();
    for (String words : fName) {
        firstName.add(words); }
    firstName =
    firstName.stream().distinct().collect(Co
    llectors.toList());
    String[] lName =
    lName.toLowerCase().split(" ");
    List<String> lastName = new
    ArrayList<String>();
    for (String words : lName) {
        lastName.add(words); }
    lastName =
    lastName.stream().distinct().collect(Co
    llectors.toList()); List<String> names =
    new ArrayList<String>(2);
    names.addAll(firstName);
    names.addAll(lastName);
    isNameFound =
    names.stream().anyMatch(textFind ::
contains);
    textFind =
    textFind.stream().distinct().collect(Coll
ectors.toList());
    Collections.sort(textFind);
    if (isNameFound == true) {
        textFind retainAll(names);
        System.out.println("\nSurname/First
Name found: " + textFind.toString());
    } else {
        System.out.println("\nSurname/First
Name not found"); } } }
}

PointsDB.java
package com.nbc2.part2.database;
import java.math.BigDecimal; import
java.sql.CallableStatement; import
java.sql.Connection; import
java.sql.PreparedStatement; import
java.sql.ResultSet; import
java.sql.SQLException; import
java.sql.Timestamp; import
java.util.Date; import java.util.Properties;
import
com.nbc2.part2.service.AccessFileValues
;
import
com.nbc2.part2.service.PropertiesVariabl
es;

public class PointsDB {
    private String colRaw, colEquiv,
    queryUpdate, procedureCalled,
    procedureCalled1, procedureCalled2,
    procedureCalled3, procedureCalled4,
    procedureCalled5; private Timestamp
    updateTime; int category; private
    PreparedStatement prstnPoints;
    private BigDecimal rawpt, equivpt;
    private Properties propsQryPtsDB;
    public PointsDB() throws SQLException
    { PropertiesVariables propsVars = new
    PropertiesVariables();
    propsVars.getDBProperties();
    propsQryPtsDB =
    propsVars.getQueryProperties(); }
    public void
    addRecordUserArch(Connection conn,
    String email, String fName, String
    lName, String department, String
    fName, String specif) throws
    SQLException {
        Date utilDate = new java.util.Date();
        updateTime = new
        Timestamp(utilDate.getTime());
        String userarchiveQry =
        propsQryPtsDB.getProperty("qry.usera
        rh");
        try {
            if (specif.startsWith("1.")) { category
                = 1; }
            else if (specif.startsWith("2.")) {
                category = 2; }
            else if (specif.startsWith("3.")) {
                category = 3; }
            colRaw = "raw_" +
            specif.replace(".", ""); colEquiv =
            "equiv_" + specif.replace(".", "");
            System.out.println("Column for raw
            point: " + colRaw);
            System.out.println("Column for
            equiv point: " + colEquiv);
            PreparedStatement statementArch =
            conn.prepareStatement(userarchiveQ
            ry);
            statementArch.setString(1, email);
            statementArch.setString(2, fName);
            statementArch.setString(3, lName);
            statementArch.setString(4,
            department);
            statementArch.setString(5,
            fName); statementArch.setInt(6,
            category);
            statementArch.setTimestamp(7,
            updateTime);
            statementArch.executeUpdate();
        } catch (SQLException ex) {
            ex.printStackTrace(); } }
    public void getUpdate(String specif,
    String email) {
        String addQry = " WHERE (email = "
        + email + ")";
        if (specif.startsWith("1.")) {
            queryUpdate =
            propsQryPtsDB.getProperty("qry.updat
            e_1") + addQry;
        } else if (specif.startsWith("2.")) {
            queryUpdate =
            propsQryPtsDB.getProperty("qry.updat
            e_2") + addQry;
        } else if (specif.startsWith("3.1.")) {
            queryUpdate =
            propsQryPtsDB.getProperty("qry.updat
            e_31") + addQry;
        } else if (specif.startsWith("3.2.")) {
            queryUpdate =
            propsQryPtsDB.getProperty("qry.updat
            e_32") + addQry;
        } else if (specif.startsWith("3.3.")) {
            queryUpdate =
            propsQryPtsDB.getProperty("qry.updat
            e_33") + addQry;
        } else if (specif.startsWith("3.4") ||
specif.startsWith("3.5") ||
specif.startsWith("3.6")) {
            queryUpdate =
            propsQryPtsDB.getProperty("qry.updat
            e_3456") + addQry; } }
    public void callProcedure(String specif)
    throws SQLException {
        if (specif.startsWith("1.")) {
            procedureCalled =
            propsQryPtsDB.getProperty("qry.pcall
            ed_addDetails"); procedureCalled1 =
            propsQryPtsDB.getProperty("qry.pcall
            ed_1"); procedureCalled2 =
            propsQryPtsDB.getProperty("qry.pcall
            ed2_1");
        } else if (specif.startsWith("2.")) {
            procedureCalled =
            propsQryPtsDB.getProperty("qry.pcall
            ed_addDetails"); procedureCalled1 =
            propsQryPtsDB.getProperty("qry.pcall
            ed_2"); procedureCalled2 =
            propsQryPtsDB.getProperty("qry.pcall
            ed2_2");
        } else if (specif.startsWith("3.1")) {
            procedureCalled =
            propsQryPtsDB.getProperty("qry.pcall
            ed_addDetails"); procedureCalled1 =
            propsQryPtsDB.getProperty("qry.pcall
            ed_31"); procedureCalled2 =
        }
    }
}

```

```

propsQryPtsDB.getProperty("qry.pcall
ed2_31");
} else if (specif.startsWith("3.2")) {
procedureCalled =
propsQryPtsDB.getProperty("qry.pcall
ed_addDetails"); procedureCalled1 =
propsQryPtsDB.getProperty("qry.pcall
ed_32"); procedureCalled2 =
propsQryPtsDB.getProperty("qry.pcall
ed_321"); procedureCalled3 =
propsQryPtsDB.getProperty("qry.pcall
ed2_322"); procedureCalled4 =
propsQryPtsDB.getProperty("qry.pcall
ed2_3223"); procedureCalled5 =
propsQryPtsDB.getProperty("qry.pcall
ed2_32"); //total for 3.2
} else if (specif.startsWith("3.3")) {
procedureCalled =
propsQryPtsDB.getProperty("qry.pcall
ed_addDetails");
procedureCalled1 =
propsQryPtsDB.getProperty("qry.pcall
ed_33"); procedureCalled2 =
propsQryPtsDB.getProperty("qry.pcall
ed2_331"); procedureCalled3 =
propsQryPtsDB.getProperty("qry.pcall
ed2_332"); procedureCalled4 =
propsQryPtsDB.getProperty("qry.pcall
ed2_333"); procedureCalled5 =
propsQryPtsDB.getProperty("qry.pcall
ed2_33"); //total for 3.3
} else if (specif.startsWith("3.4") ||
specif.startsWith("3.5") ||
specif.startsWith("3.6")) {
procedureCalled =
propsQryPtsDB.getProperty("qry.pcall
ed_addDetails"); procedureCalled1 =
propsQryPtsDB.getProperty("qry.pcall
ed_3456");
procedureCalled2 =
propsQryPtsDB.getProperty("qry.pcall
ed2_361"); // total for 3.6.1
procedureCalled3 =
propsQryPtsDB.getProperty("qry.pcall
ed2_3456"); //total for all } }

public void pointingSystem(Connection
conn, String email, String name, String
department, String specif) throws
SQLException {
AccessFileValues accessDB = new
AccessFileValues();
accessDB.getInitPt(email);
String ptsQry3Val = "", ptsQry5Val =
"";
if (specif.startsWith("3")) { if
(specif.startsWith("3.1")) {
try ( CallableStatement
stmtProcedure =
conn.prepareCall(procedureCalled);
CallableStatement stmtProcedure1 =
conn.prepareCall(procedureCalled1);
CallableStatement stmtProcedure2 =
conn.prepareCall(procedureCalled2);
) {
stmtProcedure.setString(1, email);
stmtProcedure.setString(2, name);
stmtProcedure.setString(3,
department);
stmtProcedure.setString(4, specif);
stmtProcedure.execute();
}
ptsQry3Val =
propsQryPtsDB.getProperty("qry.i
npts32");
PreparedStatement
statementInitPts =
conn.prepareStatement(ptsQry3Va
l);
statementInitPts.setBigDecimal(1,
accessDB.cat31_ini);
statementInitPts.setString(2, email);
statementInitPts.setString(3, name);
statementInitPts.executeUpdate();
stmtProcedure1.setString(1, email);
stmtProcedure1.setString(2, name);
stmtProcedure1.setString(3, specif);
stmtProcedure1.execute();
stmtProcedure2.setString(1, email);
stmtProcedure2.setString(2, name);
stmtProcedure2.setString(3, specif);
stmtProcedure2.execute();
stmtProcedure3.setString(1, email);
stmtProcedure3.setString(2, name);
stmtProcedure3.setString(3, specif);
stmtProcedure3.execute();
stmtProcedure4.setString(1, email);
stmtProcedure4.setString(2, name);
stmtProcedure4.setString(3, specif);
stmtProcedure4.execute();
stmtProcedure5.setString(1, email);
stmtProcedure5.setString(2, name);
stmtProcedure5.setString(3, specif);
stmtProcedure5.execute(); }
} else if (specif.startsWith("3.2") ||
specif.startsWith("3.3")) {
try ( CallableStatement
stmtProcedure =
conn.prepareCall(procedureCalled);
CallableStatement stmtProcedure1 =
conn.prepareCall(procedureCalled1);
CallableStatement stmtProcedure2 =
conn.prepareCall(procedureCalled2);
CallableStatement stmtProcedure3 =
conn.prepareCall(procedureCalled3);
CallableStatement stmtProcedure4 =
conn.prepareCall(procedureCalled4);
CallableStatement stmtProcedure5 =
conn.prepareCall(procedureCalled5);
) {
stmtProcedure.setString(1, email);
stmtProcedure.setString(2, name);
stmtProcedure.setString(3,
department);
stmtProcedure.setString(4, specif);
stmtProcedure.execute();
}
ptsQry5Val =
propsQryPtsDB.getProperty("qry.i
npts32");
PreparedStatement
statementInitPts =
conn.prepareStatement(ptsQry5Va
l);
statementInitPts.setBigDecimal(1,
accessDB.cat34_ini);
statementInitPts.setBigDecimal(2,
accessDB.cat35_ini);
statementInitPts.setBigDecimal(3,
accessDB.cat36_ini);
statementInitPts.setString(4, email);
statementInitPts.setString(5,
name);
statementInitPts.executeUpdate();
} else if (specif.startsWith("3.3")) {
ptsQry3Val =
propsQryPtsDB.getProperty("qry.ini
pts32");
PreparedStatement
statementInitPts =
conn.prepareStatement(ptsQry3Val);
statementInitPts.setBigDecimal(1,
accessDB.cat33_ini);
statementInitPts.setString(2, email);
statementInitPts.setString(3, name);
statementInitPts.executeUpdate();
stmtProcedure1.setString(1, email);
stmtProcedure1.setString(2, name);
stmtProcedure1.setString(3, specif);
stmtProcedure1.execute();
stmtProcedure2.setString(1, email);
stmtProcedure2.setString(2, name);
stmtProcedure2.setString(3, specif);
stmtProcedure2.execute();
stmtProcedure3.setString(1, email);
stmtProcedure3.setString(2, name);
stmtProcedure3.execute(); }
} else { // For 3.4, 3.5, 3.6
try ( CallableStatement stmtProcedure
= conn.prepareCall(procedureCalled);
CallableStatement stmtProcedure1 =
conn.prepareCall(procedureCalled1);
CallableStatement stmtProcedure2 =
conn.prepareCall(procedureCalled2);
CallableStatement stmtProcedure3 =
conn.prepareCall(procedureCalled3);
CallableStatement stmtProcedure4 =
conn.prepareCall(procedureCalled4);
CallableStatement stmtProcedure5 =
conn.prepareCall(procedureCalled5);
) {
stmtProcedure.setString(1, email);
stmtProcedure.setString(2, name);
stmtProcedure.setString(3,
department);
stmtProcedure.setString(4, specif);
stmtProcedure.execute();
}
ptsQry5Val =
propsQryPtsDB.getProperty("qry.ini
pts3456");
PreparedStatement statementInitPts
=
conn.prepareStatement(ptsQry5Val);
statementInitPts.setBigDecimal(1,
accessDB.cat34_ini);
statementInitPts.setBigDecimal(2,
accessDB.cat35_ini);
statementInitPts.setBigDecimal(3,
accessDB.cat36_ini);
statementInitPts.setString(4, email);
statementInitPts.setString(5, name);
statementInitPts.executeUpdate();
stmtProcedure1.setString(1, email);
stmtProcedure1.setString(2, name);
stmtProcedure1.setString(3, specif);
stmtProcedure1.execute();
stmtProcedure2.setString(1, email);
stmtProcedure2.setString(2, name);
stmtProcedure2.setString(3, specif);
stmtProcedure2.execute();
stmtProcedure3.setString(1, email);
stmtProcedure3.setString(2, name);
stmtProcedure3.execute(); }
} else { PreparedStatement
statementInitPts =
conn.prepareStatement(ptsQry3Val);
statementInitPts.setBigDecimal(1,
accessDB.cat33_ini);
statementInitPts.setString(2, email);
statementInitPts.setString(3, name);
statementInitPts.executeUpdate();
stmtProcedure1.setString(1, email);
stmtProcedure1.setString(2, name);
stmtProcedure1.setString(3, specif);
stmtProcedure1.execute();
stmtProcedure2.setString(1, email);
stmtProcedure2.setString(2, name);
stmtProcedure2.setString(3, specif);
stmtProcedure2.execute();
stmtProcedure3.setString(1, email);
stmtProcedure3.setString(2, name);
stmtProcedure3.execute(); }
}

```

```

stmtProcedure3.setString(3, specif);
stmtProcedure3.execute(); } }
} else { //For categories: 1, 2
try (CallableStatement stmtProcedure =
conn.prepareCall(procedureCalled);
CallableStatement stmtProcedure1 =
conn.prepareCall(procedureCalled1);
CallableStatement stmtProcedure2 =
conn.prepareCall(procedureCalled2));
{
stmtProcedure.setString(1, email);
stmtProcedure.setString(2, name);
stmtProcedure.setString(3,
department);
stmtProcedure.setString(4, specif);
stmtProcedure.execute();
if (specif.startsWith("1.")) {
ptsQry3Val =
propsQryPtsDB.getProperty("qry.ini
pts1");
PreparedStatement statementInitPts =
conn.prepareStatement(ptsQry3Val);
statementInitPts.setBigDecimal(1,
accessDB.cat1_ini);
statementInitPts.setString(2, email);
statementInitPts.setString(3, name);
statementInitPts.executeUpdate();
} else if (specif.startsWith("2.")) {
ptsQry3Val =
propsQryPtsDB.getProperty("qry.inipts
2");
PreparedStatement statementInitPts =
conn.prepareStatement(ptsQry3Val);
statementInitPts.setBigDecimal(1,
accessDB.cat2_ini);
statementInitPts.setString(2, email);
statementInitPts.setString(3, name);
statementInitPts.executeUpdate(); }
stmtProcedure1.setString(1, email);
stmtProcedure1.setString(2, name);
stmtProcedure1.setString(3, specif);
stmtProcedure1.executeUpdate();
stmtProcedure2.setString(1, email);
stmtProcedure2.setString(2, name);
stmtProcedure2.setString(3, specif);
stmtProcedure2.executeUpdate(); } })
public void checkUpdate(Connection
conn, String specif) throws
SQLException {
prstmtPoints =
conn.prepareStatement(queryUpdate);
boolean isResult =
prstmtPoints.execute();
do { try (ResultSet accessUpdate =
prstmtPoints.getResultSet();) { while
(accessUpdate.next()) {
try { String email =
accessUpdate.getString("email");
lastUpdate =
accessUpdate.getString("last_update");
rawpt =
accessUpdate.getBigDecimal(colRaw);
equivpt =
accessUpdate.getBigDecimal(colEquiv
);
} catch (SQLException e) {
e.printStackTrace(); } } } isResult =
prstmtPoints.getMoreResults(); } while
(isResult); }

public void updateUserArchComplete
(Connection conn, String specif, String
email, String filename) throws
SQLException {
String userArchUpdate =
propsQryPtsDB.getProperty("qry.usera
rch_ud"); CallableStatement
stmtUserArch =
conn.prepareCall(userArchUpdate);
stmtUserArch.setString(1, specif);
stmtUserArch.setString(2, email);
stmtUserArch.setString(3, filename);
stmtUserArch.execute(); System.gc();
}

public void updateUserArchOthers
(Connection conn, String email, String
fName, String lName, String department,
String fileName, String notFound) throws
SQLException {
String userArchAddOthers =
propsQryPtsDB.getProperty("qry.usera
rchAdd");
String userArchUpdate =
propsQryPtsDB.getProperty("qry.usera
rch_ud_others"); category = 0;
Date utilDate = new java.util.Date();
updateTime = new
Timestamp(utilDate.getTime());
PreparedStatement statementArchAdd
=
conn.prepareStatement(userArchAddO
thers);
statementArchAdd.setString(1, email);
statementArchAdd.setString(2,
fName);
statementArchAdd.setString(3,
lName);
statementArchAdd.setString(4,
department);
statementArchAdd.setString(5,
fileName); statementArchAdd.setInt(6,
category);
statementArchAdd.setTimestamp(7,
updateTime);
statementArchAdd.execute();
CallableStatement
stmtUserArchUpdate =
conn.prepareCall(userArchUpdate);
stmtUserArchUpdate.setString(1,
notFound);
stmtUserArchUpdate.setString(2,
email);
stmtUserArchUpdate.setString(3,
fileName);
stmtUserArchUpdate.execute(); }

void queryGeneralKW(String semi_cat) {
Properties props =
getQueriesProperties();
String qryGKW1 =
props.getProperty("qry.gkw1"),
qryGKW2 =
props.getProperty("qry.gkw2"),
qryGKW3 =
props.getProperty("qry.gkw3"); String
addqryKW = "WHERE (semi_spec = "
+ semi_cat + ") GROUP BY
spec_cat;";
if (semi_cat.startsWith("1.")) {
queryGeneralKW = qryGKW1 +
addqryKW;
} else if (semi_cat.startsWith("2.")) {
queryGeneralKW = qryGKW2 +
addqryKW;
} else if (semi_cat.startsWith("3.")) {
queryGeneralKW = qryGKW3 +
addqryKW; }

void querySpecificKW(String semi_cat)
{ Properties props =
getQueriesProperties();
String qrySKW1 =
props.getProperty("qry.skw1"),
qrySKW2 =
props.getProperty("qry.skw2"),
qrySKW3 =
props.getProperty("qry.skw3"); String
addqryKW = "WHERE (semi_spec = "
+ semi_cat + ") GROUP BY
spec_cat;";
if (semi_cat.startsWith("1.")) {
querySpecificKW = qrySKW1 +
addqryKW;
} else if (semi_cat.startsWith("2.")) {
querySpecificKW = qrySKW2 +
addqryKW;
} else if (semi_cat.startsWith("3.")) {
querySpecificKW = qrySKW3 +
addqryKW; } }

AccessFilesValues.java
package com.nbc2.part2.service;
import java.math.BigDecimal; import
java.sql.Connection; import
java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet; import
java.sql.SQLException;
import java.util.Properties;

public class AccessFileValues extends
PropertiesVariables {
public String urlDB, userDB, passDB,
dirPDF, dirImgTxt, userStatus,
fileName, fName, lName, department;
public BigDecimal cat1_ini, cat2_ini,
cat3_ini, cat31_ini, cat32_ini,
cat321_ini, cat322_ini, cat33_ini,
cat34_ini, cat35_ini, cat36_ini; public
Connection conn;
}

```



```

if ((ndDB.isYearInCycle == true)
|| (ndDB.isNameFound == true)) {
    kwDB.queryCombinedKW(semisp
ec_category);
    kwDB.getAllKeywords(semisp
ec_category, conn, textTokens);
    kwDB.getLocation(semisp
ec_category, conn, textTokens);
    specificCategory =
        kwDB.getSpecificCat;
    ptsDB.addRecordUserArch(conn,
                           email, fName, lName, department,
                           fileName, specificCategory);
    ptsDB.getUpdate(specificCategory
                    , email);
    ptsDB.callProcedure(specificCateg
ory);
    ptsDB.pointingSystem(conn,
                         email, name, department,
                         specificCategory);
    ptsDB.checkUpdate(conn,
                      specificCategory);
    ptsDB.updateUserArchComplete(c
onn, specificCategory, email,
                               fileName); textFileDir.delete();
    System.gc();
} else if ((ndDB.isNameFound != true)) { String notFound = "NNF";
    ptsDB.updateUserArchOthers(conn,
                               email, fName, lName, department,
                               fileName, notFound);
    textFileDir.delete(); System.gc();
    System.exit(0); } }
} catch (Exception e) {
e.printStackTrace();
System.out.println(e); System.gc(); }
conn.close(); }

System.getProperty("user.dir"); String
modelLoc = currentDir +
"/src/main/resources/machine_learning
/model";
modelDir = new File(modelLoc,
"semispecificAll_nbcNaiveBayes.dat")
;
}
private String removeSuffix(String
fileName) {
if (fileName == null) { throw new
IllegalArgumentException("file name
== null"); }
int pos = fileName.lastIndexOf('.');
if (pos > 0 && pos < fileName.length()
- 1) { return fileName.substring(0,
pos); } return fileName; }
private String usingBufferedReader(File
txtFile) {
StringBuilder contentBuilder = new
StringBuilder();
try (BufferedReader br = new
BufferedReader(new
FileReader(txtFile))) {
    String sCurrentLine; while
((sCurrentLine = br.readLine()) !=
null) {
        contentBuilder.append(sCurrentLine
).append("\n"); }
} catch (IOException e) {
e.printStackTrace(); } return
contentBuilder.toString(); }
public void loadModel() {
String fileName = modelDir.toString();
try { ObjectInputStream in = new
ObjectInputStream(new
FileInputStream(fileName)); Object
tmp = in.readObject(); classifier =
(FilteredClassifier) tmp; in.close(); }
catch (Exception e) {
System.out.println("Problem found
when reading: " + fileName); } }
public void makeInstance() {
String txtFile =
removeSuffix(filenameDB); txtFile =
new File(txtDir, txtFile + ".txt");
textProcessed =
usingBufferedReader(txtFile);
ArrayList<String> attSemispecific =
new ArrayList<String>(26);
attSemispecific.add("1.1.1");
attSemispecific.add("1.1.2");
attSemispecific.add("1.1.3");
attSemispecific.add("1.1.4");
attSemispecific.add("1.1.5");
attSemispecific.add("1.1.6");
attSemispecific.add("1.2.1");
attSemispecific.add("1.2.2");
attSemispecific.add("1.3.1");
attSemispecific.add("2.1.1");
attSemispecific.add("2.1.2");
attSemispecific.add("2.2");
attSemispecific.add("2.3.1");
attSemispecific.add("2.3.2");
attSemispecific.add("3.1.1");
attSemispecific.add("3.1.2");
attSemispecific.add("3.1.3");
attSemispecific.add("3.1.4");
attSemispecific.add("3.2.1");
attSemispecific.add("3.2.2");
attSemispecific.add("3.3.1");
}
}

attSemispecific.add("3.3.2");
attSemispecific.add("3.3.3");
attSemispecific.add("3.4");
attSemispecific.add("3.5.1");
attSemispecific.add("3.6.1");
Attribute attribute1 = new
Attribute("specific_subcat",
attSemispecific);
Attribute attribute2 = new
Attribute("text", (List<String>) null);
ArrayList<Attribute>
fvWekaAttributes = new
ArrayList<Attribute>(2);
fvWekaAttributes.add(attribute1);
fvWekaAttributes.add(attribute2);
instances = new Instances("Test
relation", fvWekaAttributes, 1);
instances.setClassIndex(0);
// Create and add the instance
DenseInstance instance = new
DenseInstance(2);
instance.setValue(attribute2,
textProcessed); }
public void classify() {
try { double pred =
classifier.classifyInstance(instances.ins
tance(0)); semisp
ec_category =
instances.classAttribute().value((int)
pred);
if (semisp
ec_category.equals("1.1.1"))
{ semisp
ec_category = "0"; }
String classifierName = "NaiveBayes";
System.out.println("Class predicted: "
+ semisp
ec_category);
} catch (Exception e) {
System.out.println("Problem found
when classifying the text" + e); } }
}

```

### NBCCategorization.java

```

package com.nbc2.part2.service;
import java.io.BufferedReader; import
java.io.File; import
java.io.FileInputStream; import
java.io.FileReader; import
java.io.IOException; import
java.io.ObjectInputStream; import
java.sql.SQLException; import
java.util.ArrayList; import
java.util.List; import
weka.classifiers.meta.FilteredClassifier;
import weka.core.Attribute; import
weka.core.DenseInstance; import
weka.core.Instances;

public class NBCCategorization extends
AccessFileValues {
    public String semisp
ec_category,
    textProcessed; String filenameDB,
    currentDir, txtDir; public File txtFile,
    modelDir; Instances instances;
    FilteredClassifier classifier;
    public NBCCategorization(String email)
throws SQLException {
    AccessFileValues accessDB = new
    AccessFileValues();
    accessDB.accessFileDB(email);
    filenameDB = accessDB.fileName;
    txtDir = accessDB.dirImgTxt;
    textProcessed = ""; currentDir =
}

```

### PropertiesVariables.java

```

package com.nbc2.part2.service;
import java.io.IOException; import
java.io.InputStream; import
java.util.Properties;

public class PropertiesVariables {
    public Properties getDBProperties() {
        Properties propsDB = new Properties();
        String fileNameDB =
"properties/db.properties";
        InputStream inDB =
PropertiesVariables.class.getClassLoad
er().getResourceAsStream(fileNameD
B);
        try { propsDB.load(inDB); } catch
(IOException ex) {
ex.printStackTrace(); } return
propsDB; }
    public Properties getQueryProperties() {
        Properties propsQry = new
Properties(); String fileNameQuery =
"properties/dbqueries.properties";
        InputStream inQuery =
PropertiesVariables.class.getClassLoad
er().getResourceAsStream(fileNameQu
ery);
        try { propsQry.load(inQuery); } catch
(IOException ex) {
ex.printStackTrace(); } return
propsQry; }
}

```

```

public Properties
getNBCCycleProperties() {
    Properties propsCycle = new
    Properties(); String fileNameCycle =
    "properties/nbccycle.properties";
    InputStream in =
    PropertiesVariables.class.getClassLoad
    er().getResourceAsStream(fileNameCy
    cle);
    try { propsCycle.load(in); } catch
    (IOException ex) {
    ex.printStackTrace(); } return
    propsCycle; } }

```

### NBC2.CallOtherJars

#### AddTimeDB.java

```

package com.nbc2.call;
import java.sql.Connection; import
java.sql.DriverManager; import
java.sql.PreparedStatement;
import java.sql.ResultSet; import
java.sql.SQLException;

public class AddTimeDB {
    String urlDB, userDB, passDB, email,
    filename; Connection conn;
    public AddTimeDB() throws
    SQLException {
        email = ""; filename = ""; urlDB =
        "jdbc:mysql://localhost:3306/nbc2?allo
        wMultiQueries=true";
        userDB = "root"; passDB = "admin";
        conn =
        DriverManager.getConnection(urlDB,
        userDB, passDB); }
    void addTimeDB(double time) throws
    SQLException {
        String dbQuery = "SELECT * FROM
        nbc2.userarchive;"; PreparedStatement
        getValues =
        conn.prepareStatement(dbQuery,
        ResultSet.TYPE_SCROLL_SENSITIV
        E,
        ResultSet.CONCUR_READ_ONLY);
        getValues.executeQuery();
        try (ResultSet accessDB =
        getValues.getResultSet();) {
            if (accessDB.last()) { email =
            accessDB.getString("email");
            filename =
            accessDB.getString("filename"); }
        } catch (Exception e) {
        e.printStackTrace(); }
        String updateTimeQuery = "UPDATE
        nbc2.userarchive SET
        transaction_timesec = ? " + "WHERE
        (email = ? AND filename = ?);";
        PreparedStatement updateTimePS =
        conn.prepareStatement(updateTimeQu
        ery,
        ResultSet.TYPE_SCROLL_SENSITIV
        E,
        ResultSet.CONCUR_READ_ONLY);
        updateTimePS.setDouble(1, time);
        updateTimePS.setString(2, email);
        updateTimePS.setString(3, filename);
        updateTimePS.executeUpdate(); } }

```

#### CallJavaJar.java

```

package com.nbc2.call;
import java.io.*; import
org.springframework.boot.autoconfigure.
SpringBootApplication;
@SpringBootApplication

public class CallJavaJar {
    String callJar1, callJar2; private static
    String email;
    public CallJavaJar() {}
    public static void main(String[] args)
    throws Exception {
        email = args[0];
        System.out.println("Email entered: " +
        email);
        long startTime = System.nanoTime();
        Runtime runtime =
        Runtime.getRuntime();
        long memoryMax =
        runtime.maxMemory() / 1_000_000;
        //MB
        CallJavaJar callJar = new
        CallJavaJar(); callJar.JavaCall1stJar();
        callJar.JavaCall2ndJar(); System.gc();
        long endTime = System.nanoTime();
        double execTimeInSecs = (long)
        (endTime - startTime) /
        1_000_000_000.0;
        double inMinutes = execTimeInSecs /
        60;
        AddTimeDB addTime = new
        AddTimeDB();
        addTime.addTimeDB(execTimeInSecs
        );
        long memoryUsed =
        (runtime.totalMemory() -
        runtime.freeMemory()) / 1_000_000;
        //in MB
        double memoryUsedPercent =
        (memoryUsed * 100.0) / memoryMax;
        System.gc(); }

    void JavaCall1stJar() throws Exception {
        callJar1 = "java -Xms256m -
        Xmx2048m -jar target\\NBC2-
        PDFtoText-0.0.1-SNAPSHOT.jar " +
        email; ProcessBuilder builder = new
        ProcessBuilder("cmd.exe", "/c", "cd
        \"C:\\\\insertdirectory\" && " +
        callJar1);
        builder.redirectErrorStream(true);
        Process p = builder.start();
        BufferedReader r = new
        BufferedReader(new
        InputStreamReader(p.getInputStream()
        ));

        String line; while (true) { line =
        r.readLine(); if (line == null) { break; }
        System.out.println(line); } }

    void JavaCall2ndJar() throws Exception {
        callJar2 = "java -Xms256m -
        Xmx2048m -jar target\\NBC2-
        MLtoDB-0.0.1-SNAPSHOT.jar " +
        email;
        ProcessBuilder builder = new
        ProcessBuilder("cmd.exe", "/c", "cd
        \"C:\\\\insertdirectory\" && " +
        callJar2);
        builder.redirectErrorStream(true);
        Process p = builder.start();
        BufferedReader r = new
        BufferedReader(new
        InputStreamReader(p.getInputStream()
        ));

        String line; while (true) { line =
        r.readLine(); if (line == null) { break; }
        System.out.println(line); } }

```

# Web Application

## Dashboard Folder Files

### about.php

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
            <title>NBC2 iPromote</title>
            <link rel="icon" type="image/png" href="favicon.png">
            <link rel="stylesheet" href="style.css">
            <link rel="stylesheet" href="scroll.css">
                <link rel="stylesheet" href="https://cdn.rawgit.com/mfd/09b70eb47474836f25a21660282ce0fd/raw/e06a670afcb2b861ed2ac4a1ef752d062ef6b46b/Gilroy.css">
                    <style>
                        @media screen and (max-width: 600px){
                            .navbar {
                                height: 40px; font-size: 1.2rem;
                                position: sticky !important;
                            }
                            .navbar__container {
                                display: flex; justify-content: space-between; height:100px; z-index: 1; width: 100%; max-width: 1300px; margin: 0 auto; padding: 0 ;
                            }
                            .nbclogo img{
                                width: 47px; height: 53px; top: -8px !important; left: 10px !important;
                            }
                            #navbar__logo {
                                font-size: 20px; left: 65px !important; height: 20px;
                            }
                            .navbar__menu.active {
                                font-size: 1rem;
                            }
                            #mobile-menu{
                                top: 0px;
                            }
                            body {
                                background-image: url(bg1.jpg); background-position: center; background-size: cover;background-repeat: no-repeat; background-attachment: fixed;
                            }
                        }
                    </style>
                </head>
                <body>
                    <!-- Navigation Bar Section -->
                    <div class="full-page">
                        <nav class="navbar">
                            <div class="navbar__container">
                                <div class="nbclogo">

```

```
                                
                                    </div>
                                    <a href="#home" id="navbar__logo" style="position:absolute; left:100px; top:10px">NBC2 iPromote</a>
                                    <div class="navbar__toggle" id="mobile-menu">
                                        <span class="bar"></span>
                                        <span class="bar"></span>
                                        <span class="bar"></span>
                                    </div>
                                    <ul class="navbar__menu">
                                        <li class="navbar__item">
                                            <a href="index.php" class="navbar__links" id="home-page">Home</a>
                                                </li>
                                        <li class="navbar__item">
                                            <a href="about.php" class="navbar__links" id="about-page">About</a>
                                                </li>
                                        <li class="navbar__item">
                                            <a href="howto.php" class="navbar__links" id="howto-page">Guide</a>
                                                </li>
                                        <li class="navbar__item">
                                            <a href="register.php" class="navbar__links" id="register-page">Register</a>
                                                </li>
                                        <li class="navbar__btn">
                                            <a href="login.php" for='show' class="button" id="login-page">Login</a>
                                                </li>
                                            </ul>
                                            </div>
                                            </nav>
                                        </div>
                                        <div class="about-container">
                                            <div class="about-title">
                                                <div class="about-heading">
                                                    <h1>About</h1>
                                                    <div class="underline"></div>
                                                </div>
                                                <div class="about-content">
                                                    <h3>What is NBC No. 461?</h3>
                                                    <p> National Budget Circular No. 461 (NBC 461) is the current promotion scheme in which faculty members in State Universities and Colleges (SUCs), CHED-supervised Higher Education Institutions (HEIs), and TESDA-supervised Technical Education Institutions (TEIs) are given the opportunity to comply with the requirements and be promoted during and within the promotion cycle. </p>
                                            </div>
                                        </div>

```

```
<div class="about-content">
    <h3>What is NBC2 iPromote?</h3>
    <p>
```

NBC2 iPromote allows the faculty members to have their documents processed and awarded with the corresponding credit points in real-time with the utilization of Machine Learning (ML), Optical Character Recognition (OCR), and the NEM Blockchain Apostille Service.

Allocation of points and rank is in accordance with NBC No. 461-Common Criteria Evaluation (CCE).

A self-service kiosk enables users to scan their hardcopy documents and print their results, which include a detailed summary of points, a NEM Apostille Notarization certificate, and/or a copy of the areas where they are deficient in points.

A web application serves as the user interface of the kiosk and can be accessed remotely.

```
    </p></div>
    </div>
    <div class="about-heading">
        <h1>Our Team</h1>
        <div class="underline"></div>
    </div>
    <div class="about-team">
        <h2>4sight</h2>
        
    </div>
    <div class="about-team-profile">
        <div class="member">
            
            <div class="member-name">Batan, Caroline D.</div>
            <div class="member-role">Back-End Developer</div>
        </div>
        <div class="member">
            
            <div class="member-name">Ignacio, Adrian Rafael</div>
            <div class="member-role">Back-End Developer</div>
        </div>
        <div class="member">
            
            <div class="member-name">Mamayog, Janissah J.</div>
            <div class="member-role">Back-End Developer</div>
        </div>
        <div class="member">
            
            <div class="member-name">Paulino, Chyna A.</div>
        </div>
    </div>
```

```


Full-Stack Developer



Tia, Kristine Anne M.



Web Developer


<script src="app.js"></script>
</body>
</html>

adminhelp.php
<?php
session_start();
$name = $_SESSION["username"];
$userdepartment = $_SESSION["department"];
$status1 = "PENDING (DNWC)";
$status2 = "PENDING (NNF)";
if (isset($_SESSION['username'])) {
    include_once 'server.php';
    if($_SESSION['username'] == 'sight') {
        $sql21 = "SELECT COUNT(*)
FROM userarchive WHERE
(pdf_status='$status1' OR
pdf_status='$status2')";
        $result21=mysqli_query($conn,$sql21);
        $rowCount=mysqli_fetch_row($result21)[0];
    } else{
        $sql21 = "SELECT COUNT(*)
FROM userarchive WHERE
department='$userdepartment' AND
(pdf_status='$status1' OR
pdf_status='$status2')";
        $result21=mysqli_query($conn,$sql21);
        $rowCount=mysqli_fetch_row($result21)[0];
    }
    $sql = "SELECT * FROM
adminlogin WHERE username=?";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt,
    $sql)) {
        header("location:
adminprofilesetting.php?error=stmtfailed
"); exit();
    } else {
        mysqli_stmt_bind_param($stmt,
        "s", $name);
        mysqli_stmt_execute($stmt);
        $sqlImg = "SELECT * FROM
adminprofileimg WHERE username=?";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt,
        $sqlImg)){
            header("location:
adminprofilesetting.php?error=stmtfailed
"); exit();
        } else {
            mysqli_stmt_bind_param($stmt,
            "s",
            $name);
        }
    }
}
mysql_stmt_execute($stmt);
$ResultImg = mysqli_stmt_get_result($stmt);
$resultFetch = mysqli_fetch_assoc($ResultImg);
if ($resultFetch['status'] == 0){
    $defaultImg = "profileimage/profile".$name.
    ".jpg?".mt_rand();
    $_SESSION['profileImg'] = $defaultImg;
} else {
    $defaultImg = "profileimage/defaultimage.jpg";
    $_SESSION['profileImg'] = $defaultImg;
}
} else{
    header("location:
index.php?error=notloggedin");
    exit();
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible"
content="IE=edge">
    <meta name="viewport"
content="width=device-width, initial-
scale=1.0">
    <title>NBC2 iPromote</title>
    <link rel="icon" type="image/png"
href="favicon.png">
    <link rel="stylesheet"
href="https://pro.fontawesome.com/relea-
ses/v5.10.0/css/all.css"
integrity="sha384-
AYmEC3Yw5cVb3ZcuHtOA93w35dYT
svhLPVnYs9eStHfGJvOvKxVfELGroG
kvsg+p" crossorigin="anonymous"/>
    <link rel="stylesheet" href="style.css">
    <link rel="stylesheet"
href="scroll.css">
    <script
src="https://ajax.googleapis.com/ajax/lib-
s/jquery/2.1.1/jquery.min.js"></script>
    <link rel="stylesheet"
href="https://cdn.rawgit.com/mfd/09b70e
b47474836f25a21660282ce0fd/raw/e06a
670afcb2b861ed2ac4a1ef752d062ef6b46
b/Gilroy.css">
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-
KyZXEAg3QhqLMPG8r+8hAXLRk2vv
oC2f3B09zVXn8CA5QIVfZOJ3BCsw2P
0pWe" crossorigin="anonymous">
<style>
    .link-item span:hover {
        background-color: #f0e6da
    }
    color: #d19119 !important;
</style>
<style>

```

/\*ADJUSTMENTS IN THE NAVBAR\*/

@media screen and (max-width: 600px){

```

.navbar {
    height: 40px;
    font-size: 1.2rem;
    position: sticky !important;
}
.navbar__container {
    display: flex;
    justify-content: space-between;
    height: 100px;
    z-index: 1;
    width: 100%;
    max-width: 1300px;
    margin: 0 auto;
    padding: 0 ;
}
nbclogo img{
    width: 47px;
    height: 53px;
    top: -8px !important;
    left: 10px !important;
}
#navbar__logo {
    font-size: 20px;
    left: 65px !important;
    height: 20px;
}
.navbar__menu.active {
    font-size: 1rem;
}
#mobile-menu{
    top: 0px;
}
body {
    background-image:
url(bg1.jpg);
    background-position: center;
    background-size: cover;
    background-repeat: no-repeat;
    background-attachment: fixed;
}
/* ADJUSTMENTS FOR CONTAINER 1 TO DISAPPEAR */
@media screen and (max-width: 600px){
    body{
        background-image: none;
    }
    #container1{
        display: none;
    }
    #container2Inside i{
        font-size: 80px;
    }
    #container2InsideHeading{
        width: 73%;
        height: 100%;
        justify-content: center;
        font-size: 12px;
    }
    .h2,h2{
        font-size: 25px;
    }
}
/* NEW - NAVBAR MENU */
.navbar__links {
```

```

text-align: center;
padding: 0.5rem;
width: 100%;
display: table;
}
.linkk-item{
display: none;
}
.linkk-item{
padding: 5px 20px;
}
.navbar__item {
height: 53px;
}
@media screen and (max-width: 600px){
.linkk-item{
display: unset !important;
}
}
/* ADJUSTMENTS PER PAGE */
@media screen and (max-width: 600px){
#import-header h1{
font-size:30px;
}
.navbar__logo{
top: 10px !important;
}
.notification{
margin-top: -34px !important;
}
}

```

</style>

</head>

<body onload="initClock()">

<!-- Navigation Bar Section -->

<div class="full-page">

<nav class="navbar">

<div class="navbar\_\_container">

<div class="nbclogo">



</div>

<a href="#home" id="navbar\_\_logo" style="position: absolute; left: 100px; top: 5px">NBC2 iPromote</a>

<div class="navbar\_\_toggle" id="mobile-menu">

<span class="bar"></span>

<span class="bar"></span>

<span class="bar"></span>

</div>

<ul class="navbar\_\_menu">

<li class="navbar\_\_item">

<a href="adminprofilesetting.php" class="navbar\_\_links" id="admin-page"><span style="margin-right: 15px"></span><Profile></a>

</li>

<li class="navbar\_\_item">

<a href="adminhelp.php" class="navbar\_\_links" id="admin-page"

>FAQs</a>

</li>

<li class="linkk-item" >

<a href="adminprofile.php" class="navbar\_\_links" id="adminprofile" >Home</a>

</li>

<li class="linkk-item" >

<a href="Training.php" class="navbar\_\_links" id="TrainingView" >Training View</a>

</li>

<li class="linkk-item" >

<a href="Users.php" class="navbar\_\_links" id="UsersView" >Users View</a>

</li>

<li class="linkk-item" >

<a href="pendingfiles.php" class="navbar\_\_links" id="PendingFilesView" >Pending Files</a>

<span id="notification" style="float: right; background-color:#6d1919; border-radius: 5px; color:#f0e6da; padding: 5px 10px 8px 10px; font-size: 12px; margin-top: 0px;"><?php echo \$rowCount; ?></span>

</li>

<li class="linkk-item" >

<a href="validation.php" class="navbar\_\_links" id="ValidationView" >Validation</a>

</li>

<li class="linkk-item" >

<a href="Includes/logout-admin.inc.php" class="navbar\_\_links" id="LogoutBtn" >Logout</a>

</li>

<ul>

</div>

<div id="container2i">

<div id="import-header">

<h1>Frequently Asked Questions (FAQs)</h1>

</div>

<div class="accordion">

<div>

<input type="radio" name="example\_accordion" id="section1" class="accordion\_input">

<label for="section1" class="accordion\_label">How to invite faculty members to join?</label>

<div>

<p>How to invite faculty members to join?</p>

<p>

The admin is the one responsible in sending a pseudocode to the faculty members through the 'Users' page's

'Invite to Join' button (<i class="fas fa-envelope"></i>). Here, the admin will have to enter the TUP email address of the faculty member

and has an option to choose from the list of pre-generated pseudocodes or to generate a new pseudocode.

</p>

</div>

</div>

<div>

<input type="radio" name="example\_accordion" id="section2" class="accordion\_input">

<label for="section2" class="accordion\_label">How to recommend available trainings or events?</label>

```


How to recommend available trainings or events?



The admin is in charge of suggesting or recommending trainings, activities, or seminars in which faculty members can earn more points. They can edit or update the details of the training produced if it was postponed, or they can delete it if it has passed the date or will no longer push through.



Said training must be related to the department's discipline.


```

```

</p>
</div>
</div>
<div>
<input type="radio"
name="exampleAccordion"
id="section3" class="accordion__input">
<label for="section3"
class="accordion__label">What is the purpose of the "Pending Files" page?</label>
<div
class="accordion__content">
<p>What is the purpose of the "Pending Files" page?</p>

```

All pending files of the faculty members within the same department will be subjected to manual checking of the admin. When the 'View and Edit' button is pressed, a modal will appear displaying the selected file. If the file submitted is not valid, the admin would have to click the 'Decline' button of that file. However, if it is valid, the appropriate main category as well as the subcategory in which the document falls under to, must be selected. The system will then automatically award the corresponding credit points to the file.

```

</p>
</div>
</div>
<div>
<input type="radio"
name="exampleAccordion"
id="section4" class="accordion__input">
<label for="section4"
class="accordion__label">What is the 'Validation Section' for?</label>
<div
class="accordion__content">
<p>What is the 'Validation Section' for?</p>

```

Admins or Department Heads are highly encouraged to verify the output of the developed system and, if necessary, classify it into the appropriate category and subcategory. This will aid the proponents in evaluating the accuracy

of the results generated by the developed system. Those files or documents that were awarded points by the system itself, or those with status as 'COMPLETED' originally, will be displayed.

Here, the admin will verify to see if the system accurately classified it into its main and subcategory, as well as if the assigned points were correctly awarded. If the system awarded points to the files despite the fact that they were invalid, the admin must click 'Invalid'. The admin can select yes or no in the 'Accurate' column. 'Yes' if it is correctly classified, and 'No' if it is not, in which the administrator must classify it to its right category.

This section is not included in the NBC2 iPromote system, but was only added for the ease of analyzing the accuracy of the system in developing the research study.

```

</p>
</div>
</div>
</div>
</div>
</div>
</div>
<script type="text/javascript">
function updateClock(){
var now = new Date();
var dname = now.getDay(),
mo = now.getMonth(),
dnum = now.getDate(),
yr = now.getFullYear(),
hou = now.getHours(),
min = now.getMinutes(),
sec = now.getSeconds(),
pe = "AM";
if(hou >= 12){
pe = "PM";
}
if(hou == 0){
hou = 12;
}
if(hou > 12){
hou = hou - 12;
}
Number.prototype.pad =
function(digits){
for(var n = this.toString();
n.length < digits; n = n + n);
return n;
}
var months = ["January",
"February", "March", "April", "May",
"June", "July", "Augest", "September",
"October", "November", "December"];
var week = ["Sunday",
"Monday", "Tuesday", "Wednesday",
"Thursday", "Friday", "Saturday"];
var ids = ["dayname", "month",
"daynum", "year", "hour", "minutes",
"seconds", "period"];

```

```

var values = [week[dname],
months[mo], dnum.pad(2), yr, hou.pad(2),
min.pad(2), sec.pad(2), pe];
for(var i = 0; i < ids.length; i++)
document.getElementById(ids[i]).firstCh
ild.nodeValue = values[i];
}
function initClock(){
updateClock();
window.setInterval("updateClock()", 1);
}
</script>
<script src="app.js"></script>
<script>
$("#notification").filter(function(){
return $(this).text().trim() === "0";
}).hide();
</script>
</body>
</html>

```

## adminlogin.php

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible"
content="IE=edge">
<meta name="viewport"
content="width=device-width, initial-
scale=1.0">
<title>NBC2 iPromote</title>
<link rel="icon" type="image/png"
href="favicon.png">
<link rel="stylesheet" href="style.css">
<link rel="stylesheet" href="https://cdn.rawgit.com/mfd/09b70e
b47474836f25a21660282ce0fd/raw/e06a
670afcb2b861ed2ac4a1ef752d062ef6b46
b/Gilroy.css">
<style>
@media screen and (max-width:
600px){ .navbar {
height: 40px;
font-size: 1.2rem;
position: sticky !important;
}
.navbar__container {
display: flex;
justify-content: space-between;
height: 100px;
z-index: 1;
width: 100%;
max-width: 1300px;
margin: 0 auto;
padding: 0 ;
}
.nbclogo img{
width: 47px;
height: 53px;
top: -8px !important;
left: 10px !important;
}
#navbar__logo {
font-size: 20px;
left: 65px !important;
height: 20px;
}
.navbar__menu.active {
```

```

        font-size: 1rem;
    }
    #mobile-menu{
        top: 0px;
    }
    body {
        background-image: url(bg1.jpg);
        background-position: center;
        background-size: cover;
        background-repeat: no-repeat;
        background-attachment: fixed;
    }

```

</style>

</head>

<body>

<!-- Navigation Bar Section -->

<div class="full-page">

<nav class="navbar">

<div class="navbar\_container">

<div class="nbclogo">



</div>

<a href="#home" id="navbar\_logo" style="position:absolute; left:100px; top:10px">NBC2 iPromote</a>

<div class="navbar\_toggle" id="mobile-menu">

<span class="bar"></span>

<span class="bar"></span>

<span class="bar"></span>

</div>

<ul class="navbar\_menu">

<li class="navbar\_item">

<a href="index.php" class="navbar\_links" id="home-page">Home</a>

</li>

<li class="navbar\_item">

<a href="about.php" class="navbar\_links" id="about-page">About</a>

</li>

<li class="navbar\_item">

<a href="howto.php" class="navbar\_links" id="howto-page">Guide</a>

</li>

<li class="navbar\_item">

<a href="register.php" class="navbar\_links" id="register-page">Register</a>

</li>

<li class="navbar\_btn">

<a href="login.php' for='show'" class="button" id="login-page">Login</a>

</li>

</ul>

</nav>

<div class="home-container">

<div class="header-container">

<div class="header-left">

<h1 class="welcome-heading">Welcome to NBC2 iPromote</h1>

<hr>

<h3 class="welcome-subheading">NBC Portal for Technological University of the Philippines-Manila College of Engineering <br> Faculty</h3>

</div>

</div>

<div class="header-container">

<div class="container-login">

<div class="text">Admin Login</div>

<hr>

<?php

if (isset(\$\_GET["error"])) {

if (\$\_GET["error"] == "emptyinput") {

echo "<p align='center'><font color=#6e1919>Fill in all fields!</font></p>";

} else if (\$\_GET["error"] == "wrongemailorpassword") {

echo "<p align='center'><font color=#6e1919>Wrong Username and/or Password!</font></p>";

}

}

?>

<form method="POST" action="Includes/adminlogin.inc.php">

<div class="data">

<label>Username</label>

<input type="text" name="username" required>

</div>

<div class="data">

<label>Password</label>

<input type="password" name="adminPassword" required>

</div>

<div class="btn">

<div class="inner"></div>

<button id='login-fbutton' type="submit" name="submit">Login</button>

</div>

</form>

</div>

</div>

</div>

<script src="app.js"></script>

</body>

</html>

**adminprofile.php**

<?php

session\_start();

\$name = \$\_SESSION['username'];

\$userdepartment = \$\_SESSION['department'];

\$status1 = "PENDING (DNWC)";

\$status2 = "PENDING (NNF)";

if (isset(\$\_SESSION['username'])) {

include\_once 'server.php';

if(\$\_SESSION['username'] == '4sight') {

\$sql21 = "SELECT COUNT(\*) FROM userarchive WHERE (pdf\_status=\$status1' OR pdf\_status=\$status2')";

\$result21=mysqli\_query(\$conn,\$sql21);

\$rowCount=mysqli\_fetch\_row(\$result21)[0];

} else {

\$sql21 = "SELECT COUNT(\*) FROM userarchive WHERE department='\$userdepartment' AND (pdf\_status=\$status1' OR pdf\_status=\$status2')";

\$result21=mysqli\_query(\$conn,\$sql21);

\$rowCount=mysqli\_fetch\_row(\$result21)[0];

}

}

\$sql = "SELECT \* FROM adminlogin WHERE username=?";

\$stmt = mysqli\_stmt\_init(\$conn);

if (!mysqli\_stmt\_prepare(\$stmt, \$sql)) {

header("location: adminprofilesetting.php?error=stmtfailed");

exit();

} else {

mysqli\_stmt\_bind\_param(\$stmt, "s", \$name);

mysqli\_stmt\_execute(\$stmt);

\$sqlImg = "SELECT \* FROM adminprofileimg WHERE username=?";

\$stmt = mysqli\_stmt\_init(\$conn);

if (!mysqli\_stmt\_prepare(\$stmt, \$sqlImg)) {

header("location: adminprofilesetting.php?error=stmtfailed"); exit();

} else {

mysqli\_stmt\_bind\_param(\$stmt, "s", \$name);

mysqli\_stmt\_execute(\$stmt);

\$resultImg = mysqli\_stmt\_get\_result(\$stmt);

\$resultFetch = mysqli\_fetch\_assoc(\$resultImg);

if (\$resultFetch['status'] == 0){

\$defaultImg = "profileimage/profile".\$name.".jpg?".mt\_rand();

\$\_SESSION['profileImg'] = \$defaultImg;

} else {

\$defaultImg = "profileimage/defaultimage.jpg";

\$\_SESSION['profileImg'] = \$defaultImg;

}}

} else {

```

        header("location:
index.php?error=notloggedin");
exit();
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible"
content="IE=edge">
    <meta name="viewport"
content="width=device-width, initial-
scale=1.0">
    <title>NBC2 iPromote</title>
    <link rel="icon" type="image/png"
href="favicon.png">
    <link rel="stylesheet"
href="https://pro.fontawesome.com/relea-
ses/v5.10.0/css/all.css"
integrity="sha384-
AYmEC3Yw5cVb3ZcuHtOA93w35dYT
svhLPVnYs9eStHfGJvOvKxVfELGroG
kvsg+p" crossorigin="anonymous"/>
    <link rel="stylesheet" href="style.css">
    <link rel="stylesheet"
href="scroll.css">
    <script
src="https://ajax.googleapis.com/ajax/lib-
s/jquery/2.1.1/jquery.min.js"></script>
    <link rel="stylesheet"
href="https://cdn.rawgit.com/mfd/09b70e
b47474836f25a21660282ce0fd/raw/e06a
670afc2b861ed2ac4a1ef752d062ef6b46
b/Gilroy.css">
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
KyZXEAg3QhqLMpG8r+8hfAXLRk2vv
oC2f3B09zVXn8CA5QIVfZOJ3BCsw2P
0p/W" crossorigin="anonymous">
    <style>
.link-item span:hover {
    background-color: #f0e6da
!important;
    color: #6d1919 !important;
}
</style>
<style>
/*ADJUSTMENTS IN THE
NAVBAR*/
    @media screen and (max-width:
600px){
        .navbar {
            height: 40px;
            font-size: 1.2rem;
            position: sticky !important;
        }
        .navbar__container {
            display: flex;
            justify-content: space-between;
            height: 100px;
            z-index: 1;
            width: 100%;
            max-width: 1300px;
            margin: 0 auto;
            padding: 0 ;
        }
    }

```

```

        .nbclogo img{
            width: 47px;
            height: 53px;
            top: -8px !important;
            left: 10px !important;
        }
        #navbar__logo {
            font-size: 20px;
            left: 65px !important;
            height: 20px;
        }
        .navbar__menu.active {
            font-size: 1rem;
        }
        #mobile-menu{
            top: 0px;
        }
        body {
            background-image:
url(bg1.jpg);
            background-position: center;
            background-size: cover;
            background-repeat: no-repeat;
            background-attachment: fixed;
        }
        /* ADJUSTMENTS FOR
CONTAINER 1 TO DISAPPEAR */
        @media screen and (max-width:
600px){
            body{
                background-image: none;
            }
            #container1 {
                display: none;
            }
            #container2Inside i{
                font-size: 80px;
            }
            #container2InsideHeading{
                width: 73%;
                height: 100%;
                justify-content: center;
                font-size: 12px;
            }
            .h2,h2{
                font-size: 25px;
            }
        }
        /* NEW - NAVBAR MENU */
        .navbar__links {
            text-align: center;
            padding: 0.5rem;
            width: 100%;
            display: table;
        }
        .linkk-item{
            display: none;
        }
        .linkk-item{
            padding: 5px 20px;
        }
        .navbar__item {
            height: 53px;
        }
        @media screen and (max-width:
600px){
            .linkk-item{
                display: unset !important;
            }
        }
        /* ADJUSTMENTS PER PAGE */
        @media screen and (max-width:
600px){
            #import-header h1{
                font-size:30px;
            }
            #navbar__logo{
                top: 10px !important;
            }
            #notification{
                margin-top: -34px !important;
            }
        }
    
```

```

</style>
</head>
<body onload="initClock()">
    <!-- Navigation Bar Section --&gt;
    &lt;div class="full-page"&gt;
        &lt;nav class="navbar"&gt;
            &lt;div class="navbar__container"&gt;
                &lt;div class="nbclogo"&gt;
                    &lt;img src="nbclogo.png"
height=60px width=60px
style="position:absolute; left: 30px; top:
1px;"&gt;
                &lt;/div&gt;
                &lt;a href="#" id="navbar_logo"
style="position:absolute; left:100px;
top:5px"&gt;NBC2 iPromote&lt;/a&gt;
                &lt;div class="navbar__toggle"
id="mobile-menu"&gt;
                    &lt;span class="bar"&gt;&lt;/span&gt;
                    &lt;span class="bar"&gt;&lt;/span&gt;
                    &lt;span class="bar"&gt;&lt;/span&gt;
                &lt;/div&gt;
                &lt;ul class="navbar__menu"&gt;
                    &lt;li class="navbar__item"&gt;
                        &lt;a href="adminprofilesetting.php"
class="navbar__links" id="admin-
page"&gt;&lt;img src="&lt;?php echo
$defaultImg; ?&gt;" class="profile-img"
style="width: 40px; height: 40px; border-
radius: 50%;"&gt;&lt;span style="margin-right:
15px"&gt;Profile&lt;/span&gt;
                    &lt;/a&gt;
                    &lt;li class="navbar__item"&gt;
                        &lt;a href="adminhelp.php"
class="navbar__links" id="admin-page"
style="padding: 11px
!important;"&gt;FAQs&lt;/a&gt;
                    &lt;/li&gt;
                    &lt;li class="linkk-item" &gt;
                        &lt;a href="adminprofile.php"
class="navbar__links" id="adminprofile"
&gt;Home&lt;/a&gt;
                    &lt;/li&gt;
                    &lt;li class="linkk-item" &gt;
                        &lt;a href="Training.php"
class="navbar__links" id="TrainingView"
&gt;Training View&lt;/a&gt;
                    &lt;/li&gt;
                    &lt;li class="linkk-item" &gt;
                        &lt;a href="Users.php"
class="navbar__links" id="UsersView"
&gt;Users View&lt;/a&gt;
                    &lt;/li&gt;
                </pre>

```

```

<li class="linkk-item">
    <a href="pendingfiles.php" class="navbar__links" id="UsersView">Pending Files</a>
        <span id="notification" style="float: right; background-color:#f0e6da; border-radius: 5px; color:#6d1919 ; padding: 5px 10px 8px 10px; font-size: 12px; margin-top: 0px;"><?php echo $rowCount; ?></span>
    </li>
    <li class="linkk-item">
        <a href="validation.php" class="navbar__links" id="UsersView">Validation</a>
    </li>
    <li class="linkk-item">
        <a href="Includes/logout-admin.inc.php" class="navbar__links" id="logoutBtn">Logout</a>
    </li>
    <?php
    if ($_SESSION['username'] == '4sight'){
        echo
        '<li class="navbar__item">
            <a href="adminpanel.php" class="navbar__links" id="profile-page">Admin Panel</a>
        </li>';
    }
    ?>
    </ul>
    </div>
    </nav>
    <div id="containerProfile">
        <div id="container1">
            <div id="containerLogo">
                <img alt="" width="150px" style="padding: 20px 0">
            </div>
            <ul class="links">
                <li class="link-item" style="background-color: #6d1919">
                    <a href="adminprofile.php" id="adminprofile" style="color:#f0e6da">Home</a>
                </li>
                <li class="link-item">
                    <a href="Training.php" id="TrainingView">Training View</a>
                </li>
                <li class="link-item">
                    <a href="Users.php" id="UsersView">Users View</a>
                </li>
                <li class="link-item">
                    <a href="pendingfiles.php" id="UsersView">Pending Files</a>
                    <span id="notification" style="float: right; background-color:#6d1919; border-radius: 5px; color:#f0e6da; padding: 5px 10px 8px 10px; font-size: 12px; margin-top: 0px;"><?php echo $rowCount; ?></span>
                </li>
            </ul>
        </div>
    </div>

```

```

Number.prototype.pad = function(digits){
    for(var n = this.toString();
        n.length < digits; n = "0" + n);
    return n;
}
var months = ["January", "February", "March", "April", "May", "June", "July", "Augest", "September", "October", "November", "December"];
var week = ["Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"];
var ids = ["dayname", "month", "daynum", "year", "hour", "minutes", "seconds", "period"];
var values = [week[dbname], months[mo], dnum.pad(2), yr, hou.pad(2), min.pad(2), sec.pad(2), pe];
for(var i = 0; i < ids.length; i++)
document.getElementById(ids[i]).firstChld.nodeValue = values[i];
}

function initClock(){
    updateClock();
window.setInterval("updateClock()", 1);
}
</script>
<script src="app.js"></script>
<script>
    $("#notification").filter(function(){
        return $(this).text().trim() === "0";
    }).hide();
</script>
</body>
</html>

```

## adminprofilesetting.php

```

<?php
session_start();
$name = $_SESSION["username"];
$userdepartment =
$_SESSION["department"];
$status1 = "PENDING (DNWC)";
$status2 = "PENDING (NNF)";

if (isset($_SESSION['username'])) {
    include_once 'server.php';
    if($_SESSION['username'] == '4sight'){
        $sql21 = "SELECT COUNT(*)
FROM userarchive WHERE
(pdf_status='$status1' OR
pdf_status='$status2')";

$result21=mysqli_query($conn,$sql21);
$rowCount=
mysqli_fetch_row($result21)[0];
} else{
        $sql21 = "SELECT COUNT(*)
FROM userarchive WHERE
department='$userdepartment' AND
(pdf_status='$status1' OR
pdf_status='$status2')";

$result21=mysqli_query($conn,$sql21);
$rowCount=
mysqli_fetch_row($result21)[0];
}
}

```

```

        $sql = "SELECT * FROM
adminlogin WHERE username=?";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt,
$sql)) {
    header("location:
adminprofilesetting.php?error=stmtfailed
"); exit();
} else {
    mysqli_stmt_bind_param($stmt,
"s", $name);
    mysqli_stmt_execute($stmt);

    $sqlImg = "SELECT * FROM
adminprofileimg WHERE username=?";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt,
$sqlImg)) {
    header("location:
adminprofilesetting.php?error=stmtfailed
"); exit();
} else {
    mysqli_stmt_bind_param($stmt, "s",
$name);
    mysqli_stmt_execute($stmt);
    $resultImg =
mysqli_stmt_get_result($stmt);
    $resultFetch =
mysqli_fetch_assoc($resultImg);
    if ($resultFetch['status'] ==
0) {
        $defaultImg =
"profileimage/profile_".$name.
".jpg?".mt_rand();
        $_SESSION['profileImg'] =
$defaultImg;
    } else {
        $defaultImg =
"profileimage/defaultimage.jpg";
        $_SESSION['profileImg'] =
$defaultImg;
    }
} else {
    header("location:
index.php?error=notloggedin");
    exit();
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible"
content="IE=edge">
    <meta name="viewport"
content="width=device-width, initial-
scale=1.0">
        <title>NBC2 iPromote</title>
        <link rel="icon" type="image/png"
href="favicon.png">
        <link rel="stylesheet"
href="https://pro.fontawesome.com/relea
ses/v5.10.0/css/all.css"
integrity="sha384-
AYmEC3Yw5cVb3ZcuHtOA93w35dYT
svhLPVnYs9eStHFGJvOvKxVfELGroG
kvsg+p" crossorigin="anonymous"/>
        <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-KyZXEAg3QhqlMPG8r+8fhAXLRk2vv
oC2f3B09zVXn8CA5QIVfZOJ3BCsw2P
0p>We" crossorigin="anonymous">
        <link rel="stylesheet" href="style.css">
        <link rel="stylesheet"
href="scroll.css">
        <script
src="https://ajax.googleapis.com/ajax/lib
s/jquery/2.1.1/jquery.min.js"></script>
        <link rel="stylesheet"
href="https://cdn.rawgit.com/mfd/09b70e
b47474836f25a21660282ce0fd/raw/e06a
670afcb2b861ed2ac4a1ef752d062ef6b46
b/Gilroy.css">
        <style>
.link-item{
    padding: 5px 20px;
}
.link-item a {
    color: #6e1919;
    text-decoration-line: none;
    font-weight: bold;
    font-size: 20px;
}
.link-item a:hover {
    color: #f0e6da !important;
    cursor: pointer;
}
.link-item span:hover {
    background-color: #f0e6da
!important;
    color: #6e1919 !important;
}
.link-item:hover {
    background-color: #6e1919;
    color: #f0e6da !important;
    transition: all 0.3s ease;
}
#profile:hover, #importPdf:hover,
#employeeCreditView:hover,
#logoutBtn:hover{
    color: #f0e6da !important;
    transition: all 0.3s ease;
}
#profile.active, #importPdf.active,
#employeeCreditView.active,
#logoutBtn.active{
    color: #f0e6da;
    transition: all 0.3s ease;
}
.modal {
    position: fixed;
    top:30%;
    left: 0;
    z-index: 1055;
    display: none;
    width: 100%;
    height: 100%;
    overflow-x: hidden;
    overflow-y: auto;
    outline: 0;
}
.modal-header {
    padding: 2px 16px;
    background-color: #6d1919;
}
.close{
    color: white !important;
    font-size: 1.5rem !important;
    float: right !important;
}
.close:hover,
.close:focus {
    color: #000 !important;
    text-decoration: none;
    cursor: pointer;
}
/* Modal Body */
.modal-body {
    padding: 16px 16px;
    text-align: center;
}
/* Modal Content */
.modal-content {
    position: relative;
    background-color: #fefefe;
    margin: auto;
    padding: 0;
    width: 30%;
    box-shadow: 0 4px 8px 0
    rgba(0,0,0,0.2), 0 6px 20px 0
    rgba(0,0,0,0.19);
    animation-name: animatetop;
    animation-duration: 0.4s
}
/* Add Animation */
@keyframes animatetop {
    from {top: -300px; opacity: 0}
    to {top: 0; opacity: 1}
}
#uploading {
    margin: 15px 0 !important;
}
#account-header h3{
    font-weight: bold;
    color:#6e1919;
}
.data1 {
    margin-bottom: 5px;
}
.data1 label{
    font-size: 15px;
    color:#6e1919;
}
.data1 input{
    height: 35px;
    width: 350px;
    padding-left: 10px;
    font-size: 15px;
    border: 1px solid #6e1919;
    color: #976c62;
}
.final-container {
    width: 100%;
    padding: 40px;
    background-color: white;
    border-color: #6d1919;
}
.container2i {
    width: 100%;
    padding: 20px 0px;
    background-color: white;
    border-color: #6d1919;
    display: flex;
    flex-direction:row;
    flex-wrap:wrap;
    justify-content: flex-start;
    align-items: flex-start;
}

```

```

.profile-container {
  display: flex;
  justify-content: center;
  align-items: center;
  align-content: flex-start;
  margin: 0px 80px;
}
.profile-settings{
  max-width: 350px;
}

.btn2 {
  margin-top: 10px;
  float: right;
}

@media screen and (max-width: 700px){
  .profile-container{
    margin: 8% auto;
  }

  .container2i {
    flex-direction:column;
    justify-content: space-around;
    align-items: center;
  }
}

</style>
<style>
  /*ADJUSTMENTS IN THE NAVBAR*/
  @media screen and (max-width: 600px){
    .navbar {
      height: 40px;
      font-size: 1.2rem;
      position: sticky !important;
    }
    .navbar__container {
      display: flex;
      justify-content: space-between;
      height:100px;
      z-index: 1;
      width: 100%;
      max-width: 1300px;
      margin: 0 auto;
      padding: 0 ;
    }
    .nbclogo img{
      width: 47px;
      height: 53px;
      top: -8px !important;
      left: 10px !important;
    }
    #navbar__logo {
      font-size: 20px;
      left: 65px !important;
      height: 20px;
    }
    .navbar__menu.active {
      font-size: 1rem;
    }
    #mobile-menu{
      top: 0px;
    }
    body {
      background-image: url(bg1.jpg);
      background-position: center;
      background-size: cover;
      background-repeat: no-repeat;
    }
  }
}

  background-attachment: fixed;
}

/* ADJUSTMENTS FOR CONTAINER 1 TO DISAPPEAR */
@media screen and (max-width: 600px){
  body{
    background-image: none;
  }
  #container1 {
    display: none;
  }
  #container2Inside i{
    font-size: 80px;
  }
  #container2InsideHeading{
    width: 73%;
    height: 100%;
    justify-content: center;
    font-size: 12px;
  }
  .h2,h2{
    font-size: 25px;
  }
  .modal-content {
    position: relative;
    background-color: #fefefef;
    margin: auto;
    padding: 0;
    width: 70%;
    box-shadow: 0 4px 8px 0
    rgba(0,0,0,0.2), 0 6px 20px 0
    rgba(0,0,0,0.19);
    animation-name: animatetop;
    animation-duration: 0.4s
  }
  .profile-container1 img{
    height: 100px;
    width: 100px;
    border-radius: 50%;
  }
  .data1 input{
    height: 35px;
    width: 250px;
    padding-left: 10px;
    font-size: 15px;
    border: 1px solid #6e1919;
    color: #976c62;
  }
}

/* NEW - NAVBAR MENU */
.navbar__links {
  text-align: center;
  padding: 0.5rem;
  width: 100%;
  display: table;
}
.linkk-item{
  display: none;
}
.linkk-item{
  padding: 5px 20px;
}
.navbar__item {
  height: 53px;
}
@media screen and (max-width: 600px){
  .linkk-item{
    display: unset !important;
  }
  /*ADJUSTMENTS PER PAGE */
  @media screen and (max-width: 600px){
    #import-header h1{
      font-size:30px;
    }
    #navbar__logo{
      top: 10px !important;
    }
    #notification{
      margin-top: -34px !important;
    }
  }
}

</style>
</head>
<body>
  <!-- Navigation Bar Section -->
  <div class="full-page">
    <nav class="navbar">
      <div class="navbar__container">
        <div class="nbclogo">
          
        </div>
        <a href="#home" id="navbar__logo"
          style="position:absolute; left:100px; top:5px">NBC2 iPromote</a>
        <div class="navbar__toggle" id="mobile-menu">
          <span class="bar"></span>
          <span class="bar"></span>
          <span class="bar"></span>
        </div>
        <ul class="navbar__menu">
          <li class="navbar__item">
            <a href="adminprofilesetting.php"
              class="navbar__links" id="profile-page"><span style="margin-right: 15px;">Profile</span></a>
            </li>
            <li class="navbar__item">
              <a href="adminhelp.php" class="navbar__links" id="admin-page"
                style="padding: 11px !important;">FAQs</a>
            </li>
            <li class="linkk-item" >
              <a href="adminprofile.php" class="navbar__links" id="adminprofile" >Home</a>
            </li>
            <li class="linkk-item" >
              <a href="Training.php" class="navbar__links" id="TrainingView" >Training View</a>
            </li>
            <li class="linkk-item" >
          

```

```

        <a href="Users.php"
class="navbar__links"
id="UsersView">Users View</a>
        </li>
        <li class="linkk-item">
            <a href="pendingfiles.php"
class="navbar__links"
id="UsersView">Pending Files</a>
                <span id="notification"
style="float: right; background-color:#f0e6da; border-radius: 5px; color:#6d1919 ; padding: 5px 10px 8px 10px; font-size: 12px; margin-top: 0px;"><?php echo $rowCount; ?></span>
            </li>
            <li class="linkk-item">
                <a href="validation.php"
class="navbar__links"
id="UsersView">Validation</a>
            </li>
            <li class="linkk-item">
                <a href="Includes/logout-admin.inc.php"
class="navbar__links"
id="logoutBtn">Logout</a>
            </li>
        <?php
if ($_SESSION['username'] == '4sight'){
    echo '<li
class="navbar__item">
    <a href="adminpanel.php"
class="navbar__links" id="profile-page">Admin Panel</a>
        <li>';
}
?>
</ul>
</div>
</nav>
<div id="containerProfile">
    <div id="container1">
        <div id="containerLogo">
            <img alt="" width="150px" style="padding: 20px 0">
        </div>
        <ul class="links">
            <li class="link-item">
                <a href="adminprofile.php"
id="adminprofile">Home</a>
            </li>
            <li class="link-item">
                <a href="Training.php"
id="TrainingView">Training View</a>
            </li>
            <li class="link-item">
                <a href="Users.php"
id="UsersView">Users View</a>
            </li>
            <li class="link-item">
                <a href="pendingfiles.php"
id="UsersView">Pending Files</a>
                    <span id="notification"
style="float: right; background-color:#6d1919; border-radius: 5px; color:#f0e6da; padding: 5px 10px 8px
10px; font-size: 12px; margin-top: 0px;"><?php echo $rowCount; ?></span>
                </li>
                <li class="link-item">
                    <a href="validation.php"
class="navbar__links"
id="UsersView">Validation</a>
                </li>
                <li class="link-item">
                    <a href="Includes/logout-admin.inc.php"
class="navbar__links"
id="logoutBtn">Logout</a>
                </li>
            <?php
if ($_SESSION['username'] == '4sight'){
    echo '<li
class="navbar__item">
    <a href="adminpanel.php"
class="navbar__links" id="profile-page">Admin Panel</a>
        <li>';
}
?>
</ul>
</div>
</div>
<div id="final-container">
    <div id="import-header" >
        <h1>My Profile</h1>
    </div>
    <div class="container2i">
        <div class="profile-container">
            <div class="full-container" style="text-align:center">
                <div class="profile-container1">
                    
                </div>
                <div class="profile-photo">
                    <button type="button" class="btn1" name="uploadImg" id="uploadImg" value="Change Profile Photo">Upload Photo</button>
                </div>
                <?php
if (isset($_GET["error"])){
    if ($_GET["error"] == "uploadsucces") {
        echo '<p align="center"><font color="#6e1919">Upload Successful!</font></p>';
    } else if ($_GET["error"] == "largefilesize") {
        echo '<p align="center"><font color="#6e1919">File size is too big!</font></p>';
    } else if ($_GET["error"] == "failedupload") {
        echo '<p align="center"><font color="#6e1919">An error occurred!</font></p>';
    } else if ($_GET["error"] == "filenotallowed") {
        echo '<p align="center"><font color="#6e1919">File of this type is not allowed!</font></p>';
    } else if ($_GET["error"] == "stmtfailed") {
        echo '<p align="center"><font color="#6e1919">Something went wrong, try again!</font></p>';
    }
}
?>
                <div class="profile-settings" style="text-align: center">
                    <div id="account-header" >
                        <h3>Account Settings</h3>
                    </div>
                    <form method="POST" action="Includes/adminprofilesetting.inc.php">
                        <hr>
                        <div class="data1">
                            <label>Username</label><br>
                            <input type="text" name="firstname" value="<?php echo $name; ?>" readonly>
                        </div>
                        <div class="data1">
                            <label>Current Password</label><br>
                            <input type="password" name="curr-pass" required>
                        </div>
                        <div class="data1">
                            <label>Change Password</label><br>
                            <input type="password" name="password" required>
                        </div>
                        <div class="data1">
                            <label>Confirm Password</label><br>
                            <input type="password" name="conf-pass" required>
                        </div>
                    <div class="inner"></div>
                </div>
            </div>
        </div>
    </div>
</div>

```

```

        <button id='register-fbutton' type="submit" name="update" class="btn1">Update</button>
        </div>
        </form>
        </div>
        </div>
        </div>
        </div>
        </div>
        </div>
        </div>
        <div id="myModal" class="modal">
            <div class="modal-content">
                <div class="modal-header">
                    <span class="close">&times;</span>
                </div>
                <div class="modal-body">
                    <form method="POST" action="Includes/adminprofile.inc.php" enctype="multipart/form-data">
                        <input type="file" name="file" class="btn1" accept="image/jpg" hidden="hidden" id="image-file">
                        <button type="button" class="btn1" name="choosefile" id="choosefile"><i class="fa fa-upload" aria-hidden="true"></i> Choose Image</button>
                        <button type="submit" class="btn1" name="submit" id="save">Save</button>
                        <div id="custom-text">No file chosen, yet.</div>
                    </form>
                </div>
            </div>
        </div>
        <script src="app.js"></script>
        <script>
            var modal = document.getElementById("myModal");
            var btn = document.getElementById("uploading");
            var span = document.getElementsByClassName("close")[0];
            span.onclick = function() {
                modal.style.display = "block";
            }
            span.onclick = function() {
                modal.style.display = "none";
            }
            window.onclick = function(event) {
                if (event.target == modal) {
                    modal.style.display = "none";
                }
            }
            const realFileBtn = document.getElementById("image-file");
            const customBtn = document.getElementById("choosefile");
            const customTxt = document.getElementById("custom-text");
            customBtn.addEventListener("click", function() {
                realFileBtn.click();
            });
            realFileBtn.addEventListener("change", function() {
                if (realFileBtn.value) {
                    customTxt.innerHTML =
                        realFileBtn.value.match(
                            /\[\|\|([l\w\d\$].-\(\))]+$/)[1];
                } else {
                    customTxt.innerHTML = "No file chosen, yet.";
                }
            });
        </script>
        <script>
            $("#notification").filter(function(){
                return $(this).text().trim() === "0";
            }).hide();
        </script>
    </body>
</html>

```

**audit.php**

```

<?php
session_start();
$defaultImg = $_SESSION['profileImg'];
if (isset($_SESSION['useremail'])){

?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>NBC2 iPromote</title>
    <link rel="icon" type="image/png" href="favicon.png">
    <link rel="stylesheet" href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css"
integrity="sha384-AYmEC3Yw5cVb3ZeuHtOA93w35dYTsvhLPVnYs9eStHfGJvOvKxVfELGroGkvsg+p" crossorigin="anonymous"/>
    <link rel="stylesheet" href="style.css">
    <link rel="stylesheet" href="scroll.css">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KyZXEAg3QhqlLMpG8r+8fhAXLRk2vv0C2f3B09zVXn8CA5QIVfZOJ3BCsw2P0p>We" crossorigin="anonymous">
    <link rel="stylesheet" href="https://cdn.rawgit.com/mfd/09b70eb47474836f25aa1660282ce0fd/raw/e06a670afcb2b861ed2ac4a1ef752d062ef6b46b/Gilroy.css">
    <style>
        /* Modal Header */
        .link-item{
            padding: 5px 20px;
        }
        .link-item a {
            color: #6e1919;
            text-decoration-line: none;
            font-weight: bold;
            font-size: 20px;
        }
        .link-item a:hover {
            color: #f0e6da !important;
            cursor: pointer;
        }
        .link-item:hover {
            background-color: #6e1919;
            color: #f0e6da !important;
            transition: all 0.3s ease;
        }
        #profile:hover, #importPdf:hover, #employeeCreditView:hover, #logoutBtn:hover {
            color: #f0e6da !important;
            transition: all 0.3s ease;
        }
        #profile.active, #importPdf.active, #employeeCreditView.active, #logoutBtn.active {
            color: #f0e6da;
            transition: all 0.3s ease;
        }
.modal {
    position: fixed;
    top:30%;
    left: 0;
    z-index: 1055;
    display: none;
    width: 100%;
    height: 100%;
    overflow-x: hidden;
    overflow-y: auto;
    outline: 0;
}
.modal-header {
    padding: 2px 16px;
    background-color: #6d1919;
}
.close{
    color: white !important;
    font-size: 1.5rem !important;
    float: right !important;
}
.close:hover,
.close:focus {
    color: #000 !important;
    text-decoration: none;
    cursor: pointer;
}
/* Modal Body */
.modal-body {padding: 2px 16px;}
/* Modal Content */
.modal-content {
    position: relative;
    background-color: #fefefe;
    margin: auto;
    padding: 0;
    width: 30%;
    box-shadow: 0 4px 8px 0 rgba(0,0,0,0.2), 6px 20px 0 rgba(0,0,0,0.19);
    animation-name: animatetop;
    animation-duration: 0.4s
}
.modal1 {
    position: fixed;
    top:30%;
}

```

```

left: 0;
z-index: 1055;
display: none;
width: 100%;
height: 100%;
overflow-x: hidden;
overflow-y: auto;
outline: 0;
}
.modal-header1 {
padding: 2px 16px;
background-color: #6d1919;
}
.close1{
color: white !important;
font-size: 1.5rem !important;
float: right !important;
}
.close1:hover,
.close1:focus {
color: #000 !important;
text-decoration: none;
cursor: pointer;
}
/* Modal Body */
.modal-body1 {padding: 2px 16px;}
/* Modal Content */
.modal-content1 {
position: relative;
background-color: #fefefe;
margin: auto;
padding: 0;
width: 30%;
box-shadow: 0 4px 8px 0
rgba(0,0,0,0.2),0 6px 20px 0
rgba(0,0,0,0.19);
animation-name: animatetop;
animation-duration: 0.4s
}
.file-logo {
color:#6e1919;
}
.data1 {
margin-bottom: 5px;
}
.data1 label{
font-size: 18px;
color:#6e1919;
}
.data1 input{
height: 30px;
width: 350px;
padding-left: 10px;
font-size: 15px;
border: 1px solid #6e1919;
color: #976c62;
margin-bottom: 10px;
}
.container2i {
width: 100%;
padding: 20px 0px;
background-color: white;
border-color: #6d1919;
display: flex;
flex-direction:row;
flex-wrap:wrap;
justify-content: flex-start;
align-items: flex-start;
}
.profile-container {
display: flex;
justify-content: center;
align-items: center;
align-content: flex-start;
margin: 0px 0px;
}
.btn2 {
background-color: transparent;
color: #976c62;
border: none;
font-size: 100px;
margin: 0px 0px;
text-align: center;
margin: auto;
width: 350px;
padding-top: 50px;
padding-bottom: 30px;
}
.file-upload {
border: 2px solid #6e1919;
border-radius: 10px;
margin-bottom: 10px;
}
.file-upload p{
color: #976c62;
text-align: center;
font-size: 10px;
}
/* Add Animation */
@keyframes animatetop {
from {top: -300px; opacity: 0}
to {top: 0; opacity: 1}
}
/* NEW - NAVBAR MENU */
.navbar__links {
text-align: center;
padding: 0.5rem;
width: 100%;
display: table;
}
.linkk-item{
display: none;
}
.linkk-item{
padding: 5px 20px;
}
.navbar__item {
height: 53px;
}
/* ADJUSTMENTS FOR CONTAINER 1 TO DISAPPEAR */
@media screen and (max-width: 600px){
body{
background-image: none;
}
#container1{
display: none;
}
#container2Inside i{
font-size: 80px;
}
#container2InsideHeading{
width: 73%;
height: 100%;
justify-content: center;
font-size: 12px;
}
.h2,h2{
font-size: 25px;
}
}
/* ADJUSTMENTS IN THE NAVBAR */
@media screen and (max-width: 600px){
.navbar {
height: 40px;
font-size: 1.2rem;
position: sticky !important;
}
.navbar__container {
display: flex;
justify-content: space-between;
height:100px;
z-index: 1;
width: 100%;
max-width: 1300px;
margin: 0 auto;
padding: 0 ;
}
.nbclogo img{
width: 47px;
height: 53px;
top: -8px !important;
left: 10px !important;
}
.navbar__logo {
font-size: 20px;
left: 65px !important;
height: 20px;
}
.navbar__menu.active {
font-size: 1rem;
}
#mobile-menu{
top: 0px;
}
body {
background-image:
url(bg1.jpg);
background-position: center;
background-size: cover;
background-repeat: no-repeat;
background-attachment: fixed;
}
}
/* ADJUSTMENTS PER PAGE */
#help-page{
padding: 0.75rem;
}

```

```

        @media screen and (max-width: 600px){
            #import-header h1{
                font-size:30px;
            }
            #navbar_logo{
                top: 10px !important;
            }
        }
    </style>
</head>
<body>
    <!-- Navigation Bar Section -->
    <div class="full-page">
        <nav class="navbar">
            <div class="navbar_container">
                <div class="nbclogo">
                    
                </div>
                <a href="#home" id="navbar_logo" style="position: absolute; left:100px; top: 5px;">NBC2 iPromote</a>
                <div class="navbar_toggle" id="mobile-menu">
                    <span class="bar"></span>
                    <span class="bar"></span>
                    <span class="bar"></span>
                </div>
                <ul class="navbar_menu">
                    <li class="navbar_item">
                        <a href="userprofile.php" class="navbar_links" id="profile-page"><img src=<?php echo $defaultImg; ?>" class="profile-img" style="width: 40px; height: 40px; border-radius: 50%;"><span style="margin-right: 15px;></span>Profile</a>
                            </li>
                            <li class="navbar_item">
                                <a href="help.php" class="navbar_links" id="help-page" style="padding: 11px !important;">FAQs</a>
                            </li>
                            <li class="linkk-item">
                                <a href="profile.php" class="navbar_links" id="profile">Home</a>
                            </li>
                            <li class="linkk-item">
                                <a href="Import.php" class="navbar_links" id="importPdft" >Import PDF</a>
                            </li>
                            <li class="linkk-item">
                                <a href="ECV.php" class="navbar_links" id="employeeCreditView">Employee Credit View</a>
                            </li>
                            <li class="linkk-item">
                                <a href="filesarchive.php" class="navbar_links" id="logoutBtn">Files Archive</a>
                            </li>
                            <li class="linkk-item">

```

method="post" enctype="multipart/form-data">

```

                <a href="audit.php" class="navbar_links" id="logoutBtn">Audit</a>
                </li>
                <li class="linkk-item">
                    <a href="Includes/logout.inc.php" class="navbar_links" id="logoutBtn">Logout</a>
                </li>
                </ul>
            </div>
            <div id="containerProfile">
                <div id="container1">
                    <div id="containerLogo">
                        
                    <ul class="links">
                        <li class="link-item">
                            <a href="profile.php" id="profile">Home</a>
                        </li>
                        <li class="link-item">
                            <a href="Import.php" id="importPdf">Import PDF</a>
                        </li>
                        <li class="link-item">
                            <a href="ECV.php" id="employeeCreditView">Employee Credit View</a>
                        </li>
                        <li class="link-item">
                            <a href="filesarchive.php" id="logoutBtn">Files Archive</a>
                        </li>
                        <li class="link-item" style="background-color: #6d1919;">
                            <a href="audit.php" id="logoutBtn" style="color:#f0e6da">Audit</a>
                        </li>
                        <li class="link-item">
                            <a href="Includes/logout.inc.php" id="logoutBtn">Logout</a>
                        </li>
                    </ul>
                </div>
                <div id="container2i">
                    <div id="import-header">
                        <h1>Audit</h1>
                    </div>
                    <div class="profile-container">
                        <div>
                            <div class="file-upload">
                                <button disabled><i class="fas fa-file"></i></button>
                            </div>
                            <p>Upload your Detailed Summary PDF file to verify the Apostille<br>Note: Do not change the filename of your detailed summary PDF file</p>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </div>
    <div id="custom-text">No file chosen, yet.</div>
    </form>
    </div>
    </div>
    </div>
    </div>
    </div>
    </div>
    <div id="myModal" class="modal">
        <div class="modal-content">
            <div class="modal-header">
                <span class="close">&times;</span>
            </div>
            <div class="modal-body">
                <?php
                    if (isset($_GET["error"])){
                        echo '<script>
                            var modal = document.getElementById("myModal");
                            var span = document.getElementsByClassName("close")[0];
                            modal.style.display = "block";
                            span.onclick = function() {
                                modal.style.display = "none";
                            }
                            window.onclick = function(event) {
                                if (event.target == modal) {
                                    modal.style.display = "none";
                                }
                            }
                        </script>';
                        if ($_GET["error"] == "auditvalid") {
                            echo "<p align='center'><font color=#6e1919>Apostille Valid!</font></p>";
                        }
                    }
                </?php>
            </div>
        </div>
    </div>

```

```

        }           else      if
($_GET["error"] == "auditinvalid") {
    echo      "<p"
align='center'><font
color=#6e1919>Apostille is Invalid! File
has been tampered.</font></p>";
}           else      if
($_GET["error"] == "auditerroroccurred")
{
    echo      "<p"
align='center'><font color=#6e1919>An
Error Occurred! Please double-check that
the hashkey you entered is
correct!</font></p>";
}
?>
</div>
</div>
</div>
<script>
    const realFileBtn =
document.getElementById("real-file");
    const customBtn =
document.getElementById("choosefile");
    const customTxt =
document.getElementById("custom-
text");
    customBtn.addEventListener("click",
function() {
    realFileBtn.click();
});
    realFileBtn.addEventListener("change",
function() {
    if (realFileBtn.value) {
        customTxt.innerHTML =
realFileBtn.value.match(
/[\w\W](\w\d{s},\-\(\))/]+$/[1];
    } else {
        customTxt.innerHTML = "Select
File...";
    }
});
</script>
<script src="app.js"></script>

</body>
</html>
<?php
}else{
    header("location:
index.php?error=notloggedin");
    exit();
}
?>

create-new-password.php
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible"
content="IE=edge">
    <meta name="viewport"
content="width=device-width, initial-
scale=1.0">
    <title>NBC2 iPromote</title>
    <link rel="icon" type="image/png"
href="favicon.png">
    <link rel="stylesheet" href="style.css">
        <link rel="stylesheet" href="https://cdn.rawgit.com/mfd/09b70eb4747436f25a21660282ce0fd/raw/e06ab70afcb2b861ed2ac4a1ef752d062ef6b46b/Gilroy.css">
        <style>
            @media screen and (max-width:
600px){
                .navbar {
                    height: 40px;
                    font-size: 1.2rem;
                    position: sticky !important;
                }
                .navbar__container {
                    display: flex;
                    justify-content: space-between;
                    height: 100px;
                    z-index: 1;
                    width: 100%;
                    max-width: 1300px;
                    margin: 0 auto;
                    padding: 0 ;
                }
                .nbclogo img{
                    width: 47px;
                    height: 53px;
                    top: -8px !important;
                    left: 10px !important;
                }
                #navbar__logo {
                    font-size: 20px;
                    left: 65px !important;
                    height: 20px;
                }
                .navbar__menu.active {
                    font-size: 1rem;
                }
                #mobile-menu{
                    top: 0px;
                }
                body {
                    background-image:
url(bg1.jpg);
                    background-position: center;
                    background-size: cover;
                    background-repeat: no-repeat;
                    background-attachment: fixed;
                }
            }
        </style>
</head>
<body>
    <!-- Navigation Bar Section -->
    <div class="full-page">
        <nav class="navbar">
            <div class="navbar__container">
                <div class="nbclogo">
                    
                </div>
                <a href="#" id="home"
id="navbar__logo"
style="position: absolute; left: 100px;
top: 10px">NBC2 iPromote</a>
                <div class="navbar__toggle"
id="mobile-menu">
                    <span class="bar"></span>
                    <span class="bar"></span>
                    <span class="bar"></span>
                </div>
            </div>
        </nav>
        <div class="header-container">
            <div class="header-left">
                <h1 class="welcome-
heading">Welcome to <br> NBC2
iPromote</h1>
                <hr>
                <h3 class="welcome-
subheading">NBC Portal for
Technological University of the <br>
Philippines-Manila College of
Engineering <br> Faculty</h3>
            </div>
            </div>
            <div class="header-container">
                <div class="container-login">
                    <div class="text">Reset
Your Password</div>
                    <hr>
                    <div></div>
                </div>
            </div>
        <?php
            $selector =
$_GET["selector"];
            $validator =
$_GET["validator"];
            if (empty($selector) ||
empty($validator)) {
                echo "Could not validate
your request!";
            } else{
                if
(ctype_xdigit($selector) !== false &&
ctype_xdigit($validator) !== false) {
                    ?>
                    <?php
                    if
(isset($_GET["newpwd"])){

```

```

        if
        ($_GET["newpwd"] == "empty") {
            echo      "<p"
            align='center'><font color=#6e1919>Fill
            in all fields!</font></p>";
        } else if
        ($_GET["newpwd"] == "pwdnotmatch")
        {
            echo      "<p"
            align='center'><font
            color=#6e1919>Passwords
            don't
            match!</font></p>";
        }
    ?>
    <form method="POST"
action='Includes/reset-
password.inc.php'>
    <input type="hidden"
name="selector" value="<?php echo
$selector ?>">
    <input type="hidden"
name="validator" value="<?php echo
$validator ?>">
    <div class="data">
        <label>New
        Password</label>
        <input
        type="password" name="newPassword"
        required>
    </div>
    <div class="data">
        <label>Confirm
        Password</label>
        <input
        type="password"
        name="confirmPassword" required>
    </div>
    <div class="btn">
        <div
        class="inner"></div>
        <button id="login-
fbutton" type="submit" name="reset-
request-submit">Reset
        Password</button>
    </div>
</form>
<?php
}
?
</div>
</div>
<script src="app.js"></script>
</body>
</html>

ECV.php
<?php
session_start();
$defaultImg
$_SESSION['profileImg'];
if (isset($_SESSION['useremail'])) {
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
        <meta http-equiv="X-UA-Compatible"
content="IE=edge">
            <meta
name="viewport"
content="width=device-width, initial-
scale=1.0">
                <title>NBC2 iPromote</title>
                <link rel="icon" type="image/png"
href="favicon.png">
                <link
rel="stylesheet"
href="https://pro.fontawesome.com/relea
ses/v5.10.0/css/all.css"
integrity="sha384-
AYmEC3Yw5cVb3ZcuHtOA93w35dYT
svhLPVnYs9eStHfGJvOvKxVfELGroG
kvsg+p" crossorigin="anonymous"/>
                <link rel="stylesheet" href="style.css">
                <link
rel="stylesheet"
href="scroll.css">
                <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-KyZXEAg3QhqlLMPG8r+8fhAXLRk2vv
oC2f3B09zVXn8CA5QIVfZOJ3BCsw2P
Op/We" crossorigin="anonymous">
                <link
rel="stylesheet"
href="https://cdn.rawgit.com/mfd/09b70e
b47474836f25a21660282ce0fd/raw/e06a
670afcb2b861ed2ac4a1ef752d062ef6b46
b/Gilroy.css">
                <style>
                    .parag{
                        color: #6d1919;
                        background-color: #f0e6da;
                        font-size: 13px;
                        text-align: justify;
                        padding: 5px;
                    }
                    .modal{
                        z-index: 1055;
                        display: none;
                        width: 100%;
                        height: 100%;
                        overflow-x: hidden;
                        overflow-y: auto;
                        outline: 0;
                        background-color: rgb(0,0,0); /* Fallback color */
                        background-color: rgba(0,0,0,0.4); /* Black w/ opacity */
                        -webkit-animation-name: fadeIn; /* Fade in the background */
                        -webkit-animation-duration: 0.4s;
                        animation-name: fadeIn;
                        animation-duration: 0.4s
                    }
                    .modal-header {
                        padding: 2px 16px;
                        background-color: #6d1919;
                    }
                    .close{
                        color: white !important;
                        font-size: 1.5rem !important;
                        float: right !important;
                    }
                    .close:hover,
                    .close:focus {
                        color: #000 !important;
                        text-decoration: none;
                        cursor: pointer;
                    }
                </style>
                <style>
                    /*ADJUSTMENTS IN THE
NAVBAR*/
                    @media screen and (max-width:
600px){
                        .modal-body {
                            padding: 16px 16px;
                        }
                        .modal-content {
                            top: 15%;
                            position: relative;
                            background-color: #fefefe;
                            margin: auto;
                            padding: 0;
                            width: 70%;
                            box-shadow: 0 4px 8px 0
rgba(0,0,0,0.2), 0 6px 20px 0
rgba(0,0,0,0.19);
                            animation-name: animatetop;
                            animation-duration: 0.4s
                        }
                        /* Add Animation */
                        @keyframes animatetop {
                            from {top: -300px; opacity: 0}
                            to {top: 0; opacity: 1}
                        }
                        @-webkit-keyframes fadeIn {
                            from {opacity: 0}
                            to {opacity: 1}
                        }
                        @keyframes fadeIn {
                            from {opacity: 0}
                            to {opacity: 1}
                        }
                    }
                    .users-tab {
                        overflow-y: scroll;
                        height: 300px;
                        border: 2px #6e1919 solid;
                        overflow-x: scroll;
                    }
                    .modal-header {
                        padding: 2px 16px;
                        background-color: #6d1919;
                    }
                    table {
                        border-collapse: collapse;
                        border-spacing: 0;
                        width: 100%;
                    }
                    th {
                        text-align: left;
                        padding: 8px;
                        color: #6e1919;
                        font-weight: bold;
                        font-size: 15px;
                    }
                    td {
                        text-align: left;
                        padding: 8px;
                        color: #6e1919;
                        font-weight: normal;
                        font-size: 15px;
                    }
                    .users-div tr:nth-
child(even){background-color: #f0e6da}
                </style>
                <style>
                    /*ADJUSTMENTS IN THE
NAVBAR*/
                    @media screen and (max-width:
600px){

```

```

.navbar {
    height: 40px;
    font-size: 1.2rem;
    position: sticky !important;
}
.navbar__container {
    display: flex;
    justify-content: space-between;
    height: 100px;
    z-index: 1;
    width: 100%;
    max-width: 1300px;
    margin: 0 auto;
    padding: 0 ;
}
.nbclogo img{
    width: 47px;
    height: 53px;
    top: -8px !important;
    left: 10px !important;
}
#navbar__logo {
    font-size: 20px;
    left: 65px !important;
    height: 20px;
}
.navbar__menu.active {
    font-size: 1rem;
}
#mobile-menu{
    top: 0px;
}
body {
    background-image: url(bg1.jpg);
    background-position: center;
    background-size: cover;
    background-repeat: no-repeat;
    background-attachment: fixed;
}
/* ADJUSTMENTS FOR CONTAINER 1 TO DISAPPEAR */
@media screen and (max-width: 600px){
    body{
        background-image: none;
    }
    #container1{
        display: none;
    }
    #container2Inside i{
        font-size: 80px;
    }
    #container2InsideHeading{
        width: 73%;
        height: 100%;
        justify-content: center;
        font-size: 12px;
    }
    .h2,h2{
        font-size: 25px;
    }
}
/* NEW - NAVBAR MENU */
.navbar__links {
    text-align: center;
    padding: 0.5rem;
    width: 100%;
    display: table;
}

```

```

    }
    .linkk-item{
        display: none;
    }
    .linkk-item{
        padding: 5px 20px;
    }
    .navbar__item {
        height: 53px;
    }
    @media screen and (max-width: 600px){
        .linkk-item{
            display: unset !important;
        }
        /* ADJUSTMENTS PER PAGE */
        #help-page{
            padding: 0.75rem;
        }
        @media screen and (max-width: 600px){
            #import-header h1{
                font-size:30px;
            }
            #navbar__logo{
                top: 10px !important;
            }
        }
        </style>
    </head>
    <body>
        <!-- Navigation Bar Section -->
        <div class="full-page">
            <nav class="navbar">
                <div class="navbar__container">
                    <div class="nbclogo">
                        
                    </div>
                    <a href="#home" id="navbar__logo" style="position: absolute; left:100px; top:5px">NBC2 iPromote</a>
                    <div class="navbar__toggle" id="mobile-menu">
                        <span class="bar"></span>
                        <span class="bar"></span>
                        <span class="bar"></span>
                    </div>
                    <ul class="navbar__menu">
                        <li class="navbar__item">
                            <a href="userprofile.php" class="navbar__links" id="profile-page"><img src=<?php echo $defaultImg; ?>" class="profile-img" style="width: 40px; height: 40px; border-radius: 50%;"><span style="margin-right: 15px">Profile</a>
                        </li>
                        <li class="navbar__item">
                            <a href="help.php" class="navbar__links" id="help-page" style="padding: 11px !important;">FAQs</a>
                        </li>
                        <li class="linkk-item">

```

```

                            <a href="profile.php" class="navbar__links" id="profile">Home</a>
                        </li>
                        <li class="linkk-item">
                            <a href="Import.php" class="navbar__links" id="importPdf">Import PDF</a>
                        </li>
                        <li class="linkk-item">
                            <a href="ECV.php" class="navbar__links" id="employeeCreditView">Employee Credit View</a>
                        </li>
                        <li class="linkk-item">
                            <a href="filesarchive.php" class="navbar__links" id="logoutBtn">Files Archive</a>
                        </li>
                        <li class="linkk-item">
                            <a href="audit.php" class="navbar__links" id="logoutBtn">Audit</a>
                        </li>
                        <li class="linkk-item">
                            <a href="Includes/logout.inc.php" class="navbar__links" id="logoutBtn">Logout</a>
                        </li>
                    </ul>
                </div>
            </div>
            <div id="containerProfile">
                <div id="container1">
                    <div id="containerLogo">
                        
                    </div>
                    <ul class="links">
                        <li class="link-item">
                            <a href="profile.php" id="importPdf">Home</a>
                        </li>
                        <li class="link-item">
                            <a href="Import.php" id="importPdf">Import PDF</a>
                        </li>
                        <li class="link-item" style="background-color: #6d1919">
                            <a href="ECV.php" id="employeeCreditView">Employee Credit View</a>
                        </li>
                        <li class="link-item">
                            <a href="filesarchive.php" id="filesarchive">Files Archive</a>
                        </li>
                        <li class="link-item">
                            <a href="audit.php" id="logoutBtn">Audit</a>
                        </li>
                        <li class="link-item">
                            <a href="Includes/logout.inc.php" id="logoutBtn">Logout</a>
                        </li>
                    </ul>
                </div>
            </div>
        </div>
    
```

```

        </div>
        <div id="container2i">
            <div id="import-header">
                <h1>Employee Credit View</h1>
            </div>
            <form
                action="Includes/printpdf.inc.php"
                method="post" enctype="multipart/form-data">
                <button type="submit" class="btn1" name="lacking">Print Lacking Points</button>
                <button type="submit" class="btn1" id="detailed" name="detailed">Print Detailed Summary</button>
                <button type="submit" class="btn1" id="zip" name="zip" title="Download Detailed Summary and NEM Apostille Certificate">Download Results</button>
                <?php
                    include_once 'server.php';
                    $email = $_SESSION["useremail"];
                    $sql = "SELECT * FROM totalpointsandrank WHERE email = ?;";
                    $stmt = mysqli_stmt_init($conn);
                    if (!mysqli_stmt_prepare($stmt, $sql)) {
                        exit();
                    } else {
                        mysqli_stmt_bind_param($stmt, "s", $email);
                        mysqli_stmt_execute($stmt);
                        $result = mysqli_stmt_get_result($stmt);
                        $row = mysqli_fetch_assoc($result);
                    }
                    $sql = "SELECT * FROM pt1_educ WHERE email = ?;";
                    $stmt = mysqli_stmt_init($conn);
                    if (!mysqli_stmt_prepare($stmt, $sql)) {
                        header("location: Import.php?error=stmtfailed");
                        exit();
                    } else {
                        mysqli_stmt_bind_param($stmt, "s", $email);
                        mysqli_stmt_execute($stmt);
                        $result1 = mysqli_stmt_get_result($stmt);
                        $row1 = mysqli_fetch_assoc($result1);
                    }
                    $sql = "SELECT * FROM pt2_exp WHERE email = ?;";
                    $stmt = mysqli_stmt_init($conn);
                    if (!mysqli_stmt_prepare($stmt, $sql)) {
                        header("location: Import.php?error=stmtfailed");
                        exit();
                    }
                </?>
                <?php
                    $sql = "SELECT * FROM pt3_achieve_1 WHERE email = ?;";
                    $stmt = mysqli_stmt_init($conn);
                    if (!mysqli_stmt_prepare($stmt, $sql)) {
                        header("location: Import.php?error=stmtfailed");
                        exit();
                    } else {
                        mysqli_stmt_bind_param($stmt, "s", $email);
                        mysqli_stmt_execute($stmt);
                        $result2 = mysqli_stmt_get_result($stmt);
                        $row2 = mysqli_fetch_assoc($result2);
                    }
                    $sql = "SELECT * FROM pt3_achieve_2 WHERE email = ?;";
                    $stmt = mysqli_stmt_init($conn);
                    if (!mysqli_stmt_prepare($stmt, $sql)) {
                        header("location: Import.php?error=stmtfailed");
                        exit();
                    } else {
                        mysqli_stmt_bind_param($stmt, "s", $email);
                        mysqli_stmt_execute($stmt);
                        $result3 = mysqli_stmt_get_result($stmt);
                        $row3 = mysqli_fetch_assoc($result3);
                    }
                    $sql = "SELECT * FROM pt3_achieve_3 WHERE email = ?;";
                    $stmt = mysqli_stmt_init($conn);
                    if (!mysqli_stmt_prepare($stmt, $sql)) {
                        header("location: Import.php?error=stmtfailed");
                        exit();
                    } else {
                        mysqli_stmt_bind_param($stmt, "s", $email);
                        mysqli_stmt_execute($stmt);
                        $result4 = mysqli_stmt_get_result($stmt);
                        $row4 = mysqli_fetch_assoc($result4);
                    }
                    $sql = "SELECT * FROM pt3_achieve_456 WHERE email = ?;";
                    $stmt = mysqli_stmt_init($conn);
                    if (!mysqli_stmt_prepare($stmt, $sql)) {
                        header("location: Import.php?error=stmtfailed");
                        exit();
                    }
                </?>
                <?php
                    $sql = "SELECT * FROM prev_pts WHERE email = ?;";
                    $stmt = mysqli_stmt_init($conn);
                    if (!mysqli_stmt_prepare($stmt, $sql)) {
                        header("location: Import.php?error=stmtfailed");
                        exit();
                    } else {
                        mysqli_stmt_bind_param($stmt, "s", $email);
                        mysqli_stmt_execute($stmt);
                        $result6 = mysqli_stmt_get_result($stmt);
                        $row6 = mysqli_fetch_assoc($result6);
                    }
                    $sql = "SELECT * FROM cat1 WHERE email = ?;";
                    $stmt = mysqli_stmt_init($conn);
                    if (!mysqli_stmt_prepare($stmt, $sql)) {
                        header("location: Import.php?error=stmtfailed");
                        exit();
                    } else {
                        mysqli_stmt_bind_param($stmt, "s", $email);
                        mysqli_stmt_execute($stmt);
                        $result7 = mysqli_stmt_get_result($stmt);
                        $row7 = mysqli_fetch_assoc($result7);
                    }
                    $total_points = $row1['cat1_total'] + $row2['cat2_total'] + $row3['cat31_total'] + $row4['cat32_total'] + $row5['cat33_total'] + $row6['cat3456_total'] + $row7['cat1_ini'] + $row7['cat2_ini'] + $row7['cat3_ini'];
                    $result_1 = $row1['cat1_total'] + $row7['cat1_ini'];
                    $result_2 = $row2['cat2_total'] + $row7['cat2_ini'];
                    $result_3 = $row3['cat31_total'] + $row4['cat32_total'] + $row5['cat33_total'] + $row6['cat3456_total'] + $row7['cat3_ini'];
                </?>
                </form>
                <h5 style="margin-top: 10px; margin-bottom: 0px; color: #6e1919;"><b>Present Rank:</b><?php echo $row['rank']; ?></h5>
                <table id="table1" class="table table-bordered mt-3">
                    <thead>
                        <tr>
                            <th scope="col" style="text-align: center;">Category</th>
                            <th scope="col" style="text-align: center;">Target Points</th>
                            <th scope="col" style="text-align: center;">Credit Points</th>
                        </tr>
                    </thead>
                    <tbody>
                        <tr>
                            <td>Total Points</td>
                            <td>$total_points</td>
                            <td>$result_1</td>
                        </tr>
                        <tr>
                            <td>Category 1 Points</td>
                            <td>$row1['cat1_total']</td>
                            <td>$result_2</td>
                        </tr>
                        <tr>
                            <td>Category 2 Points</td>
                            <td>$row2['cat2_total']</td>
                            <td>$result_3</td>
                        </tr>
                        <tr>
                            <td>Category 3 Points</td>
                            <td>$row3['cat31_total']</td>
                            <td>$row7['cat3_ini']</td>
                        </tr>
                    </tbody>
                </table>
            </div>
        </div>
    
```



```

text-decoration-line: none;
font-weight: bold;
font-size: 20px;
}
.link-item a:hover {
color: #f0e6da !important;
cursor: pointer;
}
.link-item:hover {
background-color: #6e1919;
color: #f0e6da !important;
transition: all 0.3s ease;
}
#profile:hover, #importPdf:hover,
#employeeCreditView:hover,
#logoutBtn:hover{
color: #f0e6da !important;
transition: all 0.3s ease;
}
#profile.active, #importPdf.active,
#employeeCreditView.active,
#logoutBtn.active{
color: #f0e6da;
transition: all 0.3s ease;
}
.tabcontent {
height: 394px;
}
tr {
text-align: center;
}
.modal3 {
position: fixed;
top:0%;
left: 0;
z-index: 1055;
display: none;
width: 100%;
height: 100%;
overflow-x: hidden;
overflow-y: auto;
outline: 0;
background-color: rgb(0,0,0); /* Fallback color */
background-color: rgba(0,0,0,0.4); /* Black w/ opacity */
-webkit-animation-name: fadeIn; /* Fade in the background */
-webkit-animation-duration: 0.4s;
animation-name: fadeIn;
animation-duration: 0.4s
}
.modal-header3 {
padding: 2px 16px;
background-color: #6d1919;
height: 40px;
}
/* Modal Body */
.modal-body3 {
padding: 16px 16px;
}
/* Modal Content */
.modal-content3 {
top: 15%;
position: relative;
background-color: #fefefe;
margin: auto;
padding: 0;
width: 30%;
height: 280px;
}
.box-shadow: 0 4px 8px 0
rgba(0,0,0,0.2),0 6px 20px 0
rgba(0,0,0,0.19);
animation-name: animatetop;
animation-duration: 0.4s
}
.btn4 {
background-color: transparent;
color: #976c62;
border: none;
font-size: 70px;
margin: 0px 0px;
text-align: center;
margin: auto;
width: 100%;
}
#btn5{
background-color: #d3d3d3 !important;
color: #6d1919;
padding: 5px;
border: none;
margin-bottom: 5px;
}
.file-upload {
margin-bottom: 10px;
}
.file-upload p{
color: #976c62;
text-align: center;
font-size: 15px;
}
</style>
<style>
/*ADJUSTMENTS IN THE NAVBAR*/
@media screen and (max-width: 600px){
.navbar {
height: 40px;
font-size: 1.2rem;
position: sticky !important;
}
.navbar__container {
display: flex;
justify-content: space-between;
height:100px;
z-index: 1;
width: 100%;
max-width: 1300px;
margin: 0 auto;
padding: 0 ;
}
.nbclogo img{
width: 47px;
height: 53px;
top: -8px !important;
left: 10px !important;
}
#navbar__logo {
font-size: 20px;
left: 65px !important;
height: 20px;
}
.navbar__menu.active {
font-size: 1rem;
}
#mobile-menu{
top: 0px;
}
body {
background-image: url(bg1.jpg);
background-position: center;
background-size: cover;
background-repeat: no-repeat;
background-attachment: fixed;
}
/*
ADJUSTMENTS FOR CONTAINER 1 TO DISAPPEAR */
@media screen and (max-width: 600px){
body{
background-image: none;
}
#container1{
display: none;
}
#container2Inside i{
font-size: 80px;
}
#container2InsideHeading{
width: 73%;
height: 100%;
justify-content: center;
font-size: 12px;
}
.h2,h2{
font-size: 25px;
}
}
/* NEW - NAVBAR MENU */
.navbar__links {
text-align: center;
padding: 0.5rem;
width: 100%;
display: table;
}
.linkk-item{
display: none;
}
.linkk-item{
padding: 5px 20px;
}
.navbar__item {
height: 53px;
}
@media screen and (max-width: 600px){
.linkk-item{
display: unset !important;
}
.tablink{
font-size:12px;
padding: 10px 3px
10px 3px;
}
}
/*ADJUSTMENTS PER PAGE */
#help-page{
padding: 12px !important;
}
@media screen and (max-width: 600px){
#import-header h1{
font-size:30px;
}
}

```

```

#navbar_logo{
    top: 10px !important;
}
}

</style>
</head>
<body>
    <!-- Navigation Bar Section -->
    <div class="full-page">
        <nav class="navbar">
            <div class="navbar_container">
                <div class="nbclogo">
                    
                </div>
                <a href="#home" id="navbar_logo" style="position:absolute; left:100px; top: 5px;">NBC2 iPromote</a>
                <div class="navbar_toggle" id="mobile-menu">
                    <span class="bar"></span>
                    <span class="bar"></span>
                    <span class="bar"></span>
                </div>
                <ul class="navbar_menu">
                    <li class="navbar_item">
                        <a href="userprofile.php" class="navbar_links" id="profile-page"><img src=<?php echo $defaultImg; ?> class="profile-img" style="width: 40px; height: 40px; border-radius: 50%;"><span style="margin-right: 15px;">Profile</a>
                    </li>
                    <li class="navbar_item">
                        <a href="help.php" class="navbar_links" id="help-page" style="padding: 11px !important;">FAQs</a>
                    </li>
                    <li class="linkk-item">
                        <a href="profile.php" class="navbar_links" id="profile">Home</a>
                    </li>
                    <li class="linkk-item">
                        <a href="Import.php" class="navbar_links" id="importPdf">Import PDF</a>
                    </li>
                    <li class="linkk-item">
                        <a href="ECV.php" class="navbar_links" id="employeeCreditView">Employee Credit View</a>
                    </li>
                    <li class="linkk-item">
                        <a href="filesarchive.php" class="navbar_links" id="logoutBtn">Files Archive</a>
                    </li>
                    <li class="linkk-item">
                        <a href="audit.php" class="navbar_links" id="logoutBtn">Audit</a>
                    </li>
                    <li class="linkk-item">
                        <br>
                    </li>
                </ul>
            </div>
        </nav>
        <div id="containerProfile">
            <div id="container1">
                <div id="containerLogo">
                    
                </div>
                <ul class="links">
                    <li class="link-item">
                        <a href="profile.php" id="profile">Home</a>
                    </li>
                    <li class="link-item">
                        <a href="Import.php" id="importPdf">Import PDF</a>
                    </li>
                    <li class="link-item">
                        <a href="ECV.php" id="employeeCreditView">Employee Credit View</a>
                    </li>
                    <li class="link-item" style="background-color: #6d1919;">
                        <a href="filesarchive.php" id="filesarchive">Files Archive</a>
                    </li>
                    <li class="link-item">
                        <a href="audit.php" id="logoutBtn">Audit</a>
                    </li>
                    <li class="link-item">
                        <a href="Includes/logout.inc.php" id="logoutBtn">Logout</a>
                    </li>
                </ul>
            </div>
        </div>
    </div>

```

```

        <h3>Experience      and
Length of Service</h3>
        <hr>
        <form
action="Includes/delete.inc.php"
method="post" enctype="multipart/form-
data">
        <button type="submit"
class="btn1" name="preview"
id="preview">Preview PDF</button>
        <button type="submit"
class="btn1" name="download"
id="download">Download</button>
        <button type="submit"
class="btn1" name="delete" id="delete"
hidden>Delete</button>
        <button type="button"
class="btn1" id="conf-
del1">Delete</button>
        <table>
        <tr>
            <th>Select</th>
            <th>File Name</th>
            <th>Date</th>
        </tr>
        <?php
        include_once
'./server.php';
        $email
= $_SESSION['useremail'];
        $category1 = 2;
        $sql = "SELECT * FROM userarchive WHERE email = ?
AND category = ?;";
        $stmt
= mysqli_stmt_init($conn);
        if
(!mysqli_stmt_prepare($stmt, $sql)){
            header("location:
./filesearch.php?error=stmtfailed");
            exit();
        } else {
        mysqli_stmt_bind_param($stmt, "ss",
$email,
$category1);
        mysqli_stmt_execute($stmt);
        $result
= mysqli_stmt_get_result($stmt);
        while ($row
= mysqli_fetch_assoc($result)) {
            echo '<tr>
                <td><input
type="checkbox" name="check_list[]"
value="'.$row['filename'].'"'
style="margin: 0px 10px;"></td>
                <td>'.$row['filename'].'</td>
                <td>'.$row['date_upload'].'</td>
            </tr>';
        }
    ?>
    </table>
    </form>
    </div>
    <div id="Contact"
class="tabcontent">
        <h3>Professional
Development Achievement and
Honors</h3>

```

```

        <hr>
        <form
action="Includes/delete.inc.php"
method="post" enctype="multipart/form-
data">
        <button type="submit"
class="btn1" name="preview"
id="preview">Preview PDF</button>
        <button type="submit"
class="btn1" name="download"
id="download">Download</button>
        <button type="submit"
class="btn1" name="delete" id="delete"
hidden>Delete</button>
        <button type="button"
class="btn1" id="conf-
del2">Delete</button>
        <table>
        <tr>
            <th>Select</th>
            <th>File Name</th>
            <th>Date</th>
        </tr>
        <?php
        include_once
'./server.php';
        $email
= $_SESSION['useremail'];
        $category2 = 3;
        $sql = "SELECT * FROM userarchive WHERE email = ?
AND category = ?;";
        $stmt
= mysqli_stmt_init($conn);
        if
(!mysqli_stmt_prepare($stmt, $sql)){
            header("location:
./filesearch.php?error=stmtfailed");
            exit();
        } else {
        mysqli_stmt_bind_param($stmt, "ss",
$email,
$category2);
        mysqli_stmt_execute($stmt);
        $result
= mysqli_stmt_get_result($stmt);
        while ($row
= mysqli_fetch_assoc($result)) {
            echo '<tr>
                <td><input
type="checkbox" name="check_list[]"
value="'.$row['filename'].'"'
style="margin: 0px 10px;"></td>
                <td>'.$row['filename'].'</td>
                <td>'.$row['date_upload'].'</td>
            </tr>';
        }
    ?>
    </table>
    </form>
    </div>
    </div>
    <div id="myModal3"
class="modal3">
        <div class="modal-content3">
            <div class="modal-header3"
style="color: #f0e6da; align-items:center;
padding-top: 5px;; font-size: 20px;">
                Delete?
            </div>
            <div class="modal-body3">
```

```

<form method="POST"
action="Includes/adduser.inc.php">
    <div class="file-upload">
        <button class="btn4" disabled><i class="fas fa-exclamation-triangle"></i></button>
        <br>
        <p>Are you sure you want to delete the following file/s? This action cannot be undone!</p>
    </div>
    <div class="btn3">
        <button type="button" class="btn1" id='conf' style="float:right">Confirm</button>
        <button type="button" class="close3" id='btn5' style="float:right; margin-right:10px;">Cancel</button>
    </div>
</form>
</div>
</div>
</div>
<script>
    function openPage(pageName, elmnt, color, textColor) {
        // Hide all elements with class="tabcontent" by default
        var i, tabcontent, tablinks;
        tabcontent = document.getElementsByClassName("tabcontent");
        for (i = 0; i < tabcontent.length; i++) {
            tabcontent[i].style.display = "none";
        }
        // Remove the background color of all tablinks/buttons
        tablinks = document.getElementsByClassName("tablink");
        for (i = 0; i < tablinks.length; i++) {
            tablinks[i].style.backgroundColor = "";
        }
        for (i = 0; i < tablinks.length; i++) {
            tablinks[i].style.color = "";
        }
        // Show the specific tab content
        document.getElementById(pageName).style.display = "block";

        // Add the specific color to the button used to open the tab content
        elmnt.style.backgroundColor = color;
        elmnt.style.color = textColor;
    }
    // Get the element with id="defaultOpen" and click on it
    document.getElementById("defaultOpen").click();
</script>
<script src="app.js"></script>
<script>
    var modal3 = document.getElementById("myModal3");
    var btn3 = document.getElementById("conf-del");
    var span3 = document.getElementsByClassName("close3")[0];
    btn3.onclick = function() {
        modal3.style.display = "block";
    }
    span3.onclick = function() {
        modal3.style.display = "none";
    }
    window.onclick = function(event) {
        if (event.target == modal3) {
            modal3.style.display = "none";
        }
    }
</script>
<script>
    const realFileBtn = document.getElementById("delete");
    const customBtn = document.getElementById("conf");
    customBtn.addEventListener("click", function() {
        realFileBtn.click();
    });
</script>
<script>
    var modal3 = document.getElementById("myModal3");
    var btn3 = document.getElementById("conf-del1");
    var span3 = document.getElementsByClassName("close3")[0];
    btn3.onclick = function() {
        modal3.style.display = "block";
    }
    span3.onclick = function() {
        modal3.style.display = "none";
    }
    window.onclick = function(event) {
        if (event.target == modal3) {
            modal3.style.display = "none";
        }
    }
</script>
<script>
    var modal3 = document.getElementById("myModal3");
    var btn3 = document.getElementById("conf-del2");
    var span3 = document.getElementsByClassName("close3")[0];
    btn3.onclick = function() {
        modal3.style.display = "block";
    }
    span3.onclick = function() {
        modal3.style.display = "none";
    }
    window.onclick = function(event) {
        if (event.target == modal3) {
            modal3.style.display = "none";
        }
    }
</script>
<script>
    var modal3 = document.getElementById("myModal3");
    var btn3 = document.getElementById("conf-del3");
    var span3 = document.getElementsByClassName("close3")[0];
    btn3.onclick = function() {
        modal3.style.display = "block";
    }
    span3.onclick = function() {
        modal3.style.display = "none";
    }
    window.onclick = function(event) {
        if (event.target == modal3) {
            modal3.style.display = "none";
        }
    }
</script>
</body>
</html>
<?php
} else{
    header("location: index.php?error=notloggedin");
    exit();
} ?>

forgotpassword.php
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>NBC2 iPromote</title>
    <link rel="icon" type="image/png" href="favicon.png">
    <link rel="stylesheet" href="style.css">
    <link rel="stylesheet" href="https://cdn.rawgit.com/mfd/09b70e47474836f25a21660282ce0fd/raw/e06a670afcb2b861ed2ac4a1ef752d062ef6b46b/Girroy.css">
    <style>
        @media screen and (max-width: 600px){
            .navbar {
                height: 40px;
                font-size: 1.2rem;
                position: sticky !important;
            }
            .navbar__container {
                display: flex;
                justify-content: space-between;
                height: 100px;
                z-index: 1;
                width: 100%;
                max-width: 1300px;
                margin: 0 auto;
                padding: 0 ;
            }
        }
</style>

```

```

.nbclogo img{
  width: 47px;
  height: 53px;
  top: -8px !important;
  left: 10px !important;
}
#navbar__logo {
  font-size: 20px;
  left: 65px !important;
  height: 20px;
}
.navbar__menu.active {
  font-size: 1rem;
}
#mobile-menu{
  top: 0px;
}
body {
  background-image: url(bg1.jpg);
  background-position: center;
  background-size: cover;
  background-repeat: no-repeat;
  background-attachment: fixed;
}
</style>
</head>
<body>

<div class="full-page">
  <nav class="navbar">
    <div class="navbar__container">
      <div class="nbclogo">
        
      </div>
      <a href="#home" id="navbar__logo" style="position:absolute; left:100px; top:10px;">NBC2 iPromote</a>
      <div class="navbar__toggle" id="mobile-menu">
        <span class="bar"></span>
        <span class="bar"></span>
        <span class="bar"></span>
      </div>
      <ul class="navbar__menu">
        <li class="navbar__item">
          <a href="index.php" class="navbar__links" id="home-page">Home</a>
        </li>
        <li class="navbar__item">
          <a href="about.php" class="navbar__links" id="about-page">About</a>
        </li>
        <li class="navbar__item">
          <a href="howto.php" class="navbar__links" id="howto-page">Guide</a>
        </li>
        <li class="navbar__item">
          <a href="register.php" class="navbar__links" id="register-page">Register</a>
        </li>
      </ul>
    </div>
  </nav>
  <div class="header-container">
    <div class="header-left">
      <h1 class="welcome-heading">Welcome to <br> NBC2 iPromote</h1>
      <hr>
      <h3 class="welcome-subheading">NBC Portal for Technological University of the <br> Philippines-Manila College of Engineering <br> Faculty</h3>
    </div>
    <div class="header-right">
      <div class="container-login">
        <div class="text">Forgot Password</div>
        <hr>
        <div></div>
        <form method='POST' action='Includes/reset-request.inc.php'>
          <div class="fptext">
            <p>Please enter your email address below and we will send you information to change your password.</p>
            <div></div>
            <?php
              if (isset($_GET["reset"])) {
                if ($_GET["reset"] == "success") {
                  echo "<p align='center'><font color=#6e1919>Link to reset your password is sent to your email.</font></p>";
                } else if ($_GET["reset"] == "resubmitrequest") {
                  echo "<p align='center'><font color=#6e1919>Please re-submit your request.</font></p>";
                } else if ($_GET["reset"] == "therewasanerror") {
                  echo "<p align='center'><font color:#6e1919>There was an error!</font></p>";
                }
              }
            ?>
            <div class="data">
              <label>Email</label>
              <input type="email" name="email" required>
            </div>
            <div class="btn">
              <div class="inner"></div>
            </div>
          </div>
        </form>
      </div>
    </div>
  </div>
</div>
<button id="login-button" type="submit" name="reset-request-submit">Submit</button>
</div>
</form>
</div>
</div>
<script src="app.js"></script>
</body>
</html>

help.php
<?php
  session_start();
  $defaultImg = $SESSION['profileImg'];
  if (isset($SESSION['useremail'])) {
  ?>
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>NBC2 iPromote</title>
  <link rel="icon" type="image/png" href="favicon.png">
  <link href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css" integrity="sha384-AYmEC3Yw5cVb3ZCvHtOA93w35dYTsvLPvN9s9eStHfGJvOvKxVfELGroGkvsg+p" crossorigin="anonymous"/>
  <link rel="stylesheet" href="style.css">
  <link href="scroll.css">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KyZXEAg3QhqLMpG8r+8fhAXLRk2vvOC2f3B09zVXn8CA5QIVfZOJ3BCsw2P0pWe" crossorigin="anonymous">
  <link href="https://cdn.rawgit.com/mfd/09b70eb47474836f25a21660282ce0fd/raw/e06a670afcb2b861ed2ac4a1ef752d062ef6b46b/Gilroy.css">
  <style>
    /*ADJUSTMENTS IN THE NAVBAR*/
    @media screen and (max-width: 600px){
      .navbar {
        height: 40px;
        font-size: 1.2rem;
        position: sticky !important;
      }
      .navbar__container {
        display: flex;
        justify-content: space-between;
        height:100px;
        z-index: 1;
      }
    }
  </style>

```

```

width: 100%;
max-width: 1300px;
margin: 0 auto;
padding: 0 ;
}
.nbclogo img{
width: 47px;
height: 53px;
top: -8px !important;
left: 10px !important;
}
#navbar_logo {
font-size: 20px;
left: 65px !important;
height: 20px;
}
.navbar_menu.active {
font-size: 1rem;
}
#mobile-menu{
top: 0px;
}
body {
background-image:
url(bg1.jpg);
background-position: center;
background-size: cover;
background-repeat: no-repeat;
background-attachment: fixed;
}
/* ADJUSTMENTS FOR
CONTAINER 1 TO DISAPPEAR */
@media screen and (max-width:
600px){
body{
background-image: none;
}
#container1{
display: none;
}
#container2Inside i{
font-size: 80px;
}
#container2InsideHeading{
width: 73%;
height: 100%;
justify-content: center;
font-size: 12px;
}
.h2,h2{
font-size: 25px;
}
}
/* NEW - NAVBAR MENU */
.navbar_links {
text-align: center;
padding: 0.5rem;
width: 100%;
display: table;
}
.linkk-item{
display: none;
}
.linkk-item{
padding: 5px 20px;
}
.navbar_item {
height: 53px;
}
@media screen and (max-width:
600px){
.linkk-item{
display: unset !important;
}
/* ADJUSTMENTS PER PAGE */
#help-page{
padding: 0.75rem;
}
@media screen and (max-width:
600px){
#import-header h1{
font-size:30px;
}
#navbar_logo{
top: 10px !important;
}
}
</style>
</head>
<body>
<!-- Navigation Bar Section --&gt;
&lt;div class="full-page"&gt;
&lt;nav class="navbar"&gt;
&lt;div class="navbar_container"&gt;
&lt;div class="nbclogo"&gt;

</div>
<div class="navbar_toggle" id="mobile-menu">
<span class="bar"></span>
<span class="bar"></span>
<span class="bar"></span>
</div>
<ul class="navbar_menu">
<li class="navbar_item">
Home

<li class="linkk-item" id="profile-page">
![profile-img](<?php echo $defaultImg; ?>)
Profile

<li class="navbar_item">
FAQs

<li class="linkk-item" href="Import.php" id="importPdf">
Import PDF

<li class="linkk-item" href="ECV.php" id="employeeCreditView">
Employee Credit View

<li class="linkk-item" href="audit.php" id="logoutBtn">
Audit

<li class="linkk-item" href="Includes/logout.inc.php" id="logoutBtn">
Logout


</div>
<div id="container1">
<div id="containerLogo">
![tup_logo.png](tup_logo.png)
</div>
<ul class="links">
- Home
- Import PDF
- Employee Credit View
- Logout


</div>
<div id="container2i">
<div id="import-header">


# Frequently Asked Questions (FAQs)


</div>
<div class="accordion">
<div>
<input type="radio" name="example_accordion" id="section1" class="accordion_input">

```

<label for="section1" class="accordion\_label">How to use NBC2 iPromote?</label>
 <div class="accordion\_content">
 <p>How to use NBC2 iPromote</p>
 <br>
 1. After logging in to your account, scan your documents on the scanner of the kiosk and save it in PDF format. If you already have a digital copy, you can transfer the document from your flash drive to the kiosk.
 <br>
 2. Go to 'Import PDF' page and upload your PDF files one at a time, then click the 'Start' button.
 <br>
 3. The system will then process your document and allocate their corresponding credit points.
 <br>
 4. Repeat steps 2 and 3 for the remaining document files.
 <br>
 5. Your total credit points in each category will be shown on the 'Employee Credit View' page.
 <br>
 6. You have the option to print a summary of your current credit points or points that you lack per category. A compilation of your results can also be downloaded (Detailed Summary and NEM Apostille Certificate) which will be used on the 'Audit Page'.
 The generated summary of points PDF file is notarized by NEM Blockchain's Apostille Service.
 <br>
 7. All of the PDF files the user uploaded will be stored in the 'Files Archive' page where it can be downloaded, preview, and delete.
 <br>
 8. Training or events available that a faculty may join to increase their points can be seen upon clicking the 'Training Available' button that can be found on the 'Employee Credit View' page.
 <br>
 9. Upload your downloaded Detailed Summary Results on the 'Audit Page' to verify the Apostille.
 </div>
 <input type="radio" name="exampleAccordion" id="section2" class="accordion\_input">
 <label for="section2" class="accordion\_label">What does the 'Status' on 'Import PDF' means?</label>
 <div class="accordion\_content">
 <p>What does the 'Status' on 'Import PDF' means?</p>
 <br>
 1. COMPLETED - The document is successfully uploaded and points equivalent are credited to the database.
 <br>
 2. Pending (NNF) - The system did not/failed to detect the name on the document uploaded.
 <br>
 3. Pending (DNWC) - The system detected that the document uploaded was issued on a date not within the current cycle.
 <br>
 4. Max Points - The user has reached the maximum number of points in a certain subcategory. The system will no longer add points regardless of whether the document is valid.
 <br>
 </p>
 </div>
 </div>
 <input type="radio" name="exampleAccordion" id="section3" class="accordion\_input">
 <label for="section3" class="accordion\_label">What should I expect if my uploaded file's status is "Pending"?</label>
 <div class="accordion\_content">
 <p>What should I expect if my uploaded file's status is "Pending (NNF/DNWC)"?</p>
 <br>
 Files with the status "Pending" will be sent to the respective department's admin, in this case, the local evaluator or the Department Head.
 If the file is valid, the admin will assess it and decide whether or not to reject it or award points to it.
 Once a decision has been made, the file's status will change to "Declined" if no credit points were provided, or "Completed" if credit points were given.
 <br>
 </p>
 </div>
 </div>
 <input type="radio" name="exampleAccordion" id="section4" class="accordion\_input">
 <label for="section4" class="accordion\_label">What if the document I uploaded was issued on a date that is not within the current cycle?</label>
 <div class="accordion\_content">
 <p>What if the document I uploaded was issued on a date that is not within the current cycle?</p>
 <br>
 The file will only be stored on the database for the user's digital copy and can be retrieved whenever needed.
 If the document was issued on a later date and can be used for the next cycle, the user can upload the file from the storage to be allocated with its corresponding credit points.
 <br>
 </p>
 </div>
 </div>
 <input type="radio" name="exampleAccordion" id="section5" class="accordion\_input">
 <label for="section5" class="accordion\_label">How to use the scanner?</label>
 <div class="accordion\_content">
 <p>How to use the scanner?</p>
 <br>
 1. Search for 'IJ Scan Utility' on the taskbar. Then, open the software.
 <br>
 2. Place your document on top of the glass of the scanner. Close the cover.
 <br>
 3. Make sure that the 'Product Name' is set to CanoScan LiDE 300.
 <br>
 4. On the 'IJ Utility Scan' window, click 'Document' to scan the document.
 <br>
 5. A PDF Editor window will appear wherein you will be able to manually correct the orientation and rotate the document.
 <br>
 6. Click the 'Save File' button () to save the file.
 <br>
 7. The scanned document will be in a PDF format and saved at the 'Documents' folder.
 <br>
 </p>
 </div>
 </div>
 <input type="radio" name="exampleAccordion" id="section6" class="accordion\_input">
 <label for="section6" class="accordion\_label">Document was not saved on the database and wasn't given points</label>
 <div class="accordion\_content">
 <p>Document was not saved on the database and wasn't given points</p>
 <br>
 </p>
 </div>
 </div>
 </div>
 </div>
 </div>
 </div>

One of the system's constraints is the ability to process documents simultaneously. When multiple users upload their document at the same time,

the system only recognizes the most recent document and will take longer to process. Although, the first user's page refreshes upon uploading, points will not be awarded. Hence, kindly re-upload after a while.

```
</p>
</div>
</div>
<div>
  <input type="radio"
name="example_accordion"
id="section7" class="accordion__input">
  <label for="section7"
class="accordion__label">Why is my Notary Transaction Hashkey different every time I click the 'Download Results' button?</label>
<div
class="accordion__content">
  <p>Why is my Notary Transaction Hashkey different every time I click the 'Download Results' button?</p>
</p>
```

The NEM Apostille notarizes your detailed summary result every time you click the 'Download Results' button and generates a new transaction hashkey.

Hence, downloading a compilation of your results first by clicking the 'Download Results' button to generate a corresponding hashkey before printing your detailed summary and NEM Apostille certificate by clicking the 'Print Detailed Summary' button, is a must.

If you choose not to, your NEM Apostille certificate's notary transaction hashkey will be left blank.

If the user did not print their detailed summary and NEM Apostille certificate after downloading their results, they can print their files without having to download their compiled results the next time they log back in.

One 'Download Results' click = One 'Print Detailed Summary' click.

```
</p>
</div>
</div>
<div>
  <input type="radio"
name="example_accordion"
id="section8" class="accordion__input">
  <label for="section8"
class="accordion__label">How to verify the Apostille of Detailed Summary PDF file?</label>
<div
class="accordion__content">
```

<p>How to verify the Apostille of Detailed Summary PDF file?</p>

<p>

1. On the 'Employee Credit View' page, click the Download Results button to download a compilation of your results (Detailed Summary and NEM Apostille Certificate PDF files).

<br>

2. On the 'Audit' page, upload your Detailed Summary PDF file and enter the notary transaction hash key that can be found on the NEM Apostille certificate.

<br>

3. If the system returns that the Apostille is Valid, no changes were made on the PDF file. However, if the system returns Invalid, changes were made or the PDF file was manipulated.

<br>

Note: Do not change the filename of your Detailed Summary!

</p>

```
</div>
<div>
  <input type="radio"
name="example_accordion"
id="section9" class="accordion__input">
  <label for="section9"
class="accordion__label">Can I still check if my previously downloaded Detailed Summary Result is valid or not on the 'Audit' page?</label>
<div
class="accordion__content">
  <p>Can I still check if my previously downloaded Detailed Summary Result is valid or not on the 'Audit' page?</p>
</p>
```

Yes, if you have downloaded your compiled results multiple times, you can verify all of their Apostille. However, make sure that you will be uploading the correct file and its corresponding transaction hashkey.

```
</p>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</script src="app.js"></script>
</body>
</html>
<?php
} else{
  header("location:
index.php?error=notloggedin");
  exit();
}
?>
```

## howto.php

```
<!DOCTYPE html>
<html lang="en">
```

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible"

content="IE=edge">

<meta name="viewport"

content="width=device-width, initial-

scale=1.0">

<title>NBC2 iPromote</title>

<link rel="icon" type="image/png"

href="favicon.png">

<link rel="stylesheet"

href="https://pro.fontawesome.com/rele-

ses/v5.10.0/css/all.css"

integrity="sha384-

AYmEC3Yw5cVb3ZcuHtOA93w35dYT

svhLPVnYs9eStHfGJvOvKxVfELGroG

kvsg+" crossorigin="anonymous"/>

<link rel="stylesheet" href="style.css">

<link rel="stylesheet" href="scroll.css">

<link rel="stylesheet" href="https://cdn.rawgit.com/mfd/09b70e

b47474836f25a21660282ce0fd/raw/e06a

670aefcb2b861ed2ac4a1ef752d062ef6b46

b/Gilroy.css">

<style>

@media screen and (max-width:

600px){

.navbar {
 height: 40px;
 font-size: 1.2rem;
 position: sticky !important;
}

.navbar\_\_container {
 display: flex;
 justify-content: space-between;
 height: 100px;
 z-index: 1;
 width: 100%;
 max-width: 1300px;
 margin: 0 auto;
 padding: 0 ;
}

.nbclogo img{
 width: 47px;
 height: 53px;
 top: -8px !important;
 left: 10px !important;
}

#navbar\_\_logo {
 font-size: 20px;
 left: 65px !important;
 height: 20px;
}

.navbar\_\_menu.active {
 font-size: 1rem;
}

#mobile-menu{
 top: 0px;
}

body {
 background-image:
url(bg1.jpg);
 background-position: center;
 background-size: cover;
 background-repeat: no-repeat;
 background-attachment: fixed;
}

.tab {
 float: left;

```

border: 1px solid #ccc;
background-color: #6e1919;
width: 30%;
height: 400px;
}
/* Style the buttons inside the tab */
.tablinks, .tablinks1 {
padding: 4px 8px !important;
font-size: 10px !important;
font-weight: bold;
}
/* Style the tab content */
.tabcontent {
float: left;
padding: 0px 12px;
border: 1px solid #6e1919;
width: 70%;
border-left: none;
height: 400px;
}
}
/*.about-instruction {
display: flex;
justify-content: space-around;
flex-wrap: wrap;
align-items: center;
flex: 1;
}
*/
.about-container{
padding: 0% 5%;
}
.about-heading {
width: 100% !important;
margin: 15px auto;
}
.about-heading h2 {
font-family: 'Gilroy';
color: #6d1919;
width: 100%;
font-size: 30px;
}
.tabcontent h4 {
font-family: 'Gilroy';
color: #976c62;
width: 100%;
margin: 10px 0;
text-align: left;
}
</style>
<style>
* {box-sizing: border-box}

/* Style the tab */
.tab {
float: left;
border: 3px solid #6e1919;
background-color: #f0e6da;
width: 30%;
height: 400px;
}
/* Style the buttons inside the tab */
.tablinks, .tablinks1 {
display: block;
background-color: inherit;
color: #6e1919;
padding: 8px 16px;
width: 100%;
border: none;
outline: none;
text-align: left;
cursor: pointer;
transition: 0.3s;
font-size: 17px;
font-weight: bold;
}
.tablinks i {
margin-right: 8px;
}
/* Change background color of buttons on hover */
.tablinks:hover {
background-color: #6e1919;
color: #f0e6da;
}
/* Create an active/current "tab button" class */
.tablinks.active {
background-color: #6e1919;
color: #f0e6da;
}
/* Style the tab content */
.tabcontent {
float: left;
padding: 0px 24px;
border: 3px solid #6e1919;
width: 70%;
border-left: none;
height: 400px;
}
.tabcontent h3 {
margin: 10px auto;
}
.tabcontent p{
font-size: 15px;
font-weight: normal;
text-align: justify;
text-indent: 40px;
margin-bottom: 10px;
}
.steps {
display: flex;
flex-direction: column;
align-items: center;
margin-bottom: 20px;
}
.step-container, .step-container1 {
padding: 10px;
background-color: white;
width: 75% !important;
display: flex;
margin: 5px 0;
flex-wrap: wrap;
justify-content: center;
box-shadow: 3px 3px 3px #976c62;
flex-direction: row;
}
.step-container p{
font-size: 15px;
text-align: center;
font-weight: normal;
color: #6e1919;
width: 100%;
}
.number{
width: 30px;
height: 30px;
padding: 5px;
background-color: #6e1919;
border-radius: 50%;
color: white;
font-size: 15px;
text-align: center;
font-weight: bold;
}

```

```

#91645a; color: #f0e6da" disabled>As a
Faculty Member</button>
    <button class="tablinks"
onclick="openCity(event, 'faculty1')"
id="defaultOpen"><i class="fa fa-cloud-
upload" aria-
hidden="true"></i>Importing
PDFs</button>
    <button class="tablinks"
onclick="openCity(event, 'faculty2')"
aria-
hidden="true"></i>Downloading
Results</button>
    <button class="tablinks"
onclick="openCity(event, 'faculty3')"
aria-
hidden="true"></i>Verifying Apostille of
Result</button>
    <button class="tablinks"
onclick="openCity(event, 'faculty4')"
aria-
hidden="true"></i>Other
Features</button>
    <button class="tablinks1"
style="font-size: 22px; background-color:
#91645a; color: #f0e6da" disabled>As an
Admin</button>
    <button class="tablinks"
onclick="openCity(event, 'admin1')"
aria-
hidden="true"></i>Managing Users and
Training</button>
    <button class="tablinks"
onclick="openCity(event, 'admin2')"
aria-
hidden="true"></i>Manual Document
Classification</button>
    <button class="tablinks"
onclick="openCity(event, 'admin3')"
aria-
hidden="true"></i>Validation
Section</button>
    <div>
        <div id="faculty1"
class="tabcontent">
            <h3>Step-by-Step Process on How
to Use NBC2 iPromote</h3>
            <div class="steps">
                <div class="step-container">
                    <div
class="number">1</div>
                    <p>Create an account
using the pseudocode provided in the
email sent.</p>
                </div>
                <div class="step-container">
                    <div
class="number">2</div>
                    <p class="content">After
creating an account, log in using the
credentials you entered upon registration.
</p>
                </div>
                <div class="step-container">
                    <div
class="number">3</div>
                    <p class="content">After
logging in, scan your documents on the
scanner of the kiosk and save it in PDF
format. If you already have a digital copy,

```

you can transfer the document from your flash drive to the kiosk. One document must be saved as a single PDF file, do not combine separate documents in one PDF file.</p>

</div>

<div class="step-container">

<div

class="number">4</div>

<p class="content">Go to

'Import PDF' page and upload your PDF
file, then click the 'Start' button. Do this
one at a time.</p>

</div>

<div class="step-container">

<div

class="number">5</div>

<p class="content">The

system will then process your document
and allocate their corresponding credit
points.</p>

</div>

<div class="step-container">

<div

class="number">6</div>

<p

class="content">Repeat steps 3 and 4 for
the remaining document files.</p>

</div>

<div class="step-container">

<div

class="number">7</div>

<p class="content">A
prompt will appear indicating that the
the upload is successful and details such as the
filename, points awarded, status, and the
date when it was uploaded will be
shown.</p>

</div>

</div>

<div>

<p>The status of your
document may be one of the
following:</p>

<p style="text-indent:0
!important">a) <b>COMPLETED</b> -
The document is successfully uploaded
and points equivalent are credited to the
database.

<br>

b) <b>Pending (NNF)</b> -

The system did not/failed to detect the
name on the document uploaded.

<br>

c) <b>Pending (DNWC)</b> -

- The system detected that the document
uploaded was issued on a date not within
the current cycle.

<br>

d) <b>DECLINED</b> -

The admin refused to award points to the
document submitted.

<br>

e) <b>Max Points</b> -
The
user has reached the maximum number of
points in a certain subcategory. The
system will no longer add points
regardless of whether the document is
valid.

</p>

<p>If the status of the file falls
under either of the 'Pending' status, it will
be manually assessed by the admin. </p>

</div>

</div>
<div id="faculty2"
class="tabcontent">

<h3>Downloading Compilation of
Results</h3>

<p>Your total credit points in each
main category will be shown on the
'Employee Credit View' page. You have
the option to print a summary of your
current credit points along with your NEM
Apostille certificate or points that you lack
per category. </p>

<p>Downloading a compilation of
your results first by clicking the
'Download Results' button to generate a
corresponding hashkey before printing
your detailed summary and NEM
Apostille certificate by clicking the 'Print
Detailed Summary' button, is a must. If
you choose not to, your NEM Apostille
certificate's notary transaction hashkey
will be left blank when you print your
detailed summary result. If the user did not
print their detailed summary and NEM
Apostille certificate after downloading
their results, they can print their files
without having to download their
compiled results the next time they log
back in. One 'Download Results' click is
equal to One 'Print Detailed Summary'
click.</p>

<p>The generated summary of
points PDF file is notarized by NEM
Blockchain's Apostille Service. The NEM
Apostille notarizes your detailed summary
result every time you click the 'Download
Results' button and generates a new
transaction hashkey.</p>

</div>
<div id="faculty3"
class="tabcontent">

<h3>Verifying Apostille of
Result</h3>

<div class="steps">
<div class="step-container">

<div

class="number">1</div>

<p>On the 'Employee
Credit View' page, click the Download
Results button to download a compilation
of your results (Detailed Summary and
NEM Apostille Certificate PDF
files).</p>

</div>
<div class="step-container">

<div

class="number">2</div>

<p class="content">On the
'Audit' page, upload your Detailed
Summary PDF file and enter the notary
transaction hash key that can be found on
the NEM Apostille certificate.</p>

</div>
<div class="step-container">

<div

class="number">3</div>

<p class="content">If the system returns that the Apostille is Valid, no changes were made to the PDF file. However, if the system returns Invalid, changes were made or the PDF file was manipulated. If error occurred, an invalid notary transaction hash key might have been entered.</p>

```

        </div>
    </div>
</div> id="faculty4"
class="tabcontent">

```

<h3>Other Features</h3>
<h4>Available Training</h4>
<p>On the 'Employee Credit View' page, a 'Training Available' button can be seen at the bottom of the table. Once clicked, a modal will appear containing the details of future trainings, events, or seminars that the faculty can attend to increase their points.

A certain faculty can only view trainings suggested by their respective admin or their department head.</p>

<h4>Uploaded Documents Archive</h4>

<p>'Files Archive' contains an archive of all of your submitted files, which you can preview, download, and/or delete for future use. If you download it, it will save all of the selected files in a zip file.

Previewing the file also allows you to print it through the kiosk's printer.</p>

<h4>Account Settings</h4>

<p>You can update your profile photo as well as your password on the 'Profile' page. Other information, such as your name, email address, and department, cannot be changed.</p>

</div>

```

<div id="admin1"
class="tabcontent">
    <h3>Managing Users and
Training</h3>

```

<h4>Sending Pseudocode to Faculty Members</h4>

<p>The admin is the one responsible in sending a pseudocode to the faculty members through the 'Users' page's 'Invite to Join' button.

Here, the admin will have to enter the TUP email address of the faculty member and has an option to choose from the list of pre-generated pseudocodes or to generate a new pseudocode. </p>

<h4>Managing Users</h4>

<p>The admin can see all of the faculty members who have created their accounts on the 'Users View' page. However, the admin can only see faculty members who are part of the same department.

If necessary, the admin can delete an account as well as add a new user. </p>

<h4>Create Training</h4>

<p>The admin is in charge of suggesting or recommending trainings,

activities, or seminars in which faculty members can earn more points. They can edit or update the details of the training produced if it was postponed, or they can delete it if it has passed the date or will no longer push through.

Said training must be related to the department's discipline.</p>

```

        </div>
        <div id="admin2"
class="tabcontent">
    <h3>Manual Document
Classification</h3>

```

<p>All pending files of the faculty members within the same department will be subjected to manual checking of the admin. When the 'View and Edit' button is pressed, a modal will appear displaying the selected file. If the file submitted is not valid, the admin would have to click the 'Decline' button of that file. However, if it is valid, the appropriate main category as well as the subcategory in which the document falls under to, must be selected.

The system will then automatically award the corresponding credit points to the file. </p>

```

        </div>
        <div id="admin3"
class="tabcontent">
    <h3>Validation Section</h3>

```

<p>Admins or Department Heads are highly encouraged to verify the output of the developed system and, if necessary, classify it into the appropriate category and subcategory. This will aid the proponents in evaluating the accuracy of the results generated by the developed system. Those files or documents that were awarded points by the system itself, or those with status as 'COMPLETED' originally, will be displayed.

Here, the admin will verify to see if the system accurately classified it into its main and subcategory, as well as if the assigned points were correctly awarded. If the system awarded points to the files despite the fact that they were invalid, the admin must click 'Invalid'. The admin can select yes or no in the 'Accurate' column. 'Yes' if it is correctly classified, and 'No' if it is not, in which the administrator must classify it to its right category.</p>

```

        </div>
        </div>
        <script src="app.js"></script>
        <script>
function openCity(evt, cityName) {
    var i, tabcontent, tablinks;

```

tabcontent = document.getElementsByClassName("tabcontent");
for (i = 0; i < tabcontent.length; i++) {
 tabcontent[i].style.display = "none";
}
tablinks = document.getElementsByClassName("tablinks");
for (i = 0; i < tablinks.length; i++) {

```

    tablinks[i].className = tablinks[i].className.replace(" active", "");
}
document.getElementById(cityName).style.display = "block";
evt.currentTarget.className += " active";
}
// Get the element with id="defaultOpen" and click on it
document.getElementById("defaultOpen").click();
</script>
</body>
</html>
```

## Import.php

```

<?php
session_start();
$defaultImg =
$_SESSION['profileImg'];
if (isset($_SESSION['useremail'])) {
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible"
content="IE=edge">
    <meta name="viewport"
content="width=device-width, initial-
scale=1.0">
    <title>NBC2 iPromote</title>
    <link rel="icon" type="image/png"
href="favicon.png">
    <link rel="stylesheet"
href="https://pro.fontawesome.com/relea-
ses/v5.10.0/css/all.css"
integrity="sha384-
AYmEC3Yw5cVb3ZcuHtOA93w35dYT
svhLPVnYs9eStHfGJvOvKxViELGroG
kvsg+p" crossorigin="anonymous"/>
    <link rel="stylesheet" href="style.css">
    <link rel="stylesheet"
href="scroll.css">
    <link
href="https://cdn.jsdelivr.net/npm/bootstr-
ap@5.1.0/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
KyZXEAg3QhqLMpG8r+8fhAXLRk2vv
oC2f3B09zVXn8CA5QIVfZOJ3BCsw2P
0p>We" crossorigin="anonymous">
    <link rel="stylesheet"
href="https://cdn.rawgit.com/mfd/09b70e
b47474836f25a21660282ce0fd/raw/e06a
670aefcb2b861ed2ac4a1ef752d062ef6b46
b/Gilroy.css">
    <script
src="https://cdnjs.cloudflare.com/ajax/lib-
s/jquery/3.5.1/jquery.min.js"
integrity="sha512-
bLTOQm9VnAYZDflyKcBaQ2gg0hSY
NQr8RilYldYQ1FxQYoCLtUjuRuZo+
fjqhx/qt/1itj0C2ejDxlZVFg==">
    <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/
3.3.7/js/bootstrap.min.js"></script>
?>
```

```

<style>
/* Modal Header */
.parag{
    color: #6d1919;
    background-color: #f0e6da;
    font-size: 15px;
    text-align: center;
    font-weight: bold;
    padding: 5px;
}
.link-item{
    padding: 5px 20px;
}
.link-item a {
    color: #6e1919;
    text-decoration-line: none;
    font-weight: bold;
    font-size: 20px;
}
.link-item a:hover {
    color: #f0e6da !important;
    cursor: pointer;
}
.users-table {
    overflow-y: scroll;
    max-height:350px;
    margin-bottom: 10px;
    padding-top: 0px !important;
}
.link-item:hover {
    background-color: #6e1919;
    color: #f0e6da !important;
    transition: all 0.3s ease;
}
#profile:hover, #importPdf:hover,
#employeeCreditView:hover,
#logoutBtn:hover{
    color: #f0e6da !important;
    transition: all 0.3s ease;
}
#profile.active, #importPdf.active,
#employeeCreditView.active,
#logoutBtn.active{
    color: #f0e6da;
    transition: all 0.3s ease;
}
.modal {
    position: fixed;
    top:30%;
    left: 0;
    z-index: 1055;
    display: none;
    width: 100%;
    height: 100%;
    overflow-x: hidden;
    overflow-y: auto;
    outline: 0;
}
.modal-header {
    padding: 2px 16px;
    background-color: #6d1919;
}
.close{
    color: white !important;
    font-size: 1.5rem !important;
    float: right !important;
}
.close:hover,
.close:focus {
    color: #000 !important;
}

.parag{
    text-decoration: none;
    cursor: pointer;
}
/* Modal Body */
.modal-body {padding: 2px 16px;}
/* Modal Content */
.modal-content {
    position: relative;
    background-color: #fefefe;
    margin: auto;
    padding: 0;
    width: 30%;
    box-shadow: 0 4px 8px 0 rgba(0,0,0,0.2), 0 6px 20px 0 rgba(0,0,0,0.19);
    animation-name: animatetop;
    animation-duration: 0.4s
}
#table1 {
    margin-top: 0px !important;
}
/* Add Animation */
@keyframes animatetop {
    from {top: -300px; opacity: 0}
    to {top: 0; opacity: 1}
}
</style>
<style>
/*ADJUSTMENTS IN THE NAVBAR*/
@media screen and (max-width: 600px){
    .navbar {
        height: 40px;
        font-size: 1.2rem;
        position: sticky !important;
    }
    .navbar__container {
        display: flex;
        justify-content: space-between;
        height: 100px;
        z-index: 1;
        width: 100%;
        max-width: 1300px;
        margin: 0 auto;
        padding: 0 ;
    }
    .nbclogo img{
        width: 47px;
        height: 53px;
        top: -8px !important;
        left: 10px !important;
    }
    #navbar__logo {
        font-size: 20px;
        left: 65px !important;
        height: 20px;
    }
    .navbar__menu.active {
        font-size: 1rem;
    }
    #mobile-menu{
        top: 0px;
    }
    body {
        background-image: url(bg1.jpg);
        background-position: center;
        background-size: cover;
        background-repeat: no-repeat;
    }
}
background-attachment: fixed;
}
/* ADJUSTMENTS FOR CONTAINER 1 TO DISAPPEAR */
@media screen and (max-width: 600px){
    body{
        background-image: none;
    }
    #container1{
        display: none;
    }
    #container2Inside i{
        font-size: 80px;
    }
    #container2InsideHeading{
        width: 73%;
        height: 100%;
        justify-content: center;
        font-size: 12px;
    }
    .h2,h2{
        font-size: 25px;
    }
}
/* NEW - NAVBAR MENU */
.navbar__links {
    text-align: center;
    padding: 0.5rem;
    width: 100%;
    display: table;
}
.link-item{
    display: none;
}
.linkk-item{
    padding: 5px 20px;
}
.navbar__item {
    height: 53px;
}
@media screen and (max-width: 600px){
    .linkk-item{
        display: unset !important;
    }
}
/* ADJUSTMENTS PER PAGE */
#help-page{
    padding: 0.75rem;
}
@media screen and (max-width: 600px){
    #import-header h1{
        font-size:30px;
    }
    #navbar__logo{
        top: 10px !important;
    }
}
</style>
<script>
</script>
</head>
<body>
<!-- Navigation Bar Section -->
<div class="full-page">
    <nav class="navbar">
        <div class="navbar__container">

```

```

<div class="nbclogo">
    
        </div>
        <a href="#home" id="navbar_logo" style="position: absolute; left: 30px; top: 1px;">
            </div>
            <div class="navbar_toggle" id="mobile-menu">
                <span class="bar"></span>
                <span class="bar"></span>
                <span class="bar"></span>
            </div>
            <ul class="navbar_menu">
                <li class="navbar_item">
                    <a href="userprofile.php" class="navbar_links" id="profile-page">
                                    <td>' . $row['filename'] . '</td>
                                    <td>' . $row['points'] . '</td>
                                    <td>' . $row['pdf_status'] . '</td>
                                    <td>' . $row['date_upload'] . '</td>
                                </tr>';
                        }
                    }
                >
            </tbody>
        </table>
    </div>
    <form action="upload.php" method="post" enctype="multipart/form-data" id="uploadForm">
        <input type="file" class="upload-file" id="real-file" name="file" accept="application/pdf" hidden="hidden"/>
        <button type="button" class="btn1" name="choosefile" id="choosefile"><i class="fa fa-upload" aria-hidden="true"></i> Choose File</button>
        <button type="submit" class="btn1" name="submit" id="custom-button">Upload</button>
    <div id="custom-text">No file chosen, yet.</div>
    </form>
</div>
</div>
</div id="myModal" class="modal">
<div class="modal-content">
    <div class="modal-header">
        <span class="close">&times;</span>
    </div>
    <div class="modal-body">
        <?php
            if (isset($_GET["error"])){
                echo '<script>
                    var modal =
                        document.getElementById("myModal");
                    var span =
                        document.getElementsByClassName("close")[0];
                    modal.style.display =
                        "block";
                    span.onclick =
                        function() {
                            modal.style.display =
                                "none";
                        }
                </script>
';
            }
        <?php
            include_once 'server.php';
            $email = $_SESSION["useremail"];
            $sql = "SELECT * FROM userarchive WHERE email = ?;";
            $stmt = mysqli_stmt_init($conn);

```


```

```

        }
        window.onclick      =
function(event) {
        if (event.target == modal) {
            modal.style.display =
"none";
        }
    }
</script>;
    if ($_GET["error"] ==
"uploadsucces") {
        echo      "<p align='center'><font color=#6e1919>Upload Successful!</font></p>";
    } else if
($_GET["error"] == "largefilesize") {
        echo      "<p align='center'><font color=#6e1919>File size is too big!</font></p>";
    } else if
($_GET["error"] == "failedupload") {
        echo      "<p align='center'><font color=#6e1919>There was an error uploading your file!</font></p>";
    } else if
($_GET["error"] == "filenotallowed") {
        echo      "<p align='center'><font color=#6e1919>File of this type is not allowed!</font></p>";
    } else if
($_GET["error"] == "maxpoints") {
        echo      "<p align='center'><font color=#6e1919>Maximum points reached!</font></p>";
    }
}
?>
</div>
</div>
</div>
<script>
    const realFileBtn =
document.getElementById("real-file");
    const customBtn =
document.getElementById("choosefile");
    const customTxt =
document.getElementById("custom-text");
    customBtn.addEventListener("click",
function() {
    realFileBtn.click();
});
    realFileBtn.addEventListener("change",
function() {
    if (realFileBtn.value) {
        customTxt.innerHTML =
realFileBtn.value.match(
/[\w\W](\w\d\s,\-\(\))/\$/)[1];
    } else {
        customTxt.innerHTML = "No file chosen, yet.";
    }
});
</script>
<script src="app.js"></script>

```

```

background-attachment: fixed;
}
.welcome-heading{
text-align: center;
font-size: 3rem !important;
}
.welcome-subheading{
text-align: center;
font-size: 15px !important;
}
}
body {
background-image: url(homebg.jpg)
!important;
background-position: center;
background-size: cover;
background-repeat: no-repeat;
background-attachment: fixed;
}
.welcome-heading {
font-family: 'Gilroy';
text-align: center;
color: #6e1919;
font-size: 4rem;
letter-spacing: 5px;
}
.welcome-subheading{
color: #f0e6da;
text-align:center;
letter-spacing: 2px;
font-weight: normal !important;
}
}
</style>
<style>
.header-left{
animation: fadeInAnimation ease
3s;
animation-iteration-count: 1;
animation-fill-mode: forwards;
}
@keyframes fadeInAnimation {
0% {
    opacity: 0;
}
100% {
    opacity: 1;
}
}
</style>
</head>
<body>
<!-- Navigation Bar Section --&gt;
&lt;div class="full-page"&gt;
&lt;nav class="navbar"&gt;
&lt;div class="navbar__container"&gt;
&lt;div class="nbclogo"&gt;
&lt;img src="nbclogo.png"
height=60px width=60px
style="position:absolute; left: 30px; top:
1px;"&gt;
&lt;/div&gt;
&lt;a href="#home"
id="navbar__logo"
style="position:absolute; left:100px;
top:10px"&gt;NBC2 iPromote&lt;/a&gt;
&lt;div class="navbar__toggle"
id="mobile-menu"&gt;
&lt;span class="bar"&gt;&lt;/span&gt;
&lt;span class="bar"&gt;&lt;/span&gt;
</pre>

```

```

        <span class="bar"></span>
    </div>
    <ul class="navbar__menu">
        <li class="navbar__item">
            <a href="#home" id="home-page">Home</a>
        </li>
        <li class="navbar__item">
            <a href="about.php" id="about-page">About</a>
        </li>
        <li class="navbar__item">
            <a href="howto.php" id="howto-page">Guide</a>
        </li>
        <li class="navbar__item">
            <a href="register.php" id="register-page">Register</a>
        </li>
        <li class="navbar__btn">
            <a href="login.php" id="login-page">Login</a>
        </li>
    </ul>
</div>
</nav>
<div class="home-container">
    <div class="header-container">
        <div class="header-left">
            <h3 class="welcome-subheading">NBC NO. 461 PORTFOLIO  
OPTIMIZATION DATABASE  
MANAGEMENT SYSTEM</h3>
            <h1 class="welcome-heading">COLLEGE OF  
ENGINEERING</h1>
        </div>
        <div class="header-right">
            
        </div>
    </div>
    <script src="app.js"></script>
</div>
</body>
</html>

login.php
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>NBC2 iPromote</title>
    <link rel="icon" type="image/png" href="favicon.png">
    <link rel="stylesheet" href="style.css">
    <link rel="stylesheet" href="https://cdn.rawgit.com/mfd/09b70eb47474836f25a21660282ce0fd/raw/e06a670afc2b861ed2ac4a1ef752d062ef6b46b/Gilroy.css">
<style>
```

```

        @media screen and (max-width: 600px){
            .navbar {
                height: 40px;
                font-size: 1.2rem;
                position: sticky !important;
            }
            .navbar__container {
                display: flex;
                justify-content: space-between;
                height:100px;
                z-index: 1;
                width: 100%;
                max-width: 1300px;
                margin: 0 auto;
                padding: 0 ;
            }
            .nbclogo img{
                width: 47px;
                height: 53px;
                top: -8px !important;
                left: 10px !important;
            }
            #navbar__logo {
                font-size: 20px;
                left: 65px !important;
                height: 20px;
            }
            .navbar__menu.active {
                font-size: 1rem;
            }
            #mobile-menu{
                top: 0px;
            }
            body {
                background-image: url(bg1.jpg);
                background-position: center;
                background-size: cover;
                background-repeat: no-repeat;
                background-attachment: fixed;
            }
        }
    </style>
</head>
<body>
    <!-- Navigation Bar Section -->
    <div class="full-page">
        <nav class="navbar">
            <div class="navbar__container">
                <div class="nbclogo">
                    
                </div>
                <a href="#" id="nav-bar__logo" style="position: absolute; left: 100px; top: 10px; font-weight: bold;">NBC2 iPromote</a>
                <div class="nav-bar__toggle" id="mobile-menu">
                    <span class="bar"></span>
                    <span class="bar"></span>
                    <span class="bar"></span>
                </div>
                <ul class="nav-bar__menu">
                    <li class="nav-bar__item">
                        <a href="index.php" id="home-page">Home</a>
                    </li>
                    <li class="nav-bar__item">
                        <a href="about.php" id="about-page">About</a>
                    </li>
                    <li class="nav-bar__item">
                        <a href="howto.php" id="howto-page">Guide</a>
                    </li>
                    <li class="nav-bar__item">
                        <a href="register.php" id="register-page">Register</a>
                    </li>
                    <li class="nav-bar__btn">
                        <a href="login.php" id="login-page">Login</a>
                    </li>
                </ul>
            </div>
        </nav>
        <div class="header-left">
            <h1 class="welcome-heading">Welcome to NBC2 iPromote</h1>
            <hr>
            <h3 class="welcome-subheading">NBC Portal for Technological University of the Philippines-Manila College of Engineering Faculty</h3>
        </div>
        <div class="header-right">
            <div class="container-login">
                <div class="text">Login</div>
                <hr>
                <?php
                    if (isset($_GET["error"])){
                        if ($_GET["error"] == "emptyinput") {
                            echo "<p align='center'>Fill in All Fields!</p>";
                        } else if ($_GET["error"] == "wrongemailorpassword") {
                            echo "<p align='center'>Wrong Email and/or Password!</p>";
                        } else if ($_GET["error"] == "passwordupdated") {
                            echo "<p align='center'>Password Updated!</p>";
                        }
                    }
                </?php>
            </div>
        </div>
    </div>
    <div class="text">Login</div>
    <hr>
    <?php
        if (isset($_GET["error"])){
            if ($_GET["error"] == "emptyinput") {
                echo "<p align='center'>Fill in All Fields!</p>";
            } else if ($_GET["error"] == "wrongemailorpassword") {
                echo "<p align='center'>Wrong Email and/or Password!</p>";
            } else if ($_GET["error"] == "passwordupdated") {
                echo "<p align='center'>Password Updated!</p>";
            }
        }
    </?php>
</div>
</body>
</html>
```

```

        ?>
        <form method="post"
action="Includes/index.inc.php">
        <div class="data">
            <label>Email</label>
            <input type="email"
name="email" required>
        </div>
        <div class="data">
            <label>Password</label>
            <input type="password"
name="password" required>
        </div>
        <div class="forgot-
pass"><a
href="forgotpassword.php">Forgot
Password</a></div>
        <div class="btn">
            <div
class="inner"></div>
            <button id='login-fbutton'
type="submit">Login</button>
        </div>
        <div class='signup-link'><a
href="adminlogin.php">Admin
Login</a></div>
    </form>
</div>
</div>
<script src="app.js"></script>
</body>
</html>

pendingfiles.php
<?php
session_start();
$defaultImg= $_SESSION['profileImg'];
$userdepartment =
$_SESSION["department"];
$status1 = "PENDING (DNW)";
$status2 = "PENDING (NNF)";
include_once 'server.php';
if (isset($_SESSION['username'])) {
    if($_SESSION['username'] ==
'4sight'){
        $sql21 = "SELECT COUNT(*)
FROM userarchive WHERE
(pdf_status='$status1' OR
pdf_status='$status2')";
$result21=mysqli_query($conn,$sql21);
        $rowCount=
mysql_fetch_row($result21)[0];
    } else{
        $sql21 = "SELECT COUNT(*) FROM
userarchive WHERE
department='$userdepartment' AND
(pdf_status='$status1' OR
pdf_status='$status2')";

$result21=mysqli_query($conn,$sql21);
        $rowCount=
mysql_fetch_row($result21)[0];
    }
?>
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible"
content="IE=edge">
<meta name="viewport"
content="width=device-width, initial-
scale=1.0">
<title>NBC2 iPromote</title>
<link rel="icon" type="image/png"
href="favicon.png">
<link rel="stylesheet"
href="https://pro.fontawesome.com/relea
ses/v5.10.0/css/all.css"
integrity="sha384-
AYmEC3Yw5cVb3ZcuHtOA93w35dYT
svhLPVnYs9eStHfGJvOvKxVfELGroG
kvsg+p" crossorigin="anonymous"/>
<link rel="stylesheet" href="style.css">
<link rel="stylesheet"
href="scroll.css">
<script
src="https://ajax.googleapis.com/ajax/lib
s/jquery/2.1.1/jquery.min.js"></script>
<link rel="stylesheet"
href="https://cdn.rawgit.com/mfd/09b70e
b47474836f25a21660282ce0fd/raw/e06a
670afcb2b861ed2ac4a1ef752d062ef6b46
b/Gilroy.css">
<link
href="https://cdn.jsdelivr.net/npm/bootstr
ap@5.1.0/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
KyZXEAg3QhqLMpG8r+8fAXLRk2vv
oC2f3B09zVXn8CA5QIVfZOJ3BCsw2P
Op/We" crossorigin="anonymous">
<style>
    .users-tab {
        overflow-y: scroll;
        height:300px;
        border: 2px #6e1919 solid;
    }
    #editTrain {
        margin-top: 10px;
    }
    .buttonedit{
        float: right;
    }
    .users-div1 {
        overflow-y: scroll;
        height:300px;
        border: 2px #6e1919 solid;
    }
    #coe-dept2 {
        background-color: transparent;
        color: #6e1919;
        border: none;
        font-weight: normal;
        width: auto;
    }
    .txtField {
        background-color: transparent;
        color: #6e1919;
        border: none;
        font-weight: normal;
        width: auto;
    }
    table {
        border-collapse: collapse;
        border-spacing: 0;
        width: 100%;
    }
    th {
        text-align: left;
        padding: 8px;
        color: #6e1919;
        font-weight: bold;
        font-size: 15px;
    }
    td {
        text-align: left;
        padding: 8px;
        color: #6e1919;
        font-weight: normal;
        font-size: 15px;
    }
    tr:nth-child(even){background-
color: #f0e6da}
    .data2 {
        margin-bottom: 5px;
    }
    .btn3{
        margin-top: 10px;
    }
    .data2 label{
        font-size: 15px;
        color:#6e1919;
    }
    .data2 input{
        height: 30px;
        width: 100%;
        padding-left: 10px;
        font-size: 15px;
        border: 1px solid #6e1919;
        color: #976c62;
    }
    .modal1 {
        position: fixed;
        top:0%;
        left: 0;
        z-index: 1055;
        display: none;
        width: 100%;
        height: 100%;
        overflow-x: hidden;
        overflow-y: auto;
        outline: 0;
        background-color:   rgb(0,0,0); /* Fallback color */
        background-color: rgba(0,0,0,0.4); /* Black w/ opacity */
        -webkit-animation-name: fadeIn; /* Fade in the background */
        -webkit-animation-duration: 0.4s;
        animation-name: fadeIn;
        animation-duration: 0.4s
    }
    .container2ii {
        width: 100%;
        background-color: white;
        display: flex;
        flex-direction:row;
        flex-wrap:wrap;
        justify-content: center;
        align-items: flex-start;
        margin-left: 10px;
    }
    .profile-container {
        display: flex;
        justify-content: center;
        align-items: center;
        align-content: flex-start;
    }

```

```

margin: 0px 25px;
}
.iframe-container {
  max-width: 1000px;
}
#decline {
  float: left;
}
#update {
  float: right;
}
.profile-settings{
  max-width: 300px;
}
#account-header h3{
  font-weight: bold;
  color:#6e1919;
}
.data1 {
  margin-bottom: 5px;
}
.data1 label{
  font-size: 15px;
  color:#6e1919;
}
.btn6{
  background-color: black !important;
  color: #f0e6da;
  padding: 5px;
  border: none;
  margin-bottom: 5px;
}
.data1 input{
  height: 35px;
  width: 300px;
  padding-left: 10px;
  font-size: 15px;
  border: 1px solid #6e1919;
  color: #976c62;
}
.modal-header {
  padding: 2px 16px;
  background-color: #6d1919;
}
.close1{
  color: white !important;
  font-size: 1.5rem !important;
  float: right !important;
}
.close1:hover,
.close1:focus {
  color: #000 !important;
  text-decoration: none;
  cursor: pointer;
}
/* Modal Body */
.modal-body1 {
  padding: 16px 16px;
}
/* Modal Content */
.modal-content1 {
  top: 12%;
  position: relative;
  background-color: #fefefe;
  margin: auto;
  padding: 0;
  width: 90%;
  box-shadow: 0 4px 8px 0
    rgba(0,0,0,0.2),0 6px 20px 0
    rgba(0,0,0,0.19);
}
.animation-name: animatetop;
animation-duration: 0.4s
}
iframe {
  display: block;
  width: 700px;
  height: 70vh;
  max-width: 700px;
  margin: 0;
  padding: 0;
  border: 0 none;
  box-sizing: border-box;
}
/* Add Animation */
@keyframes animatetop {
  from {top: -300px; opacity: 0}
  to {top: 0; opacity: 1}
}
@-webkit-keyframes fadeIn {
  from {opacity: 0}
  to {opacity: 1}
}
@keyframes fadeIn {
  from {opacity: 0}
  to {opacity: 1}
}
.modal3 {
  position: fixed;
  top:0%;
  left: 0;
  z-index: 1055;
  display: none;
  width: 100%;
  height: 100%;
  overflow-x: hidden;
  overflow-y: auto;
  outline: 0;
  background-color:  rgb(0,0,0); /* Fallback color */
  background-color:  rgba(0,0,0,0.4); /* Black w/ opacity */
}
-webkit-animation-name: fadeIn; /* Fade in the background */
-webkit-animation-duration: 0.4s;
animation-name: fadeIn;
animation-duration: 0.4s
}
.modal-header3 {
  padding: 2px 16px;
  background-color: #6d1919;
  height: 40px;
}
/* Modal Body */
.modal-body3 {
  padding: 16px 16px;
}
/* Modal Content */
.modal-content3 {
  top: 15%;
  position: relative;
  background-color: #fefefe;
  margin: auto;
  padding: 0;
  width: 30%;
  height: 300px;
  box-shadow: 0 4px 8px 0
    rgba(0,0,0,0.2),0 6px 20px 0
    rgba(0,0,0,0.19);
}
.animation-name: animatetop;
animation-duration: 0.4s
}
.btn4 {
  background-color: transparent;
  color: #976c62;
  border: none;
  font-size: 70px;
  margin: 0px 0px;
  text-align: center;
  margin: auto;
  width: 100%;
}
#btn5{
background-color: #d3d3d3 !important;
color: #6d1919;
padding: 5px;
border: none;
margin-bottom: 5px;
}
.file-upload {
  margin-bottom: 10px;
}
.file-upload p{
  color: #976c62;
  text-align: center;
  font-size: 15px;
}
::-webkit-scrollbar {
  width: 10px;
}
::-webkit-scrollbar-track {
  background: #ffff;
}
::-webkit-scrollbar-thumb {
  background: #6e1919;
}
::-webkit-scrollbar-thumb:hover {
  background: #555;
}
#coldepartment1 {
  font-size: 15px;
  color:#6e1919;
}
.coe-dept1 {
  height: 30px;
  width: 100%;
  padding-left: 10px;
  font-size: 15px;
  border: 1px solid #6e1919;
  color: #976c62;
}
</style>
<style>
/*ADJUSTMENTS IN THE NAVBAR*/
@media screen and (max-width: 600px){
  .navbar {
    height: 40px;
    font-size: 1.2rem;
    position: sticky !important;
  }
  .navbar__container {
    display: flex;
    justify-content: space-between;
    height:100px;
    z-index: 1;
    width: 100%;
    max-width: 1300px;
    margin: 0 auto;
    padding: 0 ;
  }
}

```

```

        }
        .nbclogo img{
            width: 47px;
            height: 53px;
            top: -8px !important;
            left: 10px !important;
        }
        #navbar__logo {
            font-size: 20px;
            left: 65px !important;
            height: 20px;
        }
        .navbar__menu.active {
            font-size: 1rem;
        }
        #mobile-menu{
            top: 0px;
        }
        body {
            background-image:
url(bg1.jpg);
            background-position: center;
            background-size: cover;
            background-repeat: no-repeat;
            background-attachment: fixed;
        }
        /* ADJUSTMENTS FOR
CONTAINER 1 TO DISAPPEAR */
        @media screen and (max-width:
600px){
            body{
                background-image: none;
            }
            #container1{
                display: none;
            }
            #container2Inside i{
                font-size: 80px;
            }
            #container2InsideHeading{
                width: 73%;
                height: 100%;
                justify-content: center;
                font-size: 12px;
            }
            .h2,h2{
                font-size: 25px;
            }
        }
        /* NEW - NAVBAR MENU */
        .navbar__links {
            text-align: center;
            padding: 0.5rem;
            width: 100%;
            display: table;
        }
        .linkk-item{
            display: none;
        }
        .linkk-item{
            padding: 5px 20px;
        }
        .navbar__item {
            height: 53px;
        }
        @media screen and (max-width:
600px){
            .linkk-item{
                display: unset !important;
            }
        }
        .linkk-item{
            display: none;
        }
        .linkk-item{
            padding: 5px 20px;
        }
        .navbar__item {
            height: 53px;
        }
        /* ADJUSTMENTS PER PAGE */
        @media screen and (max-width:
600px){
            #import-header h1{
                font-size:30px;
            }
            #navbar__logo{
                top: 10px !important;
            }
            #notification{
                margin-top: -34px !important;
            }
        }
        </style>
    </head>
    <body>
        <!-- Navigation Bar Section -->
        <div class="full-page">
            <nav class="navbar">
                <div class="navbar__container">
                    <div class="nbclogo">
                        
                    </div>
                    <a href="#home"
id="navbar__logo"
style="position:absolute; left:100px;
top:5px">NBC2 iPromote</a>
                    <div class="navbar__toggle"
id="mobile-menu">
                        <span class="bar"></span>
                        <span class="bar"></span>
                        <span class="bar"></span>
                    </div>
                    <ul class="navbar__menu">
                        <li class="navbar__item">
                            <a href="adminprofilesetting.php"
class="navbar__links" id="profile-
page"><img src=<?php echo
$defaultImg; ?> class="profile-img"
style="width: 40px; height: 40px; border-
radius: 50%;"><span style="margin-right:
15px">Profile</a>
                            </li>
                            <li class="navbar__item">
                                <a href="adminhelp.php"
class="navbar__links" id="admin-page"
style="padding: 11px
!important;">FAQs</a>
                            </li>
                            <li class="linkk-item" >
                                <a href="adminprofile.php"
class="navbar__links" id="adminprofile"
>Home</a>
                            </li>
                            <li class="linkk-item" >
                                <a href="Training.php"
class="navbar__links" id="TrainingView"
>Training View</a>
                            </li>
                            <li class="linkk-item" >
                                <a href="Users.php"
class="navbar__links" id="UsersView"
>Users View</a>
                            </li>
                        </ul>
                    </div>
                </div>
            </nav>
            <div id="containerProfile">
                <div id="container1">
                    <div id="containerLogo">
                        
                    </div>
                    <ul class="links">
                        <li class="link-item">
                            <a href="adminprofile.php"
id="adminprofile">Home</a>
                        </li>
                        <li class="link-item">
                            <a href="Training.php"
id="TrainingView">Training View</a>
                        </li>
                        <li class="link-item">
                            <a href="Users.php"
id="UsersView">Users View</a>
                        </li>
                        <li class="link-item" style="background-color: #6d1919">
                            <a href="pendingfiles.php" id="UsersView"
style="color:#f0e6da">Pending Files</a>
                            <span id="notification"
style="float: right; background-
color:#f0e6da; border-radius: 5px;
color:#6d1919; padding: 5px 10px 8px
10px; font-size: 12px; margin-top:
0px;"><?php echo $rowCount; ?></span>
                        </li>
                    </ul>
                </div>
            </div>
        </div>
    </body>

```



```

        </script>;
    })
?>
<div class="container2ii">
    <div class="profile-container">
>
    <div class="profile-settings">
        <div id="account-header" style="text-align: center">
            <h3>View and Edit</h3>
        </div>
        <form method="POST" action="Includes/pending.inc.php">
            <hr>
            <div class="infos">
                <p style="color: #6d1919; font-size: 17px; margin-bottom:3px;">Faculty Name: <span style="color: #91645a; font-size: 17px; margin-bottom:3px;"><?php echo $facultyname; ?></span></p>
                <p style="color: #6d1919; font-size: 17px;">Status: <span style="color: #91645a; font-size: 17px;"><?php echo $pdfstatus; ?></span></p>
            </div>
            <div class="data1">
                <input type="text" value=<?php echo $useremail ?>" name="email" hidden disable>
                <input type="text" value=<?php echo $path ?>" name="path" hidden disable>
                <label>Main Category</label><br>
                <select class="co-dept1" id="category" name="category" required>
                    <option value="" selected disable hidden>Select Main Category</option>
                    <option value="1">Education Qualification</option>
                    <option value="2">Experience and Length of Service</option>
                    <option value="3">Professional Development Achievement and Honors</option>
                </select>
            </div>
            <div class="data1">
                <label>Subcategory</label><br>
                <select class="co-dept1" id="subcategory" name="subcategory" required>
                    <option>
                </select>
            </div>
            <div class="data1">
                <label>Points</label><br>
                <input type="number" step="0.00001" name="points" required>
            </div>
            <div class="btn3">
                <div
class="inner"></div>
                <button id='update' type="submit" name="update" class="btn1">Update</button>
            </div>
        </form>
    </div>
    <div class="profile-container">
        <div class="iframe-container">
            <iframe src="uploads/<?php echo $path; ?>" type="application/pdf" width="100%" height="100%"></iframe>
        </div>
    </div>
</div>
<script>
    var modal = document.getElementById("myModal1");
    var btn = document.getElementById("viewedit");
    var span = document.getElementsByClassName("close1")[0];
    btn.onclick = function() {
        modal.style.display = "block";
    }
    span.onclick = function() {
        modal.style.display = "none";
    }
    window.onclick = function(event) {
        if (event.target == modal) {
            modal.style.display = "none";
        }
    }
</script>
<script>
    var modal3 = document.getElementById("myModal3");
    var btn3 = document.getElementById("conf-del");
    var span3 = document.getElementsByClassName("close3")[0];
    btn3.onclick = function() {
        modal3.style.display = "block";
    }
    span3.onclick = function() {
        modal3.style.display = "none";
    }
    window.onclick = function(event) {
        if (event.target == modal3) {
            modal3.style.display = "none";
        }
    }
</script>
<script>
    const realFileBtn = document.getElementById("decl");
    const customBtn = document.getElementById("conf");
    customBtn.addEventListener("click", function() {
        realFileBtn.click();
    });
</script>
<script src="app.js"></script>
<script src="dynamic.js"></script>
<script>
    $("#notification").filter(function(){
        return $(this).text().trim() === "0";
    }).hide();
</script>
</body>
</html>
<?php
} else{
    header("location: index.php?error=notloggedin");
    exit();
}
?>

profile.php
<?php
session_start();
$name = $_SESSION["userfirstname"];
$userdepartment = $_SESSION["userdepartment"];
$lastname = $_SESSION["userlastname"];
if (isset($_SESSION['useremail'])) {
    include_once 'server.php';
    $useremail = $_SESSION['useremail'];
    $sql = "SELECT * FROM users WHERE email=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: userprofile.php?error=stmtfailed");
        exit();
    } else {
        mysqli_stmt_bind_param($stmt, "s", $useremail);
        mysqli_stmt_execute($stmt);
        $sqlImg = "SELECT * FROM userprofileimg WHERE userEmail=?;";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt, $sqlImg)) {
            header("location: userprofile.php?error=stmtfailed");
            exit();
        } else {
            mysqli_stmt_bind_param($stmt, "s", $useremail);
            mysqli_stmt_execute($stmt);
            $resultImg = mysqli_stmt_get_result($stmt);
            $resultFetch = mysqli_fetch_assoc($resultImg);
            if ($resultFetch['status'] == 0){
                $lastname = $_SESSION["userlastname"];
                $defaultImg = "profileimage/profile".$name.$lastname.".jpg?".mt_rand();
            }
        }
    }
}
?>
```

```
$SESSION['profileImg'] = $defaultImg;
} else {
    $defaultImg = "profileimage/defaultimage.jpg";
    $SESSION['profileImg'] = $defaultImg;
}
}
} else{
    header("location: index.php?error=notloggedin");
    exit();
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1.0">
        <title>NBC2 iPromote</title>
        <link rel="icon" type="image/png" href="favicon.png">
        <link rel="stylesheet" href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css" integrity="sha384-AYmEC3Yw5cVb3ZcuHtOA93w35dYT svhLPVnYs9eStHfGjVovKxVfELGroG kvsg+p" crossorigin="anonymous"/>
        <link rel="stylesheet" href="style.css">
        <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KyZXEAg3QPhqLMPG8+8fhAXLRk2vv oC2f3B09zVXn8CA5QIVfZOJ3BCsw2P 0p/We" crossorigin="anonymous">
        <link rel="stylesheet" href="https://cdn.rawgit.com/mfd/09b70e b47474836f25a21660282ce0fd/raw/e06a 670afcb2b861ed2ac4a1ef752d062ef6b46 b/Gilroy.css">
        <style>
.link-item{
    padding: 5px 20px;
}
.link-item a{
    color: #6e1919;
    text-decoration-line: none;
    font-weight: bold;
    font-size: 20px;
}
.link-item a:hover {
    color: #f0e6da !important;
    cursor: pointer;
}
.link-item:hover {
    background-color: #6e1919;
    color: #f0e6da !important;
    transition: all 0.3s ease;
}
$SESSION['profileImg'] = $defaultImg;
} else {
    $defaultImg = "profileimage/defaultimage.jpg";
    $SESSION['profileImg'] = $defaultImg;
}
}
} else{
    header("location: index.php?error=notloggedin");
    exit();
}
?>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>NBC2 iPromote</title>
<link rel="icon" type="image/png" href="favicon.png">
<link rel="stylesheet" href="style.css">
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KyZXEAg3QPhqLMPG8+8fhAXLRk2vv oC2f3B09zVXn8CA5QIVfZOJ3BCsw2P 0p/We" crossorigin="anonymous">
<link href="https://cdn.rawgit.com/mfd/09b70e b47474836f25a21660282ce0fd/raw/e06a 670afcb2b861ed2ac4a1ef752d062ef6b46 b/Gilroy.css">
<style>
.navbar {
    height: 40px;
    font-size: 1.2rem;
    position: sticky !important;
}
.navbar__container {
    display: flex;
    justify-content: space-between;
    height: 100px;
    z-index: 1;
}
#navbar__logo {
    width: 100px;
    margin: 0 auto;
    padding: 0;
}
#navblogo img {
    width: 47px;
    height: 53px;
    top: -8px !important;
    left: 10px !important;
}
#navbar__logo {
    font-size: 20px;
    left: 65px !important;
    height: 20px;
}
.navbar__menu.active {
    font-size: 1rem;
}
#mobile-menu {
    top: 0px;
}
body {
    background-image: url(bg1.jpg);
    background-position: center;
    background-size: cover;
    background-repeat: no-repeat;
    background-attachment: fixed;
}
/* ADJUSTMENTS FOR CONTAINER 1 TO DISAPPEAR */
@media screen and (max-width: 600px){
    body {
        background-image: none;
    }
    #container1 {
        display: none;
    }
    #container2Inside1 {
        font-size: 80px;
        padding-right: 5px;
    }
    #container2InsideHeading {
        padding-left: 10px;
        width: 71%;
        height: 100%;
        justify-content: center;
        font-size: 12px;
    }
    .h2,h2 {
        font-size: 25px;
    }
}
/* NEW - NAVBAR MENU */
.navbar__links {
    text-align: center;
    padding: 0.5rem;
    width: 100%;
    display: table;
}
.linkk-item{
    display: none;
}
.linkk-item{
    padding: 5px 20px;
}
.navbar__item {
```

```

        height: 53px;
    }
    @media screen and (max-width: 600px){
        .linkk-item{
            display: unset !important;
        }
    /* ADJUSTMENTS PER PAGE */
    #help-page{
        padding: 0.75rem;
    }
    @media screen and (max-width: 600px){
        #import-header h1{
            font-size:30px;
        }
        #navbar__logo{
            top: 10px !important;
        }
    }
    </style>
</head>
<body onload="initClock()">
    <!-- Navigation Bar Section -->
    <div class="full-page">
        <nav class="navbar">
            <div class="navbar__container">
                <div class="nbclogo">
                    
                </div>
                <a href="#home" id="navbar__logo" style="position: absolute; left:100px; top:5px">NBC2 iPromote</a>
                <div class="navbar__toggle" id="mobile-menu">
                    <span class="bar"></span>
                    <span class="bar"></span>
                    <span class="bar"></span>
                </div>
                <ul class="navbar__menu">
                    <li class="navbar__item">
                        <a href="userprofile.php" class="navbar__links" id="profile-page"><img src=<?php echo $defaultImg; ?>" class="profile-img" style="width: 40px; height: 40px; border-radius: 50%;"><span style="margin-right: 15px">Profile</span></a>
                    </li>
                    <li class="navbar__item">
                        <a href="help.php" class="navbar__links" id="help-page" style="padding: 11px !important;">FAQs</a>
                    </li>
                    <li class="linkk-item">
                        <a href="profile.php" class="navbar__links" id="profile">Home</a>
                    </li>
                    <li class="linkk-item">
                        <a href="Import.php" class="navbar__links" id="importPdf">Import PDF</a>
                    </li>
                
```

```

<li class="linkk-item">
    <a href="ECV.php" class="navbar__links" id="employeeCredItView">Employee Credit View</a>
</li>
<li class="linkk-item">
    <a href="filesarchive.php" class="navbar__links" id="logoutBtn">Files Archive</a>
</li>
<li class="linkk-item">
    <a href="audit.php" class="navbar__links" id="logoutBtn">Audit</a>
</li>
<li class="linkk-item">
    <a href="Includes/logout.inc.php" class="navbar__links" id="logoutBtn">Logout</a>
</li>
</ul>
</div>
</nav>
<div id="containerProfile">
    <div id="container1">
        <div id="containerLogo">
            
        </div>
        <ul class="links">
            <li class="link-item" style="background-color: #6d1919">
                <a href="profile.php" id="profile" style="color:#f0e6da">Home</a>
            </li>
            <li class="link-item">
                <a href="Import.php" id="importPdf">Import PDF</a>
            </li>
            <li class="link-item">
                <a href="ECV.php" id="employeeCreditView">Employee Credit View</a>
            </li>
            <li class="link-item">
                <a href="filesarchive.php" id="logoutBtn">Files Archive</a>
            </li>
            <li class="link-item">
                <a href="audit.php" id="logoutBtn">Audit</a>
            </li>
            <li class="link-item">
                <a href="Includes/logout.inc.php" id="logoutBtn">Logout</a>
            </li>
        </ul>
        <div id="container2">
            <div id="container2Inside" style="margin-bottom:50px;">
                <i class="fas fa-user-alt"></i>
            </div>
            <div id="container2InsideHeading">
                <div>
                    <?php if(isset($_SESSION['userfirstname'])) : ?>
                    <h2 style="font-weight: bolder; margin-bottom: 0px; font-family: 'Gilroy';">Welcome, <?php echo $_SESSION['userfirstname']; ?></h2>
                    <div>
                        <?php endif ?>
                        <div class="datetime">
                            <div class="date">
                                <span id="today">Today </span>
                            <span id="dayname">Day </span>
                            <span id="month">Month </span>
                            <span id="daynum">00 </span>
                            <span id="year">Year </span>
                        </div>
                        <div class="time">
                            <span id="hour">00 </span>
                            <span id="minutes">00 </span>
                            <span id="seconds">00 </span>
                            <span id="period">AM </span>
                        </div>
                    </div>
                    <div class="tech_eval">
                        <p><i class="fas fa-bell"></i> After operating the capabilities of the system, kindly evaluate its features by answering the <a type="button" href="https://forms.gle/dKtzk1eY77Wi49" target="_blank" rel="noopener noreferrer">technical evaluation form</a>.</p>
                    </div>
                </div>
            </div>
        </div>
        <script type="text/javascript">
            function updateClock(){
                var now = new Date();
                var dname = now.getDay(), mo = now.getMonth(), dnum = now.getDate(), yr = now.getFullYear(), hou = now.getHours(), min = now.getMinutes(), sec = now.getSeconds(), pe = "AM";
                if(hou >= 12){
                    pe = "PM";
                }
                if(hou == 0){
                    hou = 12;
                }
                if(hou > 12){
                    hou = hou - 12;
                }
                Number.prototype.pad = function(digits){

```

```

for(var n = this.toString();
n.length < digits; n = 0 + n);
    return n;
}
var months = ["January",
"February", "March", "April", "May",
"June", "July", "August", "September",
"October", "November", "December"];
var week = ["Sunday",
"Monday", "Tuesday", "Wednesday",
"Thursday", "Friday", "Saturday"];
var ids = ["dayname", "month",
"daynum", "year", "hour", "minutes",
"seconds", "period"];
var values = [week[dname],
months[mo], dnum.pad(2), yr, hou.pad(2),
min.pad(2), sec.pad(2), pe];
for(var i = 0; i < ids.length; i++)
document.getElementById(ids[i]).firstCh
ild.nodeValue = values[i];
}

function initClock(){
updateClock();
window.setInterval("updateClock()", 1);
}
</script>
<script src="app.js"></script>
</body>
</html>

```

register.php

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>NBC2 iPromote</title>
    <link rel="icon" type="image/png" href="favicon.png">
    <link rel="stylesheet" href="style.css">
    <link rel="stylesheet" href="https://cdn.rawgit.com/mfd/09b70e b47474836f25a21660282ce0fd/raw/e06a 670afc2b861ed2ac4a1ef752d062ef6b46 b/Gilroy.css">
<style>
    ::placeholder{
        color: #91645a;
        opacity: 0.5;
        font-size: 13px;
    }
    ::-ms-input-placeholder{
        color: #91645a;
        opacity: 0.5;
    }
    #points{
        display: inline-block;
        width: 100%;
    }
    #points input{
        width: 31.3333%;
        padding-left: 5px !important;
        height: 30px;
    }
    #points1 input{
```

```
width: 23%;  
padding-left: 5px !important;  
height: 30px;  
}  
#points1 {  
    margin-bottom: 0px;  
}  
.data1 {  
    height: 30px;  
}  
#ifYes {  
    height: 100%;  
}  
}  
@media screen and (max-width:  
600px){  
.navbar {  
    height: 40px;  
    font-size: 1.2rem;  
    position: sticky !important;  
}  
.navbar__container {  
    display: flex;  
    justify-content: space-between;  
    height: 100px;  
    z-index: 1;  
    width: 100%;  
    max-width: 1300px;  
    margin: 0 auto;  
    padding: 0 ;  
}  
.nbclogo img {  
    width: 47px;  
    height: 53px;  
    top: -8px !important;  
    left: 10px !important;  
}  
#navbar__logo {  
    font-size: 20px;  
    left: 65px !important;  
    height: 20px;  
}  
.navbar__menu.active {  
    font-size: 1rem;  
}  
#mobile-menu {  
    top: 0px;  
}  
body {  
    background-image:  
url(bg1.jpg);  
    background-position: center;  
    background-size: cover;  
    background-repeat: no-repeat;  
    background-attachment: fixed;  
}  
}  
</style>  
</head>  
<body>  
    <!-- Navigation Bar Section -->  
    <div class="full-page">  
        <nav class="navbar">  
            <div class="nbclogo__container">  
                <div class="nbclogo">  
                      
                </div>  
                <div class="navbar__links" id="mobile-menu">  
                    <a href="#home" id="home-page">Home</a>  
                    <a href="#" id="about-page">About</a>  
                    <a href="#" id="howto-page">Guide</a>  
                    <a href="#" id="register-page">Register</a>  
                    <a href="#" id="login-page">Login</a>  
                </div>  
            </div>  
        </nav>  
        <div class="header-container">  
            <div class="header-left">  
                <h1 class="welcome-heading">Welcome to NBC2 iPromote</h1>  
                <hr>  
                <h3 class="welcome-subheading">NBC Portal for Technological University of the Philippines-Manila College of Engineering Faculty</h3>  
            </div>  
            <div class="header-right">  
                <div class="container-login">  
                    <div class="text">Register</div>  
                    <hr>  
                    <?php  
                        if (isset($_GET["error"])) {  
                            if ($_GET["error"] == "emptyinput") {  
                                echo "<p align='center'><font color=#e61919>Fill in All Fields!</font></p>";  
                            }  
                            else if ($_GET["error"] == "emailalreadyexists") {  
                                echo "<p align='center'><font color=#e61919>Email already exists</font></p>";  
                            }  
                        }  
                    </div>  
                </div>  
            </div>  
        </div>  
    </div>  
</body>
```

```

echo      "<p
align='center'><font
color=#6e1919>Email    is    already
taken!</font></p>";
}
else if ($_GET["error"]
== "pseudocodealreadyused") {
echo      "<p
align='center'><font
color=#6e1919>Pseudocode is already
used!</font></p>";
}
else if ($_GET["error"]
== "pseudodenotfound") {
echo      "<p
align='center'><font
color:#6e1919>Pseudocode is not found
on database!</font></p>";
}
else if ($_GET["error"]
== "incorrectpseudocode") {
echo      "<p
align='center'><font
color:#6e1919>Incorrect
Pseudocode!</font></p>";
}
else if ($_GET["error"]
== "cat3pointerror") {
echo      "<p
align='center'><font color=#6e1919>The
points for Category 3 and its subcategories
do not match!</font></p>";
}
else if ($_GET["error"]
== "stmtfailed") {
echo      "<p
align='center'><font
color:#6e1919>Something went wrong,
try again!</font></p>";
}
else if ($_GET["error"]
== "none") {
echo      "<p
align='center'><font
color:#6e1919>Register
complete!</font></p>";
}
?>
<form      method="POST"
action="Includes/register.inc.php">
<div class="data">
<div      class="data1"
style="width: 45%; float: left">
<label>First
Name</label>
<input      type="text"
name="firstname" required>
</div>
<div      class="data1"
style="width: 45%; float: right">
<label>Last
Name</label>
<input      type="text"
name="lastname" required>
</div>
</div>
<div class="data">
<label>Email</label>
<input      type="email"
name="email" required>
</div>
<div      class="data"
id="ifYes" style="display: none; margin-
bottom: 0px;">
<label>Password</label>
<input type="password"
name="password" required>
</div>
<div      class="data">
<label>Pseudocode</label>
<input      type="text"
name="pseudocode" required>
</div>
<div class="data">
<label id="colepartment">Department</label>
<select      id="coe-dept"
name="department" style = "margin-top:
0px !important;" required>
<option value="Electronics      Engineering
Department">Electronics      Engineering
Department</option>
<option value="Civil      Engineering
Department">Civil      Engineering
Department</option>
<option value="Electrical      Engineering
Department">Electrical      Engineering
Department</option>
<option value="Mechanical      Engineering
Department">Mechanical      Engineering
Department</option>
<option value="Faculty Candidate Type for
8th Cycle" id="candtype" name="candtype"
style = "margin-top: 0px !important;" required>
<select onchange="yesnoCheck(this)" id="coe-
dept" class="candtype" name="candtype"
style = "margin-top: 0px !important;">
<option      id="new"
value="new">New (No Previous
Points)</option>
<option      id="old"
value="old">Existing (With Previous
Points)</option>
</select>
<!-- <label>Points
Accumulated      from      Previous
Cycle</label> -->
<div id="points">
<input type="number"
min="0" max="85" step = ".01"
name="cat1" placeholder = "Category 1"
style= "margin-right: 3px !important;">
<input type="number"
min="0" max="25" step = ".01"
name="cat2" placeholder = "Category 2"
style= "margin-right: 3px !important;">
<input type="number"
min="0" max="90" step = ".01"
name="cat3" placeholder = "Category 3"
style= "margin-right: 0px !important;">
</div>
<label>Category      3
Points </label>
<div id="points1"
style="margin-bottom: 5px;">
<input type="number"
min="0" max="30" step = ".01"
name="cat31" placeholder = "3.1" style=
"margin-right: 3px !important;">
<input type="number"
min="0" max="30" step = ".01"
name="cat32" placeholder = "3.2" style=
"margin-right: 3px !important;">
<input type="number"
min="0" max="10" step = ".01"
name="cat321" placeholder = "3.2.1"
style= "margin-right: 0px !important;">
<input type="number"
min="0" max="20" step = ".01"
name="cat322" placeholder = "3.2.2"
style= "margin-right: 3px !important;">
</div>
<div id="points1">
<input type="number"
min="0" max="10" step = ".01"
name="cat33" placeholder = "3.3" style=
"margin-right: 3px !important;">
<input type="number"
min="0" max="100" step = ".01"
name="cat34" placeholder = "3.4" style=
"margin-right: 3px !important;">
</div>
<div id="points1">
<input type="number"
min="0" max="5" step = ".01"
name="cat35" placeholder = "3.5" style=
"margin-right: 0px !important;">
<input type="number"
min="0" max="10" step = ".01"
name="cat36" placeholder = "3.6" style=
"margin-right: 0px !important;">
</div>
</div>
<div class="btn">
<div class="inner"></div>

```

```

        <button id='register-fbutton' type="submit" name="submit">Register</button>
    </div>
    </form>
</div>
</div>
</div>
</div>
</script>
    function yesnoCheck(that) {
        if (that.value == "old") {
            document.getElementById("ifYes").style.display = "block";
        } else {
            document.getElementById("ifYes").style.display = "none";
        }
    }
</script>
<script src="app.js"></script>
</body>
</html>

searchpage.php
<?php
session_start();
$defaultImg= $_SESSION['profileImg'];
include_once 'server.php';
$department = $_SESSION['department'];
$status1 = "PENDING (DNWC)";
$status2 = "PENDING (NNF)";
$search1= $_SESSION['input'];
if($_SESSION['username'] == '4sight'){
    $sql = "SELECT * FROM users WHERE firstname=? OR lastname=? OR email=? OR department=? OR pseudocode=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql))
    {
        header("location: ./Users.php?error=stmtfailed5");
        exit();
    } else {
        mysqli_stmt_bind_param($stmt, "sssss", $search1, $search1, $search1, $search1);
        mysqli_stmt_execute($stmt);
        $result = mysqli_stmt_get_result($stmt);
        $queryResult1 = mysqli_num_rows($result);
    }
} else {
    $sql = "SELECT * FROM users WHERE department=? AND (firstname=? OR lastname=? OR email=? OR department=? OR pseudocode=?);";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: ./Users.php?error=stmtfailed5");
        exit();
    } else {
        mysqli_stmt_bind_param($stmt, "sssss", $department, $search1, $search1,

```

\$search1, \$search1, \$search1);  
 mysqli\_stmt\_execute(\$stmt);  
 \$result = mysqli\_stmt\_get\_result(\$stmt);  
 \$queryResult1 = mysqli\_num\_rows(\$result);  
}  
} if(\$\_SESSION['username'] == '4sight') {  
 \$sql21 = "SELECT COUNT(\*) FROM userarchive WHERE (pdf\_status='\$status1' OR pdf\_status='\$status2')";  
\$result21=mysqli\_query(\$conn,\$sql21);  
\$rowCount= mysqli\_fetch\_row(\$result21)[0];  
} else{  
 \$sql21 = "SELECT COUNT(\*) FROM userarchive WHERE department='\$userdepartment' AND (pdf\_status='\$status1' OR pdf\_status='\$status2')";  
\$result21=mysqli\_query(\$conn,\$sql21);  
\$rowCount= mysqli\_fetch\_row(\$result21)[0];  
}  
?>  
<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <meta http-equiv="X-UA-Compatible" content="IE=edge">  
 <meta name="viewport" content="width=device-width, initial-scale=1.0">  
 <title>NBC2 iPromote</title>  
 <link rel="icon" type="image/png" href="favicon.png">  
 <link rel="stylesheet" href="https://pro.fontawesone.com/releases/v5.10.0/css/all.css" integrity="sha384-AYmEC3Yw5cVb3ZcuHtOA93w35dYTsvhLPVnYs9eStHfGJvOvKxVfELGroGkvsg+p" crossorigin="anonymous"/>  
 <link rel="stylesheet" href="style.css">  
 <link rel="stylesheet" href="https://cdn.rawgit.com/mfd/09b70eb47474836f25a21660282ce0fd/raw/e06a670afcb2b861ed2ac4a1ef752d062ef6b46b/Gilroy.css">  
 <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KZXEAg3QhqLMpG8r+8fxAXLRk2vv0C2f3B09zVXn8CA5QIVfZOJ3BCsw2P0pWe" crossorigin="anonymous">  
<style>  
.btn2 {  
 background-color: transparent;  
 color: #6e1919;  
 border: none;  
 font-size: 25px;  
 margin: 0px 15px;  
}  
.back {  
 color: #6e1919;  
 text-decoration-line: none;  
 font-weight: bold;  
 font-size: 20px;  
 margin-right: 10px;  
}  
.back:hover {  
 color: #91645a !important;  
 transition: all 0.3s ease;  
}  
.users-table {  
 overflow-y: scroll;  
 height:350px;  
 border: 2px #6e1919 solid;  
}  
table {  
 border-collapse: collapse;  
 border-spacing: 0;  
 width: 100%;  
}  
th {  
 text-align: left;  
 padding: 8px;  
 color: #6e1919;  
 font-weight: bold;  
 font-size: 15px;  
}  
td {  
 text-align: left;  
 padding: 8px;  
 color: #6e1919;  
 font-weight: normal;  
 font-size: 15px;  
}  
tr:nth-child(even){background-color: #f0e6da}  
::webkit-scrollbar {  
 width: 10px;  
}  
::webkit-scrollbar-track {  
 background: #ffff;  
}  
::webkit-scrollbar-thumb {  
 background: #6e1919;  
}  
::webkit-scrollbar-thumb:hover {  
 background: #555;  
}  
.total {  
 font-size: 20px;  
 color: #6e1919;  
}  
.input-search {  
 padding: 6px;  
 margin-bottom: 5px;  
 font-size: 15px;  
 border: #6e1919 2px solid;  
}  
.search {  
 padding: 6px 10px;  
 margin-bottom: 5px;  
 background: #6e1919;  
 font-size: 15px;  
 border: none;  
 cursor: pointer;  
 color: #f0e6da;  
}  
.search:hover {  
 background: #ccc;  
}  
.modal {

```

position: fixed;
top:0%;
left: 0;
z-index: 1055;
display: none;
width: 100%;
height: 100%;
overflow-x: hidden;
overflow-y: auto;
outline: 0;
background-color:    rgb(0,0,0); /* Fallback color */
background-color: rgba(0,0,0,0.4); /* Black w/ opacity */
-webkit-animation-name: fadeIn; /* Fade in the background */
-webkit-animation-duration: 0.4s;
animation-name: fadeIn;
animation-duration: 0.4s
}
.modal-header {
padding: 2px 16px;
background-color: #6d1919;
}
.close{
color: white !important;
font-size: 1.5rem !important;
float: right !important;
}
.close:hover,
.close:focus {
color: #000 !important;
text-decoration: none;
cursor: pointer;
}
/* Modal Body */
.modal-body {
padding: 16px 16px;
}
/* Modal Content */
.modal-content {
top: 15%;
position: relative;
background-color: #fefefe;
margin: auto;
padding: 0;
width: 30%;
box-shadow: 0 4px 8px 0
rgba(0,0,0,0.2),0 6px 20px 0
rgba(0,0,0,0.19);
animation-name: animatetop;
animation-duration: 0.4s
}
/* Add Animation */
@keyframes animatetop {
from {top: -300px; opacity: 0}
to {top: 0; opacity: 1}
}
@-webkit-keyframes fadeIn {
from {opacity: 0}
to {opacity: 1}
}
@keyframes fadeIn {
from {opacity: 0}
to {opacity: 1}
}
#account-header h3{
font-weight: bold;
color:#6e1919;
}
.data1 {
margin-bottom: 5px;
}
.data1 input{
height: 35px;
width: 300px;
padding-left: 10px;
font-size: 15px;
border: 1px solid #6e1919;
color: #976c62;
}
#coldepartment1 {
font-size: 15px;
color:#6e1919;
}
#coe-dept1 {
height: 30px;
width: 100%;
padding-left: 10px;
font-size: 15px;
border: 1px solid #6e1919;
color: #976c62;
}
.data2 {
margin-bottom: 5px;
}
.data2 label{
font-size: 15px;
color:#6e1919;
}
.data2 input{
height: 30px;
width: 100%;
padding-left: 10px;
font-size: 15px;
border: 1px solid #6e1919;
color: #976c62;
}
.final-container {
width: 100%;
padding: 40px;
background-color: white;
border-color: #6d1919;
}
.container2ii {
width: 100%;
padding: 10px 0px;
background-color: white;
border-color: #6d1919;
display: flex;
flex-direction:row;
flex-wrap:wrap;
justify-content: space-between;
align-items: flex-start;
}
.profile-container {
display: flex;
justify-content: center;
align-items: center;
align-content: flex-start;
margin: 0px 25px;
}
.profile-container1 h3 {
font-weight: bold;
color:#6e1919;
}
.profile-photo {
overflow-y: scroll;
height:300px;
width: 250px;
border: 2px #6e1919 solid;
}
.profile-settings{

```

```

max-width: 350px;
}
.btn3 {
  margin-top: 10px;
}
.profile-photo table {
  border-collapse: collapse;
  border-spacing: 0;
  width: 100%;
  border: 1px solid #ddd;
}
.profile-photo th, .profile-photo td {
  text-align: center;
  padding: 10px;
  color: #6e1919;
}
.profile-photo tr:nth-child(even) {
  background-color: #f0e6da;
}
#generate {
  float: left;
}
#send {
  float: right;
}
@media screen and (max-width: 100px){
  .profile-container{
    margin: 8% auto;
  }
  .container2ii {
    flex-direction:column;
    justify-content: space-around;
    align-items: center;
  }
}
</style>
<style>
/*ADJUSTMENTS IN THE NAVBAR*/
  @media screen and (max-width: 600px){
    .navbar {
      height: 40px;
      font-size: 1.2rem;
      position: sticky !important;
    }
    .navbar__container {
      display: flex;
      justify-content: space-between;
      height:100px;
      z-index: 1;
      width: 100%;
      max-width: 1300px;
      margin: 0 auto;
      padding: 0 ;
    }
    .nbclogo img{
      width: 47px;
      height: 53px;
      top: -8px !important;
      left: 10px !important;
    }
    #navbar__logo {
      font-size: 20px;
      left: 65px !important;
      height: 20px;
    }
    .navbar__menu.active {
      font-size: 1rem;
    }
    #mobile-menu{
      top: 0px;
    }
    body {
      background-image: url(bg1.jpg);
      background-position: center;
      background-size: cover;
      background-repeat: no-repeat;
      background-attachment: fixed;
    }
    /* ADJUSTMENTS FOR CONTAINER 1 TO DISAPPEAR */
    @media screen and (max-width: 600px){
      body{
        background-image: none;
      }
      #container1{
        display: none;
      }
      #container2Inside i{
        font-size: 80px;
      }
      #container2InsideHeading{
        width: 73%;
        height: 100%;
        justify-content: center;
        font-size: 12px;
      }
      .h2,h2{
        font-size: 25px;
      }
    }
    /* NEW - NAVBAR MENU */
    .navbar__links {
      text-align: center;
      padding: 0.5rem;
      width: 100%;
      display: table;
    }
    .linkk-item{
      display: none;
    }
    .linkk-item{
      padding: 5px 20px;
    }
    .navbar__item {
      height: 53px;
    }
    @media screen and (max-width: 600px){
      .linkk-item{
        display: unset !important;
      }
    }
    /* ADJUSTMENTS PER PAGE */
    @media screen and (max-width: 600px){
      #import-header h1{
        font-size:30px;
      }
      #navbar__logo{
        top: 10px !important;
      }
      #notification{
        margin-top: -34px !important;
      }
    }
  }
  </style>
  <!-- Navigation Bar Section -->
  <div class="full-page">
    <nav class="navbar">
      <div class="navbar__container">
        <div class="nbclogo">
          
        </div>
        <a href="#home" id="navbar__logo" style="position: absolute; left:100px; top:5px">NBC2 iPromote</a>
        <div class="navbar__toggle" id="mobile-menu">
          <span class="bar"></span>
          <span class="bar"></span>
          <span class="bar"></span>
        </div>
        <ul class="navbar__menu">
          <li class="navbar__item">
            <a href="adminprofilesetting.php" class="navbar__links" id="profile-page"><span style="margin-right: 15px">Profile</span></a>
          </li>
          <li class="navbar__item">
            <a href="adminhelp.php" class="navbar__links" id="admin-page" style="padding: 0 !important;">FAQs</a>
          </li>
          <li class="linkk-item">
            <a href="adminprofile.php" class="navbar__links" id="adminprofile">Home</a>
          </li>
          <li class="linkk-item">
            <a href="Training.php" class="navbar__links" id="TrainingView">Training View</a>
          </li>
          <li class="linkk-item">
            <a href="Users.php" class="navbar__links" id="UsersView">Users View</a>
          </li>
          <li class="linkk-item">
            <a href="pendingfiles.php" class="navbar__links" id="UsersView">Pending Files</a>
            <span id="notification" style="float: right; background-color:#f0e6da; border-radius: 5px; color:#6d1919 ; padding: 5px 10px 8px 10px; font-size: 12px; margin-top: 0px;"><?php echo $rowCount; ?></span>
          </li>
          <li class="linkk-item">
        

```

```

        <a href="validation.php"
    class="navbar__links"
    id="UsersView">Validation</a>
        </li>
        <li class="link-item">
            <a href="Includes/logout-admin.inc.php" class="navbar__links"
    id="logoutBtn">Logout</a>
        </li>
        <?php
        if ($_SESSION['username'] == '4sight'){
            echo
            '<li'
        class="navbar__item">
            <a href="adminpanel.php"
    class="navbar__links" id="profile-page">Admin Panel</a>
            </li>;
        }
    ?>
        </ul>
    </div>
    </nav>
    <div id="containerProfile">
        <div id="container1">
            <div id="containerLogo">
                
            </div>
            <ul class="links">
                <li class="link-item">
                    <a href="adminprofile.php" id="adminprofile">Home</a>
                </li>
                <li class="link-item">
                    <a href="Training.php" id="TrainingView">Training View</a>
                </li>
                <li class="link-item" style="background-color: #6d1919;">
                    <a href="Users.php" id="UsersView" style="color:#f0e6da">Users View</a>
                </li>
                <li class="link-item">
                    <a href="pendingfiles.php" id="UsersView">Pending Files</a>
                    <span id="notification" style="float: right; background-color:#6d1919; border-radius: 5px; color:#f0e6da; padding: 5px 10px 8px 10px; font-size: 12px; margin-top: 0px;"><?php echo $rowCount; ?></span>
                </li>
                <li class="link-item">
                    <a href="validation.php" id="UsersView">Validation</a>
                </li>
                <li class="link-item">
                    <a href="Includes/logout-admin.inc.php" id="logoutBtn">Logout</a>
                </li>
            </ul>
        </div>
        <div id="container2i">
            <div id="import-header">
                <h1>Users View</h1>
                </div>
                <div class="container-files">
                    <div class="users-tab">
                        <div class="users-div">
                            <form action="Includes/users.inc.php" method="post" enctype="multipart/form-data">
                                <div>
                                    <a class="back" name="back" id="back" title="Back to Users View page" href="Users.php"><i class="fas fa-arrow-left"></i></a>
                                    <label class="total" style="margin-right: 15px;">Total: <?php echo $queryResult1; ?></label>
                                    <span style="font-size: 30px; font-weight: 100; color: #6e1919;"></span>
                                    <button type="submit" class="btn2" name="delete" id="delete" title="Delete User"><i class="fas fa-trash-alt"></i></i></button>
                                    <button type="button" class="btn2" name="add" id="addNew" title="Add a New User"><i class="fas fa-user-plus"></i></button>
                                    <input type="text" placeholder="Search.." name="search-input" class="input-search">
                                    <button type="button" name="search" class="search"><i class="fa fa-search"></i></button>
                                    <button type="button" class="btn2" name="send-email" id="send-email" title="Invite to Join"><i class="fas fa-envelope"></i></button>
                                </div>
                                <div class="users-table">
                                    <table>
  <tr>
  <th></th>
  <th>First Name</th>
  <th>Last Name</th>
  <th>Email</th>
  <th>Department</th>
  <th>Pseudocode</th>
  </tr>
  <?php
if(isset($_SESSION['username'])) {
if($_SESSION['username'] == '4sight'){
    $search1= $_SESSION['input'];
}
$sql = "SELECT * FROM users WHERE firstname=? OR lastname=? OR email=? OR department=? OR pseudocode=?;";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt, $sql)) {
    header("location: ../Users.php?error=stmtfailed5");
    exit();
} else {
    mysqli_stmt_bind_param($stmt, "sssss", $department, $search1, $search1, $search1, $search1);
    mysqli_stmt_execute($stmt);
    $result = mysqli_stmt_get_result($stmt);
    $queryResult = mysqli_num_rows($result);
    if ($queryResult > 0) {
        while ($row = mysqli_fetch_assoc($result)) {
            echo '<tr>
                <td><input type="checkbox" name="check[]" value="'.$row['email'].'" style="margin: 0px 10px;"></td>
                <td>'.$row['firstname'].'</td>
                <td>'.$row['lastname'].'</td>
                <td>'.$row['email'].'</td>
                <td>'.$row['department'].'</td>
                <td>'.$row['pseudocode'].'</td>
            </tr>';
        }
    } else {
        header("location: index.php?error=notloggedin");
        exit();
    }
}
} else{
    header("location: index.php?error=notloggedin");
    exit();
}
?>
                            </table>
                        </div>
                    </div>
                </div>
                <?php
if(isset($_SESSION['username'])) {
if($_SESSION['username'] == '4sight'){
    $search1= $_SESSION['input'];
}
$sql = "SELECT * FROM users WHERE firstname=? OR lastname=? OR email=? OR department=? OR pseudocode=?;";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt, $sql)) {
    header("location: ../Users.php?error=stmtfailed5");
    exit();
} else {
    mysqli_stmt_bind_param($stmt, "sssss", $department, $search1, $search1, $search1, $search1);
    mysqli_stmt_execute($stmt);
    $result = mysqli_stmt_get_result($stmt);
    $queryResult = mysqli_num_rows($result);
    if ($queryResult > 0) {
        while ($row = mysqli_fetch_assoc($result)) {
            echo '<tr>
                <td><input type="checkbox" name="check[]" value="'.$row['email'].'" style="margin: 0px 10px;"></td>
                <td>'.$row['firstname'].'</td>
                <td>'.$row['lastname'].'</td>
                <td>'.$row['email'].'</td>
                <td>'.$row['department'].'</td>
                <td>'.$row['pseudocode'].'</td>
            </tr>';
        }
    } else {
        header("location: index.php?error=notloggedin");
        exit();
    }
}
} else{
    header("location: index.php?error=notloggedin");
    exit();
}
?>
            </div>
        </div>
    </div>

```

```

        </div>
        </form>
        </div>
    </div>
<div id="myModal" class="modal">
    <div class="modal-content">
        <div class="modal-header">
            <span>
                <span>&times;</span>
            </span>
        </div>
        <div class="modal-body">
            <form method="POST"
action="Includes/adduser.inc.php">
                <div class="data2">
                    <label>First
Name</label><br>
                    <input type="text"
name="firstname" required>
                </div>
                <div class="data2">
                    <label>Last
Name</label><br>
                    <input type="text"
name="lastname" required>
                </div>
                <div class="data2">
<label>Email</label><br>
                    <input type="email"
name="email" required>
                </div>
                <div class="data2">
<label>Password</label><br>
                    <input type="password"
name="password" required>
                </div>
                <div class="data2">
<label>Pseudocode</label><br>
                    <input type="text"
name="pseudocode" required>
                </div>
                <div class="data2">
                    <label
id='coldepartment1'>Department</label>
<br>
                    <select id="coe-dept1">
                        <option
name="department" required>
                            <option
value="Electronics Engineering
Department">Electronics Engineering
Department</option>
                            <option
value="Civil Engineering
Department">Civil Engineering
Department</option>
                            <option
value="Electrical Engineering
Department">Electrical Engineering
Department</option>
                            <option
value="Mechanical Engineering
Department">Mechanical Engineering
Department</option>
                            <select>
                        </div>
                        <div class="btn3">
                            <button type="submit"
class="btn1" id="register-fbutton">
                                Add
User</button>
                        </div>
                    </div>
                <div id="myModal1" class="modal1">
                    <div class="modal-content1">
                        <div class="modal-header">
                            <span>
                                <span>&times;</span>
                            </span>
                        </div>
                        <div class="modal-body1">
                            <div class="container2ii">
                                <div class="profile-container">
                                    <div class="full-container"
style="text-align:center">
  <div class="profile-
container1">
  <h3>Pseudocode
List</h3>
  <div>
  <div class="profile-photo"
style="text-align:center">
  <table width="250px">
  <?php
if(isset($_SESSION['username'])) {
  include_once
'server.php';
  $sql = "SELECT *
FROM pseudocodedb";
  $stmt = mysqli_stmt_init($conn);
  if
(!mysqli_stmt_prepare($stmt, $sql)) {
  header("location:
../pseudocode.php?error=stmtfailed");
  exit();
  } else {
  mysqli_stmt_execute($stmt);
  $result = mysqli_stmt_get_result($stmt);
  while ($row =
mysqli_fetch_assoc($result)) {
  echo '<tr>
<td>'.$row['pseudocodedb'].'
<td>'<tr>';
  }
  }
  </table>
                                    </div>
                                    <div class="profile-container">
  <div id="account-header"
style="text-align: center">
  <h3>Email
Pseudocode</h3>
  <div>
  <form method="POST"
action="Includes/adduser.inc.php">
  <hr>
  <div class="data1">
<label>Email</label><br>
  <input type="email"
name="email" required>
  </div>
  <div class="data1">
  <label>Pseudocode</label><br>
  <input type="text"
name="pseudocode" id="myInput" required>
  </div>
  <div class="inner">
  <button type="button"
id='generate' onclick="generateCode()" name="generatepdcc"
class="btn1">Generate
Pseudocode</button>
  <button id='send'
type="submit" name="send" class="btn1">Send Email</button>
  </div>
  </div>
                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
                <script>
                    var modal = document.getElementById("myModal");
                    var btn = document.getElementById("addNew");
                    var span = document.getElementsByClassName("close")[0];
                    btn.onclick = function() {
                        modal.style.display = "block";
                    }
                    span.onclick = function() {
                        modal.style.display = "none";
                    }
                    window.onclick = function(event) {
                        if (event.target == modal) {
                            modal.style.display = "none";
                        }
                    }
                </script>
                <script>
                    var modal1 = document.getElementById("myModal1");
                    var btn1 = document.getElementById("send-email");
                    var span1 = document.getElementsByClassName("close")[0];
                    btn1.onclick = function() {
                        modal1.style.display = "block";
                    }
                    span1.onclick = function() {
                        modal1.style.display = "none";
                    }
                    window.onclick = function(event) {
                        if (event.target == modal1) {
                            modal1.style.display = "none";
                        }
                    }
                </script>
            </div>
        </div>
    </div>

```

```

        }
    }
</script>
<script>
    function generateCode() {
        var text = "";
        var possible = "ABCDEFGHIJKLMNOPQRSTUVWXYZYZ0123456789";
        for (var i = 0; i < 5; i++)
            text += possible.charAt(Math.floor(Math.random() * possible.length));
    }

    document.getElementById("myInput").value = text;
    return false;
}
</script>
<script>
    function searchpage() {
        document.usertable.action = "searchpage.php";
        document.usertable.submit();
    }
</script>
<script src="app.js"></script>
</body>
</html>

server.php
<?php

$servername = "localhost";
$dbUsername = "root";
$dbPassword = "admin";
$dbName = "nbc2";

$conn = mysqli_connect($servername, $dbUsername, $dbPassword, $dbName);
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

Training.php
<?php
session_start();
$defaultImg = $_SESSION['profileImg'];
$userdepartment = $_SESSION['department'];
$status1 = "PENDING (DNWC)";
$status2 = "PENDING (NNF)";
include_once 'server.php';
if (isset($_SESSION['username'])) {
    if ($_SESSION['username'] == '4sight'){
        $sql21 = "SELECT COUNT(*) FROM userarchive WHERE (pdf_status='status1' OR pdf_status='status2')";
        $result21=mysqli_query($conn,$sql21);
        $rowCount= mysqli_fetch_row($result21)[0];
    } else{
        $sql21 = "SELECT COUNT(*) FROM userarchive WHERE department='$userdepartment' AND
        (pdf_status='status1' OR pdf_status='status2')";
        $result21=mysqli_query($conn,$sql21);
        $rowCount= mysqli_fetch_row($result21)[0];
    }
}
else{
    $sql21 = "SELECT COUNT(*) FROM userarchive WHERE department='userdepartment' AND
    (pdf_status='status1' OR pdf_status='status2')";
    $result21=mysqli_query($conn,$sql21);
    $rowCount= mysqli_fetch_row($result21)[0];
}

OR
pdf_status='status1' OR
pdf_status='status2'";
$result21=mysqli_query($conn,$sql21);
$rowCount=
mysqli_fetch_row($result21)[0];
}

?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>NBC2 iPromote</title>
    <link rel="icon" type="image/png" href="favicon.png">
    <link rel="stylesheet" href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css" integrity="sha384-AYmEC3Yw5cVb3ZcuHtOA93w35dYTsvhLPVnYs9eStHfGjvOvKxViELGroGkvsg+p" crossorigin="anonymous"/>
    <link rel="stylesheet" href="style.css">
    <link rel="stylesheet" href="scroll.css">
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/2.1.1/jquery.min.js"></script>
    <link rel="stylesheet" href="https://cdn.rawgit.com/mfd/09b70eb474836f25a21660282ce0fd/raw/e06a670afcb2b861ed2ac4a1ef752d062ef6b46b/Gilroy.css">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KyZXEAg3QhqLMpG8r+8fhAXLRk2vvoc2f3qkOWe" crossorigin="anonymous">
    <style>
        .users-tab {
            overflow-y: scroll;
            height:300px;
            border: 2px #6e1919 solid;
        }

        .link-item span:hover {
            background-color: #f0e6da !important;
            color: #6d1919 !important;
        }
        #editTrain {
            margin-top: 10px;
        }
        .buttonedit{
            float: right;
        }
        .users-div1 {
            overflow-y: scroll;
            height:300px;
            border: 2px #6e1919 solid;
        }
        #coo-dept2 {
            background-color: transparent;
            color: #6e1919;
        }
    </style>
    border: none;
    font-weight: normal;
    width: auto;
}
.txtField {
    background-color: transparent;
    color: #6e1919;
    border: none;
    font-weight: normal;
    width: auto;
}
table {
    border-collapse: collapse;
    border-spacing: 0;
    width: 100%;
}
th {
    text-align: left;
    padding: 8px;
    color: #6e1919;
    font-weight: bold;
    font-size: 15px;
}
td {
    text-align: left;
    padding: 8px;
    color: #6e1919;
    font-weight: normal;
    font-size: 15px;
}
tr:nth-child(even){background-color: #f0e6da}
.data2 {
    margin-bottom: 5px;
}
.btn3{
    margin-top: 10px;
}
.data2 label{
    font-size: 15px;
    color:#6e1919;
}
.data2 input{
    height: 30px;
    width: 100%;
    padding-left: 10px;
    font-size: 15px;
    border: 1px solid #6e1919;
    color: #976c62;
}
.modal1 {
    position: fixed;
    top:0%;
    left: 0;
    z-index: 1055;
    display: none;
    width: 100%;
    height: 100%;
    overflow-x: hidden;
    overflow-y: auto;
    outline: 0;
    background-color: rgb(0,0,0); /* Fallback color */
    background-color: rgba(0,0,0,0.4); /* Black w/ opacity */
    -webkit-animation-name: fadeIn; /* Fade in the background */
    -webkit-animation-duration: 0.4s;
    animation-name: fadeIn;
    animation-duration: 0.4s
}

```

```

        }
.modal-header {
    padding: 2px 16px;
    background-color: #6d1919;
}
.close1{
    color: white !important;
    font-size: 1.5rem !important;
    float: right !important;
}
.close1:hover,
.close1:focus {
    color: #000 !important;
    text-decoration: none;
    cursor: pointer;
}
/* Modal Body */
.modal-body1 {
    padding: 16px 16px;
}
/* Modal Content */
.modal-content1 {
    top: 15%;
    position: relative;
    background-color: #fefefe;
    margin: auto;
    padding: 0;
    width: 30%;
    box-shadow: 0 4px 8px 0
    rgba(0,0,0,0.2),0 6px 20px 0
    rgba(0,0,0,0.19);
    animation-name: animatetop;
    animation-duration: 0.4s
}
/* Add Animation */
@keyframes animatetop {
    from {top: -300px; opacity: 0}
    to {top: 0; opacity: 1}
}
@-webkit-keyframes fadeIn {
    from {opacity: 0}
    to {opacity: 1}
}
@keyframes fadeIn {
    from {opacity: 0}
    to {opacity: 1}
}
.modal3 {
    position: fixed;
    top:0%;
    left: 0;
    z-index: 1055;
    display: none;
    width: 100%;
    height: 100%;
    overflow-x: hidden;
    overflow-y: auto;
    outline: 0;
    background-color:    rgb(0,0,0); /* Fallback color */
    background-color:  rgba(0,0,0,0.4); /* Black w/ opacity */
    -webkit-animation-name: fadeIn; /* Fade in the background */
    -webkit-animation-duration: 0.4s;
    animation-name: fadeIn;
    animation-duration: 0.4s
}
.modal-header3 {
    padding: 2px 16px;
}

```

	background-color: #6d1919;	
	height: 40px;	
	}	
	/* Modal Body */	
	.modal-body3 {	
	padding: 16px 16px;	
	}	
	/* Modal Content */	
	.modal-content3 {	
	top: 15%;	
	position: relative;	
	background-color: #fefefe;	
	margin: auto;	
	padding: 0;	
	width: 30%;	
	height: 280px;	
	box-shadow: 0 4px 8px 0	0
rgba(0,0,0,0.2),0	6px 20px 0	0
rgba(0,0,0,0.19);		
	animation-name: animatetop;	
	animation-duration: 0.4s	
	}	
	.btn4 {	
	background-color: transparent;	
	color: #976c62;	
	border: none;	
	font-size: 70px;	
	margin: 0px 0px;	
	text-align: center;	
	margin: auto;	
	width: 100%;	
	}	
	#btn5{	
	background-color: #d3d3d3 !important;	
	color: #6d1919;	
	padding: 5px;	
	border: none;	
	margin-bottom: 5px;	
	}	
	.file-upload {	
	margin-bottom: 10px;	
	}	
	.file-upload p{	
	color: #976c62;	
	text-align: center;	
	font-size: 15px;	
	}	
	::-webkit-scrollbar {	
	width: 10px;	
	}	
	::-webkit-scrollbar-track {	
	background: #fffff;	
	}	
	::-webkit-scrollbar-thumb {	
	background: #6e1919;	
	}	
	::-webkit-scrollbar-thumb:hover {	
	background: #555;	
	}	
	#coldepartment1 {	
	font-size: 15px;	
	color:#6e1919;	
	}	
	#codept1 {	
	height: 30px;	
	width: 100%;	
	padding-left: 10px;	
	font-size: 15px;	
	border: 1px solid #6e1919;	
	color: #976c62;	

```

        }
.modal {
    position: fixed;
    top:0%;
    left: 0;
    z-index: 1055;
    display: none;
    width: 100%;
    height: 100%;
    overflow-x: hidden;
    overflow-y: auto;
    outline: 0;
    background-color:    rgb(0,0,0); /* Fallback color */
    background-color:  rgba(0,0,0,0.4); /* Black w/ opacity */
    -webkit-animation-name: fadeIn; /* Fade in the background */
    -webkit-animation-duration: 0.4s;
    animation-name: fadeIn;
    animation-duration: 0.4s
}
.close{
    color: white !important;
    font-size: 1.5rem !important;
    float: right !important;
}
.close:hover,
.close:focus {
    color: #000 !important;
    text-decoration: none;
    cursor: pointer;
}
/* Modal Body */
.modal-body {
    padding: 16px 16px;
}
/* Modal Content */
.modal-content {
    top: 15%;
    position: relative;
    background-color: #fefefe;
    margin: 0;
    padding: 0;
    width: 65%;
    box-shadow: 0 4px 8px 0
    rgba(0,0,0,0.2),0 6px 20px 0
    rgba(0,0,0,0.19);
    animation-name: animatetop;
    animation-duration: 0.4s
}
/*-style>
<style>
/*ADJUSTMENTS IN THE NAVBAR*/
@media screen and (max-width: 600px){
    .navbar {
        height: 40px;
        font-size: 1.2rem;
        position: sticky !important;
    }
    .navbar__container {
        display: flex;
        justify-content: space-between;
        height: 100px;
        z-index: 1;
        width: 100%;
        max-width: 1300px;
    }
}
```

```

margin: 0 auto;
padding: 0 ;
}
.nbclogo img{
width: 47px;
height: 53px;
top: -8px !important;
left: 10px !important;
}
#navbar__logo {
font-size: 20px;
left: 65px !important;
height: 20px;
}
.navbar__menu.active {
font-size: 1rem;
}
#mobile-menu{
top: 0px;
}
body {
background-image:
url(bg1.jpg);
background-position: center;
background-size: cover;
background-repeat: no-repeat;
background-attachment: fixed;
}
.modal-content1 {
top: 15%;
position: relative;
background-color: #fefefe;
margin: auto;
padding: 0;
width: 60%;
box-shadow: 0 4px 8px 0
rgba(0,0,0,0.2),0 6px 20px 0
rgba(0,0,0,0.19);
animation-name: animatetop;
animation-duration: 0.4s
}
.modal-content {
top: 15%;
position: relative;
background-color: #fefefe;
margin: auto;
padding: 0;
width: 70%;
box-shadow: 0 4px 8px 0
rgba(0,0,0,0.2),0 6px 20px 0
rgba(0,0,0,0.19);
animation-name: animatetop;
animation-duration: 0.4s
}
.modal-content3 {
top: 15%;
position: relative;
background-color: #fefefe;
margin: auto;
padding: 0;
width: 60%;
height: 280px;
box-shadow: 0 4px 8px 0
rgba(0,0,0,0.2),0 6px 20px 0
rgba(0,0,0,0.19);
animation-name: animatetop;
animation-duration: 0.4s
}
}

/*
ADJUSTMENTS FOR
CONTAINER 1 TO DISAPPEAR */
@media screen and (max-width:
600px){
body{
background-image: none;
}
#container1{
display: none;
}
#container2Inside i{
font-size: 80px;
}
#container2InsideHeading{
width: 73%;
height: 100%;
justify-content: center;
font-size: 12px;
}
h2,h2{
font-size: 25px;
}
}
/* NEW - NAVBAR MENU */
.navbar__links {
text-align: center;
padding: 0.5rem;
width: 100%;
display: table;
}
.linkk-item{
display: none;
}
.linkk-item{
padding: 5px 20px;
}
.navbar__item {
height: 53px;
}
@media screen and (max-width:
600px){
.linkk-item{
display: unset !important;
}
}
/* ADJUSTMENTS PER PAGE */
@media screen and (max-width:
600px){
#import-header h1{
font-size:30px;
}
#navbar__logo{
top: 10px !important;
}
#notification{
margin-top: -34px !important;
}
}
</style>
</head>
<body>

<div class="full-page">
<nav class="navbar">
<div class="navbar__container">
<div class="nbclogo">


```



```

<label>Date</label><br>
    <input type="date"
name="date" required>
    </div>
    <div class="data2">

<label>Time</label><br>
    <input type="time"
name="time" required>
    </div>
    <div class="data2">
        <label>Contact
Person</label><br>
        <input type="text"
name="contactperson" required>
        </div>
        <div class="data2">
            <label>Contact
Number</label><br>
            <input type="text"
name="contactno" required>
            </div>
            <div class="data2">
                <label>Event
Location</label><br>
                <input type="text"
name="address" required>
                </div>
                <div class="data2">
<label>Email</label><br>
                <input type="email"
name="email" required>
                </div>
                <div class="btn3">
                    <button type="submit"
class="btn1" id='register-fbutton'
name="add">Add New</button>
                </div>
                </form>
            </div>
        </div>
        <div id="myModal3" class="modal3">
            <div class="modal-content3">
                <div class="modal-header3"
style="color: #f0e6da; align-items:center;
padding-top: 5px;; font-size: 20px;">
                    Delete?
                </div>
                <div class="modal-body3">
                    <form method="POST"
action="Includes/adduser.inc.php">
                        <div class="file-upload">
                            <button class="btn4"
disabled><i class="fas fa-exclamation-triangle"></i></button>
                        <br>
                        <p>Are you sure you
want to delete the following training/s?
This action cannot be undone!</p>
                    </div>
                    <div class="btn3">
                        <button type="button"
class="btn1" id='conf'
style="float:right">Confirm</button>
                        <button type="button"
class="close3" id='btn5'
style="float:right; margin-right:10px;">Cancel</button>
                    </div>
                </div>
            </div>
        </div>
    </div>
    <div class="close">&times;</div>
</div>
<div class="modal-body">
<?php
    if (isset($_GET["edit"])) {
        echo '<script>
            var modal1 =
document.getElementById("myModal");
            var span1 =
document.getElementsByClassName("close")[0];
            modal1.style.display =
"block";
            function() {
                modal1.style.display =
"none";
                window.onclick =
function(event) {
                    if (event.target ==
modal1) {
                        modal1.style.display =
"none";
                    }
                }
            }
        </script>';
    }
    <?>
    <form
        action="Includes/training.inc.php"
        method="post" enctype="multipart/form-data">
        <div class="users-div1">
            <table>
                <tr>
                    <th>Category</th>
                    <th>Event</th>
                    <th>Date</th>
                    <th>Time</th>
                    <th>Contact
Person</th>
                    <th>Contact
Number</th>
                </tr>
                <?php
                    require_once
"server.php";
                    $check =
$_SESSION['check'];
                    $rowCount =
count($check);
                    for($i=0;$i<$rowCount;$i++) {
                        $result =
mysqli_query($conn, "SELECT * FROM
trainingview WHERE id=" . $check[$i] .
"");
                        $row[$i]=
mysqli_fetch_array($result);
                        echo '<tr>
                            <td><input
type="hidden" name="id[]" value='.$row[$i]['id'].'>
                            <select id="co-e
dept2" name="category[]">
                                <option
value='.$row[$i]['category'].'
selected
disabled
hidden'.'$row[$i]['category'].'
                            </option>
                            <option
value="Education
Qualification">Education
Qualification</option>
                            <option
value="Experience and Length of
Service">Experience and Length of
Service</option>
                            <option
value="Professional Development
Achievement and Honors">Professional
Development Achievement and
Honors</option>
                        </select>
                    </td>
                    <td><input
type="text" name="event[]"
class="txtField"
value="'.$row[$i]['event'].'"></td>
                    <td><input
type="date" name="date[]"
class="txtField"
value='.$row[$i]['date'].'
                    <td><input
type="time" name="time[]"
class="txtField"
value='.$row[$i]['time'].'
                    <td><input
type="text" name="contactperson[]"
class="txtField"
value="'.$row[$i]['contactPerson'].'"></td>
                    <td><input
type="text" name="contactno[]"
class="txtField"
value="'.$row[$i]['contactNumber'].'"></td>
                    <td><input
type="text" name="address[]"
class="txtField"
value="'.$row[$i]['address'].'"></td>
                    <td><input
type="email" name="email[]"
class="txtField"
value="'.$row[$i]['email'].'"></td>
                </?>
            </table>
        </div>
        <div class="buttonedit">
            <button type="submit"
class="btn1" id="editTrain"
name="update">Update</button>
        </div>
    </div>
</form>
</div>
</div>
</div>

```

```

</div>
<script>
    var modal      = document.getElementById("myModal1");
    ;
    var btn        = document.getElementById("addTrain");
    var span       = document.getElementsByClassName("close1")[0];
    btn.onclick = function() {
        modal.style.display = "block";
    }
    span.onclick = function() {
        modal.style.display = "none";
    }
    window.onclick = function(event) {
        if (event.target == modal) {
            modal.style.display = "none";
        }
    }
</script>
<script>
    var modal3     = document.getElementById("myModal3");
    ;
    var btn3       = document.getElementById("conf-del");
    var span3      = document.getElementsByClassName("close3")[0];
    btn3.onclick = function() {
        modal3.style.display = "block";
    }
    span3.onclick = function() {
        modal3.style.display = "none";
    }
    window.onclick = function(event) {
        if (event.target == modal3) {
            modal3.style.display = "none";
        }
    }
</script>
<script>
    const realFileBtn = document.getElementById("delete");
    const customBtn   = document.getElementById("conf");
    customBtn.addEventListener("click", function() {
        realFileBtn.click();
    });
</script>
<script src="app.js"></script>
<script>
    $("#notification").filter(function(){
        return $(this).text().trim() === "0";
    }).hide();
</script>
</body>
</html>
<?php
} else{
    header("location:
index.php?error=notloggedin");
    exit();
}
?>

upload.php
<?php
session_start();
$_userdepartment
$_SESSION["userdepartment"];
if (isset($_SESSION['useremail'])) {
if (isset($_POST['submit'])) {
    $time = microtime();
    $time = explode(' ', $time);
    $time = $time[1] + $time[0];
    $start = $time;
    $file = $_FILES["file"];
    $fileName = $_FILES["file"]["name"];
    $fileTmpName =
$_FILES["file"]["tmp_name"];
    $fileSize = $_FILES["file"]["size"];
    $fileError = $_FILES["file"]["error"];
    $fileType = $_FILES["file"]["type"];
    $fileExt = explode('.', $fileName);
    $fileActualExt =
strtolower(end($fileExt));
    $allowed = array('pdf');
    if (in_array($fileActualExt, $allowed)) {
        if ($fileError === 0) {
            if ($fileSize < 25000000) {
                include_once 'server.php';
                $fileNameNew = $fileName .
". ". uniqid("", true) . ". ". $fileActualExt;
                $fileDestination =
"uploads/".$fileNameNew;
                $email =
$_SESSION['useremail'];
                $first =
$_SESSION['userfirstname'];
                $last =
$_SESSION['userlastname'];
                date_default_timezone_set("Asia/Manila
");
                $dt2=date("Y-m-d h:i:s");
                $sql = "SELECT * FROM
userfiles";
                $stmt =
mysqli_stmt_init($conn);
                if (!mysqli_stmt_prepare($stmt,
$sql)) {
                    header("location:
Import.php?error=stmtfailed");
                    exit();
                } else {
                    mysqli_stmt_execute($stmt);
                    $result =
mysqli_stmt_get_result($stmt);
                    $rowCount =
mysqli_num_rows($result);
                    $setOrder = $rowCount + 1;
                    $sql = "INSERT INTO
userfiles (email, fname, lname, filename,
orderfile, date, department) VALUES (?, ?, ?, ?, ?, ?)";
                    if
(!mysqli_stmt_prepare($stmt, $sql)) {
                        header("location:
Import.php?error=stmtfailed");
                        exit();
                    } else {
                        mysqli_stmt_bind_param($stmt,
"$ssssss", $email, $first, $last,
$fileNameNew);
                        mysqli_stmt_execute($stmt);
                        $result1 =
mysqli_stmt_get_result($stmt);
                        $row17 =
mysqli_fetch_assoc($result17);
                        $ini_status =
$row17['pdf_status'];
                        $sql =
"UPDATE userarchive SET ini_status=? WHERE
email = ? AND filename=?";
                        $stmt =
mysqli_stmt_init($conn);
                        if
(!mysqli_stmt_prepare($stmt, $sql)) {
                            header("location:
Import.php?error=stmtfailed");
                            exit();
                        } else {
                            mysqli_stmt_bind_param($stmt,
"sss".$ini_status,
$email, $fileNameNew);
                            mysqli_stmt_execute($stmt);
                            mysqli_stmt_close($stmt);
                        }
                    }
                }
                $sql = "SELECT * FROM
pt1_educ WHERE email = ?";
                $stmt =
mysqli_stmt_init($conn);
                if
(!mysqli_stmt_prepare($stmt, $sql)) {
                    header("location:
Import.php?error=stmtfailed");
                    exit();
                } else {
                    mysqli_stmt_bind_param($stmt,
"$s", $email);
                    mysqli_stmt_execute($stmt);
                    $result1 =
mysqli_stmt_get_result($stmt);
                }
            }
        }
    }
}
?>
```

```

        $row1          = mysqli_stmt_execute($stmt);
        mysqli_fetch_assoc($result1);

        $sql  = "SELECT * FROM pt2_exp WHERE email = ?;";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location: Import.php?error=stmtfailed");
            exit();
        } else {

            mysqli_stmt_bind_param($stmt, "s", $email);
            mysqli_stmt_execute($stmt);
            $result2 = mysqli_stmt_get_result($stmt);
            $row2 = mysqli_fetch_assoc($result2);
            $sql = "SELECT * FROM pt3_achieve_1 WHERE email = ?;";
            $stmt = mysqli_stmt_init($conn);
            if (!mysqli_stmt_prepare($stmt, $sql)) {
                header("location: Import.php?error=stmtfailed");
                exit();
            } else {
                mysqli_stmt_bind_param($stmt, "s", $email);
                mysqli_stmt_execute($stmt);
                $result3 = mysqli_stmt_get_result($stmt);
                $row3 = mysqli_fetch_assoc($result3);
                $sql = "SELECT * FROM pt3_achieve_2 WHERE email = ?;";
                $stmt = mysqli_stmt_init($conn);
                if (!mysqli_stmt_prepare($stmt, $sql)) {
                    header("location: Import.php?error=stmtfailed");
                    exit();
                } else {
                    mysqli_stmt_bind_param($stmt, "s", $email);
                    mysqli_stmt_execute($stmt);
                    $result4 = mysqli_stmt_get_result($stmt);
                    $row4 = mysqli_fetch_assoc($result4);
                    $sql = "SELECT * FROM pt3_achieve_3 WHERE email = ?;";
                    $stmt = mysqli_stmt_init($conn);
                    if (!mysqli_stmt_prepare($stmt, $sql)) {
                        header("location: Import.php?error=stmtfailed");
                        exit();
                    } else {
                        mysqli_stmt_bind_param($stmt, "s", $email);
                        mysqli_stmt_execute($stmt);
                        $result5 = mysqli_stmt_get_result($stmt);
                        $row5 = mysqli_fetch_assoc($result5);
                        $sql = "SELECT * FROM pt3_achieve_456 WHERE email = ?;";
                        $stmt = mysqli_stmt_init($conn);
                        if (!mysqli_stmt_prepare($stmt, $sql)) {
                            header("location: Import.php?error=stmtfailed");
                            exit();
                        } else {
                            mysqli_stmt_bind_param($stmt, "s", $email);
                            mysqli_stmt_execute($stmt);
                            $result6 = mysqli_stmt_get_result($stmt);
                            $row6 = mysqli_fetch_assoc($result6);
                            $sql = "SELECT * FROM prev_pts WHERE email = ?;";
                            $stmt = mysqli_stmt_init($conn);
                            if (!mysqli_stmt_prepare($stmt, $sql)) {
                                header("location: Import.php?error=stmtfailed");
                                exit();
                            } else {
                                mysqli_stmt_bind_param($stmt, "s", $email);
                                mysqli_stmt_execute($stmt);
                                $result7 = mysqli_stmt_get_result($stmt);
                                $row7 = mysqli_fetch_assoc($result7);
                                $Total_points = $row1['cat1_total'] + $row2['cat2_total'] + $row3['cat31_total'] + $row4['cat32_total'] + $row5['cat33_total'] + $row6['cat3456_total'] + $row7['cat1_ini'] + $row7['cat2_ini'] + $row7['cat3_ini'];
                                if ($Total_points < 66) {
                                    $rank_in1 = "Instructor I";
                                    $sql = "UPDATE totalpointsandrank set totalPoints = '$total_points', rank='$rank_in1' WHERE email='$email';";
                                } else if ($Total_points >= 66 && $Total_points < 77) {
                                    $rank_in2 = "Instructor II";
                                    $sql = "UPDATE totalpointsandrank set totalPoints = '$total_points', rank='$rank_in2' WHERE email='$email';";
                                } else if ($Total_points >= 77 && $Total_points < 88) {
                                    $rank_in3 = "Instructor III";
                                    $sql = "UPDATE totalpointsandrank set totalPoints = '$total_points', rank='$rank_in3' WHERE email='$email';";
                                } else if ($Total_points >= 88 && $Total_points < 97) {
                                    $rank_ast1 = "Assistant Professor I";
                                    $sql = "UPDATE totalpointsandrank set totalPoints = '$total_points', rank='$rank_ast1' WHERE email='$email';";
                                } else if ($Total_points >= 97 && $Total_points < 106) {
                                    $rank_ast2 = "Assistant Professor II";
                                    $sql = "UPDATE totalpointsandrank set totalPoints = '$total_points', rank='$rank_ast2' WHERE email='$email';";
                                } else if ($Total_points >= 106 && $Total_points < 115) {
                                    $rank_ast3 = "Assistant Professor III";
                                    $sql = "UPDATE totalpointsandrank set totalPoints = '$total_points', rank='$rank_ast3' WHERE email='$email';";
                                } else if ($Total_points >= 115 && $Total_points < 124) {
                                    $rank_ast4 = "Assistant Professor IV";
                                    $sql = "UPDATE totalpointsandrank set totalPoints = '$total_points', rank='$rank_ast4' WHERE email='$email';";
                                } else if ($Total_points >= 124 && $Total_points < 131) {
                                    $rank_ase1 = "Associate Professor I";
                                    $sql = "UPDATE totalpointsandrank set totalPoints = '$total_points', rank='$rank_ase1' WHERE email='$email';";
                                } else if ($Total_points >= 131 && $Total_points < 138) {
                                    $rank_ase2 = "Associate Professor II";
                                    $sql = "UPDATE totalpointsandrank set totalPoints = '$total_points', rank='$rank_ase2' WHERE email='$email';";
                                } else if ($Total_points >= 138) {
                                    $rank_ase3 = "Associate Professor III";
                                    $sql = "UPDATE totalpointsandrank set totalPoints = '$total_points', rank='$rank_ase3' WHERE email='$email';";
                                }
                            }
                        }
                    }
                }
            }
        }
    }
}

```



```

        $resultImg      = font-size: 20px;
mysqli_stmt_get_result($stmt);    }
$ResultFetch     = .link-item a:hover {
mysqli_fetch_assoc($resultImg);  color: #f0e6da !important;
                                cursor: pointer;
}
if ($ResultFetch['status'] == } .link-item: hover {
0{                               background-color: #6e1919;
                                color: #f0e6da !important;
                                transition: all 0.3s ease;
}
$_SESSION["userlastname"];      }
$defaultImg      = #profile: hover,      #importPdf: hover,
"profileimage/profile". $name. $lastname. #employeeCreditView: hover,
".jpg?". mt_rand();           #logoutBtn: hover{
                                color: #f0e6da !important;
                                transition: all 0.3s ease;
}
$_SESSION['profileImg']        #profile: active,      #importPdf: active,
= $defaultImg;                 #employeeCreditView: active,
} else {                      #logoutBtn: active{
                                color: #f0e6da;
                                transition: all 0.3s ease;
}
$defaultImg      = .modal {
"profileimage/defaultimage.jpg"; position: fixed;
$_SESSION['profileImg']        top: 30%;
= $defaultImg;                 left: 0;
}                                z-index: 1055;
}                                display: none;
}                                width: 100%;
header("location:           height: 100%;
index.php?error=notloggedin"); overflow-x: hidden;
exit();                           overflow-y: auto;
}
?>                                outline: 0;
<!DOCTYPE html>                                }
<html lang="en">                                .modal-header {
<head>                                padding: 2px 16px;
<meta charset="UTF-8">                                background-color: #6d1919;
<meta http-equiv="X-UA-Compatible"                                }
content="IE=edge">                                .close {
<meta name="viewport"           color: white !important;
content="width=device-width,     font-size: 1.5rem !important;
initial-               float: right !important;
scale=1.0">                                }
<title>NBC2 iPromote</title>                                .close: hover,
<link rel="icon" type="image/png"           .close: focus {
href="favicon.png">                                color: #000 !important;
<link           text-decoration: none;
rel="stylesheet"           cursor: pointer;
href="https://pro.fontawesome.com/relea                                }
ses/v5.10.0/css/all.css"                                /* Modal Body */
integrity="sha384-                                .modal-body {
AYmEC3Yw5cVb3ZcuHtOA93w35dYT      padding: 16px 16px;
svhLPVnYs9eStHfGJvOvKxVfELGroG      text-align: center;
kvsg+p" crossorigin="anonymous"/>      }
<link                                /* Modal Content */
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css"      .modal-content {
rel="stylesheet"           integrity="sha384-KyZXEAg3QhqLMpG8r+8fhAXLRk2vv
oC2f3B09zVXn8CA5QIVfZOJ3BCsw2P      position: relative;
0p/We" crossorigin="anonymous">           background-color: #fefefef;
<link rel="stylesheet" href="style.css">           margin: auto;
<link           rel="stylesheet"           padding: 0;
href="scroll.css">           width: 30%;
<link           rel="stylesheet"           box-shadow: 0 4px 8px 0
href="https://cdn.rawgit.com/mfd/09b70eb47474836f25a21660282ce0fd/raw/e06a      rgba(0,0,0,0.2), 0 6px 20px 0
670afcb2b861ed2ac4a1ef752d062ef6b46      rgba(0,0,0,0.19);
b/Gilroy.css">           animation-name: animatetop;
<style>           animation-duration: 0.4s
.link-item{           padding: 5px 20px;
padding: 5px 20px;      }
.link-item a {           color: #6e1919;
color: #6e1919;           text-decoration-line: none;
text-decoration-line: none;           font-weight: bold;
font-weight: bold;           }
.link-item a {           from {top: -300px; opacity: 0}
color: #6e1919;           to {top: 0; opacity: 1}
text-decoration-line: none;           }
font-weight: bold;           }
/* Add Animation */           @keyframes animatetop {
@keyframes animatetop {
from {top: -300px; opacity: 0}
to {top: 0; opacity: 1}
}
#uploading {           margin: 15px 0 !important;
}
#account-header h3{           font-weight: bold;
color: #6e1919;
}
.data1 {           margin-bottom: 5px;
}
.data1 label{           font-size: 15px;
color: #6e1919;
}
.data1 input{           height: 35px;
width: 350px;
padding-left: 10px;
font-size: 15px;
border: 1px solid #6e1919;
color: #976c62;
}
.final-container {           width: 100%;
padding: 40px;
background-color: white;
border-color: #6d1919;
}
.container2i {           width: 100%;
padding: 20px 0px;
background-color: white;
border-color: #6d1919;
display: flex;
flex-direction: row;
flex-wrap: wrap;
justify-content: flex-start;
align-items: flex-start;
}
.profile-container {           display: flex;
justify-content: center;
align-items: center;
align-content: flex-start;
margin: 0px 80px;
}
.profile-settings{           max-width: 350px;
}
.btn2 {           margin-top: 10px;
float: right;
}
@media screen and (max-width: 700px){           .profile-container{
margin: 8% auto;
}
.container2i {           flex-direction: column;
justify-content: space-around;
align-items: center;
}
}

```

```

<style>
    /*ADJUSTMENTS IN THE NAVBAR*/
    @media screen and (max-width: 600px){
        .navbar {
            height: 40px;
            font-size: 1.2rem;
            position: sticky !important;
        }
        .navbar__container {
            display: flex;
            justify-content: space-between;
            height: 100px;
            z-index: 1;
            width: 100%;
            max-width: 1300px;
            margin: 0 auto;
            padding: 0 ;
        }
        .nbclogo img{
            width: 47px;
            height: 53px;
            top: -8px !important;
            left: 10px !important;
        }
        #navbar__logo {
            font-size: 20px;
            left: 65px !important;
            height: 20px;
        }
        .navbar__menu.active {
            font-size: 1rem;
        }
        #mobile-menu{
            top: 0px;
        }
        body {
            background-image: url(bg1.jpg);
            background-position: center;
            background-size: cover;
            background-repeat: no-repeat;
            background-attachment: fixed;
        }
        /* ADJUSTMENTS FOR CONTAINER 1 TO DISAPPEAR */
        @media screen and (max-width: 600px){
            body{
                background-image: none;
            }
            #container1{
                display: none;
            }
            #container2Inside i{
                font-size: 80px;
            }
            #container2InsideHeading{
                width: 73%;
                height: 100%;
                justify-content: center;
                font-size: 12px;
            }
            h2,h2{
                font-size: 25px;
            }
            .modal-content {
                position: relative;
            }
        }
    }

    /*ADJUSTMENTS IN THE NAVBAR*/
    @media screen and (max-width: 600px){
        .background-color: #fefef;
        margin: auto;
        padding: 0;
        width: 70%;
        box-shadow: 0 4px 8px 0 rgba(0,0,0,0.2), 0 6px 20px 0 rgba(0,0,0,0.19);
        animation-name: animatetop;
        animation-duration: 0.4s
    }
    /* NEW - NAVBAR MENU */
    .navbar__links {
        text-align: center;
        padding: 0.5rem;
        width: 100%;
        display: table;
    }
    .linkk-item{
        display: none;
    }
    .linkk-item{
        padding: 5px 20px;
    }
    .navbar__item {
        height: 53px;
    }
    @media screen and (max-width: 600px){
        .linkk-item{
            display: unset !important;
        }
        .profile-container1 img{
            height: 100px;
            width: 100px;
            border-radius: 50%;
        }
        .data1 input{
            height: 35px;
            width: 250px;
            padding-left: 10px;
            font-size: 15px;
            border: 1px solid #6e1919;
            color: #976c62;
        }
    }
    /* ADJUSTMENTS PER PAGE */
    #help-page{
        padding: 0.75rem;
    }
    @media screen and (max-width: 600px){
        #import-header h1{
            font-size:30px;
        }
        #navbar__logo{
            top: 10px !important;
        }
    }
    </style>
    </head>
    <body>
        <!-- Navigation Bar Section -->
        <div class="full-page">
            <nav class="navbar">
                <div class="navbar__container">
                    <div class="nbclogo">
                        
                    </div>
                    <div class="mobile-menu" style="position: absolute; left: 30px; top: 1px;" id="mobile-menu">
                        <a href="#home" id="navbar_logo" style="position: absolute; left:100px; top:5px">NBC2 iPromote</a>
                        <div class="navbar__toggle" id="mobile-menu">
                            <span class="bar"></span>
                            <span class="bar"></span>
                            <span class="bar"></span>
                        </div>
                        <ul class="navbar__menu">
                            <li class="navbar__item">
                                <a href="userprofile.php" class="navbar__links" id="profile-page"><img src=<?php echo $defaultImg; ?> class="profile-img" style="width: 40px; height: 40px; border-radius: 50%;"><span style="margin-right: 15px">Profile</span></a>
                            </li>
                            <li class="navbar__item">
                                <a href="help.php" class="navbar__links" id="help-page" style="padding: 11px !important;">FAQs</a>
                            </li>
                            <li class="linkk-item">
                                <a href="profile.php" class="navbar__links" id="profile">Home</a>
                            </li>
                            <li class="linkk-item">
                                <a href="Import.php" class="navbar__links" id="importPfd">Import PDF</a>
                            </li>
                            <li class="linkk-item">
                                <a href="ECV.php" class="navbar__links" id="employeeCredItView">Employee Credit View</a>
                            </li>
                            <li class="linkk-item">
                                <a href="filearchive.php" class="navbar__links" id="logoutBtn">Files Archive</a>
                            </li>
                            <li class="linkk-item">
                                <a href="audit.php" class="navbar__links" id="logoutBtn">Audit</a>
                            </li>
                            <li class="linkk-item">
                                <a href="Includes/logout.inc.php" class="navbar__links" id="logoutBtn">Logout</a>
                            </li>
                        </ul>
                    </div>
                    <div id="containerProfile">
                        <div id="container1">
                            <div id="containerLogo">
                                
                            </div>
                        </div>
                    </div>
                </div>
            </nav>
        </div>
    </body>

```

```

<ul class="links">
    <li class="link-item">
        <a href="profile.php">
            id="profile">Home</a>
        </li>
        <li class="link-item">
            <a href="Import.php">
                id="importPdf">Import PDF</a>
            </li>
            <li class="link-item">
                <a href="ECV.php">
                    id="employeeCreditView">Employee Credit View</a>
                </li>
                <li class="link-item">
                    <a href="filesarchive.php">
                        id="logoutBtn">Files Archive</a>
                    </li>
                    <li class="link-item">
                        <a href="audit.php">
                            id="logoutBtn">Audit</a>
                        </li>
                        <li class="link-item">
                            <a href="Includes/logout.inc.php">
                                id="logoutBtn">Logout</a>
                            </li>
                            </ul>
                        </div>
                        <div class="final-container">
                            <div id="import-header">
                                <h1>My Profile</h1>
                            </div>
                            <div class="container2i">
                                <div class="profile-container">
                                    <div class="full-container" style="text-align:center">
  <div class="profile-container1">
  
  </div>
  <div class="profile-photo">
  <button type="button" class="btn1" name="uploadImg" id="uploadImg">Change Profile Photo</button>
  </div>
  <?php if (isset($_GET["error"])) { if ($_GET["error"] == "uploadsucces") { echo "<p align='center'><font color="#6e1919>Upload Successful!</font></p>"; } else if ($_GET["error"] == "largefilesize") { echo "<p align='center'><font color="#6e1919>File size is too big!</font></p>"; } else if ($_GET["error"] == "failedupload") { }
  }
  <?php if (isset($_GET["error"])) {
  if ($_GET["error"] == "filenotallowed") {
  echo "<p align='center'><font color="#6e1919>An error occurred!</font></p>"; } else if ($_GET["error"] == "stmtfailed") {
  echo "<p align='center'><font color="#6e1919>Something went wrong, try again!</font></p>"; } else if ($_GET["error"] == "empty") {
  echo "<p align='center'><font color="#6e1919>Fill in All Fields!</font></p>"; } else if ($_GET["error"] == "pwdnotmatch") {
  echo "<p align='center'><font color="#6e1919>Passwords don't match!</font></p>"; } else if ($_GET["error"] == "wrongpassword") {
  echo "<p align='center'><font color="#6e1919>Wrong Password!</font></p>"; } else if ($_GET["error"] == "passwordupdated") {
  echo "<p align='center'><font color="#6e1919>Password Updated!</font></p>"; } } ?>
  </div>
  <div class="profile-container">
  <div class="profile-settings" style="text-align: center">
  <h3>Account Settings</h3>
  <form method="POST" action="Includes/profilesettings.inc.php">
  <hr>
  <div class="data1">
  <label>First Name</label><br>
  <input type="text" name="firstname" value="<?php echo $name; ?>" readonly>
  </div>
  <div class="data1">
  <label>Last Name</label><br>
  </div>
  <div class="data1">
  <label>Current Password</label><br>
  <input type="password" name="curr-pass" required>
  </div>
  <div class="data1">
  <label>Change Password</label><br>
  <input type="password" name="conf-pass" required>
  </div>
  <div class="data1">
  <label>Confirm Password</label><br>
  <input type="password" name="conf-pass" required>
  </div>
  <div class="inner">
  <button id="register-fbutton" type="submit" name="update" class="btn1">Update</button>
  </div>
  <div class="btn2">
  <div class="close">&times;&times;

```

```

        <button type="submit"
class="btn1" name="submit"
id="save">Save</button>
        <div id="custom-text">No
file chosen, yet.</div>
        </form>
    </div>
</div>
<script src="app.js"></script>
<script>
    var modal =
document.getElementById("myModal");
    var btn =
document.getElementById("uploadImg");
    var span =
document.getElementsByClassName("cl
ose")[0];
    btn.onclick = function() {
        modal.style.display = "block";
    }
    span.onclick = function() {
        modal.style.display = "none";
    }
    window.onclick = function(event) {
        if (event.target == modal) {
            modal.style.display = "none";
        }
    }
    const realFileBtn =
document.getElementById("image-file");
    const customBtn =
document.getElementById("choosefile");
    const customTxt =
document.getElementById("custom-
text");
    customBtn.addEventListener("click",
function() {
        realFileBtn.click();
    });
    realFileBtn.addEventListener("change",
function() {
        if (realFileBtn.value) {
            customTxt.innerHTML =
realFileBtn.value.match(
    /[\\ \\](\\w\\d\\s|\\-(\\))]+$/i
)[1];
        } else {
            customTxt.innerHTML = "No file
chosen, yet.";
        }
    });
</script>
</body>
</html>

Users.php
<?php
session_start();
$_defaultImg= $_SESSION['profileImg'];
$_department =
$_SESSION['department'];
$_status1 = "PENDING (DNWC)";
$_status2 = "PENDING (NNF)";
include_once 'server.php';
if(isset($_SESSION['username'])) {
    if($_SESSION['username'] ==
'4sight'){
        $sql = "SELECT COUNT(*) FROM
users";
        $result=mysqli_query($conn,$sql);
        $rowCount=
mysqli_fetch_row($result)[0];
        $sql21 = "SELECT COUNT(*) FROM
userarchive
WHERE
pdf_status='$_status1'
OR
pdf_status='$_status2'";
        $result21=mysqli_query($conn,$sql21);
        $rowCount1=
mysqli_fetch_row($result21)[0];
        } else {
            $sql = "SELECT COUNT(*) FROM
users
WHERE
department='$_department'";
            $result=mysqli_query($conn,$sql);
            $rowCount=
mysqli_fetch_row($result)[0];
            $sql21 = "SELECT COUNT(*) FROM
userarchive
WHERE
department='$_department' AND
(pdf_status='$_status1'
OR
pdf_status='$_status2')";
            $result21=mysqli_query($conn,$sql21);
            $rowCount1=
mysqli_fetch_row($result21)[0];
        } else{
            header("location:
index.php?error=notloggedin");
            exit();
        }
    ?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible"
content="IE=edge">
    <meta name="viewport"
content="width=device-width, initial-
scale=1.0">
    <title>NBC2 iPromote</title>
    <link rel="icon" type="image/png"
href="favicon.png">
    <link rel="stylesheet"
href="https://pro.fontawesome.com/relea
ses/v5.10.0/css/all.css"
integrity="sha384-
AYmEC3Yw5cVb3ZcuHtOA93w35dYT
svhLPVnYs9eStHfGjvOvKxVfELGroG
kvsg+p" crossorigin="anonymous"/>
    <link rel="stylesheet" href="style.css">
    <script
src="https://ajax.googleapis.com/ajax/lib
s/jquery/2.1.1/jquery.min.js"></script>
    <link rel="stylesheet"
href="https://cdn.rawgit.com/mfd/09b70e
b474836f25a21660282ce0fd/raw/e06a
670afcb2b861ed2ac4a1ef752d062ef6b46
b/Gilroy.css">
    <link
href="https://cdn.jsdelivr.net/npm/bootstr
ap@5.1.0/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-
KyZXEAg3QhqLMpG8r+8fhAXLRk2vv
oC2f3B09zVXn8CA5QIVfZOJ3BCsw2P
0p>We" crossorigin="anonymous">
    <style>
        .btn2 {
            background-color: transparent;
            color: #6e1919;
            border: none;
            font-size: 25px;
            margin: 0px 15px;
        }
        .link-item span:hover {
            background-color: #f0e6da
        }
        !important;
        color: #6d1919 !important;
    }
    .users-table {
        overflow-y: scroll;
        height:350px;
        border: 2px #6e1919 solid;
    }
    table {
        border-collapse: collapse;
        border-spacing: 0;
        width: 100%;
    }
    th {
        text-align: left;
        padding: 8px;
        color: #6e1919;
        font-weight: bold;
        font-size: 15px;
    }
    td {
        text-align: left;
        padding: 8px;
        color: #6e1919;
        font-weight: normal;
        font-size: 15px;
    }
    tr:nth-child(even){background-
color: #f0e6da}
    ::-webkit-scrollbar {
        width: 10px;
    }
    ::-webkit-scrollbar-track {
        background: #ffff;
    }
    ::-webkit-scrollbar-thumb {
        background: #6e1919;
    }
    ::-webkit-scrollbar-thumb:hover {
        background: #555;
    }
    .total {
        font-size: 20px;
        color: #6e1919;
    }
    .input-search {
        padding: 6px;
        margin-bottom: 5px;
        font-size: 15px;
        border: #6e1919 2px solid;
    }
    .search {
        padding: 6px 10px;
        margin-bottom: 5px;
        background: #6e1919;
        font-size: 15px;
        border: none;
        cursor: pointer;
        color: #f0e6da;
    }
    .search:hover {
        background: #ccc;
    }

```

```
.file-upload {  
    margin-bottom: 10px;  
}  
.file-upload p{  
    color: #976c62;  
    text-align: center;  
    font-size: 15px;  
}  
.modal {  
position: fixed;  
top:0%;  
left: 0;  
z-index: 1055;  
display: none;  
width: 100%;  
height: 100%;  
overflow-x: hidden;  
overflow-y: auto;  
outline: 0;  
background-color:    rgb(0,0,0); /*  
Fallback color */  
background-color:  rgba(0,0,0,0.4); /*  
Black w/ opacity */  
-webkit-animation-name: fadeIn; /*  
Fade in the background */  
-webkit-animation-duration: 0.4s;  
animation-name: fadeIn;  
animation-duration: 0.4s  
}  
.modal-header {  
padding: 2px 16px;  
background-color: #6d1919;  
}  
.close{  
color: white !important;  
font-size: 1.5rem !important;  
float: right !important;  
}  
.close:hover,  
.close:focus {  
color: #000 !important;  
text-decoration: none;  
cursor: pointer;  
}  
/* Modal Body */  
.modal-body {  
padding: 16px 16px;  
}  
/* Modal Content */  
.modal-content {  
top: 15%;  
position: relative;  
background-color: #fefefe;  
margin: auto;  
padding: 0;  
width: 30%;  
box-shadow: 0 4px 8px 0  
rgba(0,0,0,0.2), 6px 20px 0  
rgba(0,0,0,0.19);  
animation-name: animatetop;  
animation-duration: 0.4s  
}  
/* Add Animation */  
@keyframes animatetop {  
from {top: -300px; opacity: 0}  
to {top: 0; opacity: 1}  
}  
@-webkit-keyframes fadeIn {  
from {opacity: 0}  
to {opacity: 1}  
}  
@keyframes fadeIn {  
from {opacity: 0}  
to {opacity: 1}  
}  
#btn5{  
background-color: #d3d3d3 !important;  
color: #6d1919;  
padding: 5px;  
border: none;  
margin-bottom: 5px;  
}  
.btn4 {  
background-color: transparent;  
color: #976c62;  
border: none;  
font-size: 70px;  
margin: 0px 0px;  
text-align: center;  
margin: auto;  
width: 100%;  
}  
#account-header h3 {  
font-weight: bold;  
color:#6e1919;  
}  
.data1 {  
margin-bottom: 5px;  
}  
.data1 label{  
font-size: 15px;  
color:#6e1919;  
}  
.data1 input{  
height: 35px;  
width: 300px;  
padding-left: 10px;  
font-size: 15px;  
border: 1px solid #6e1919;  
color: #976c62;  
}  
#coldepartment1 {  
font-size: 15px;  
color:#6e1919;  
}  
#coe-dept1 {  
height: 30px;  
width: 100%;  
padding-left: 10px;  
font-size: 15px;  
border: 1px solid #6e1919;  
color: #976c62;  
}  
.close3{  
background-color: #6e1919 !important;  
color: #f0e6da;  
padding: 5px;  
border: none;  
margin-bottom: 5px;  
}  
.data2 {  
margin-bottom: 5px;  
}  
data2 label{  
font-size: 15px;  
color:#6e1919;  
}  
.data2 input{  
height: 30px;  
width: 100%;  
padding-left: 10px;  
font-size: 15px;  
border: 1px solid #6e1919;  
color: #976c62;  
}
```

```

.final-container {
  width: 100%;
  padding: 40px;
  background-color: white;
  border-color: #6d1919;
}

.container2ii {
  width: 100%;
  padding: 10px 0px;
  background-color: white;
  border-color: #6d1919;
  display: flex;
  flex-direction: row;
  flex-wrap: wrap;
  justify-content: space-between;
  align-items: flex-start;
}

.profile-container {
  display: flex;
  justify-content: center;
  align-items: center;
  align-content: flex-start;
  margin: 0px 25px;
}

.profile-container1 h3 {
  font-weight: bold;
  color: #6e1919;
}

.profile-photo {
  overflow-y: scroll;
  height: 300px;
  width: 250px;
  border: 2px solid #6e1919;
}

.profile-settings {
  max-width: 350px;
}

.btn3 {
  margin-top: 10px;
}

.profile-photo table {
  border-collapse: collapse;
  border-spacing: 0;
  width: 100%;
  border: 1px solid #ddd;
}

.profile-photo th, .profile-photo td {
  text-align: center;
  padding: 10px;
  color: #6e1919;
}

.profile-photo tr:nth-child(even) {
  background-color: #f0e6da;
}

#generate {
  float: left;
}

#send {
  float: right;
}

@media screen and (max-width: 100px){
  .profile-container{
    margin: 8% auto;
  }

  .container2ii {
    flex-direction: column;
    justify-content: space-around;
    align-items: center;
  }
}

.modal2 {
  position: fixed;
  top: 0%;
  left: 0;
  z-index: 1055;
  display: none;
  width: 100%;
  height: 100%;
  overflow-x: hidden;
  overflow-y: auto;
  outline: 0;
  background-color: rgb(0,0,0); /* Fallback color */
  background-color: rgba(0,0,0,0.4); /* Black w/ opacity */
}

.modal2:fadeIn {
  -webkit-animation-name: fadeIn; /* Fade in the background */
  -webkit-animation-duration: 0.4s;
  animation-name: fadeIn;
  animation-duration: 0.4s
}

.modal-header3 {
  padding: 2px 16px;
  background-color: #6d1919;
  height: 40px;
}

/* Modal Body */
.modal-body3 {
  padding: 16px 16px;
}

/* Modal Content */
.modal-content3 {
  top: 15%;
  position: relative;
  background-color: #fefefe;
  margin: auto;
  padding: 0;
  width: 30%;
  height: 280px;
  box-shadow: 0 4px 8px 0
  rgba(0,0,0,0.2), 6px 20px 0
  rgba(0,0,0,0.19);
  animation-name: animatetop;
  animation-duration: 0.4s
}

</style>
<style>
/*ADJUSTMENTS IN THE NAVBAR*/
@media screen and (max-width: 600px){

  .navbar {
    height: 40px;
    font-size: 1.2rem;
    position: sticky !important;
  }

  .navbar__container {
    display: flex;
    justify-content: space-between;
    height: 100px;
    z-index: 1;
    width: 100%;
    max-width: 1300px;
    margin: 0 auto;
    padding: 0 ;
  }

  .nbclogo img{
    width: 47px;
    height: 53px;
    top: -8px !important;
    left: 10px !important;
  }

  #navbar__logo {
    font-size: 20px;
    left: 65px !important;
    height: 20px;
  }

  .navbar__menu.active {
    font-size: 1rem;
  }

  #mobile-menu{
    top: 0px;
  }
}

```

```

        }
    body {
        background-image:
url(bg1.jpg);
        background-position: center;
        background-size: cover;
        background-repeat: no-repeat;
        background-attachment: fixed;
    }
/*      ADJUSTMENTS      FOR
CONTAINER 1 TO DISAPPEAR */
@media screen and (max-width:
600px){
    body{
        background-image: none;
    }
#container1{
    display: none;
}
#container2Inside i{
    font-size: 80px;
}
#container2InsideHeading{
    width: 73%;
    height: 100%;
    justify-content: center;
    font-size: 12px;
}
.h2,h2{
    font-size: 25px;
}
.search {
font-size: 10px;
padding: 2px 5px;
margin-bottom: 0px !important;
}
.search-input{margin-right: 0px;}
th, td{font-size: 10px}
/* NEW - NAVBAR MENU */
.navbar__links {
text-align: center;
padding: 0.5rem;
width: 100%;
display: table;
}
.linkk-item{
    display: none;
}
.linkk-item{
    padding: 5px 20px;
}
.navbar__item {
height: 53px;
}
@media screen and (max-width:
600px){
    .linkk-item{
        display: unset !important;
    }
}
/* ADJUSTMENTS PER PAGE */
@media screen and (max-width:
600px){
    #import-header h1{
        font-size:30px;
    }
    #navbar__logo{
        top: 10px !important;
    }
}

```

```

        }
#notification{
    margin-top: -34px !important;
}
.total{
    font-size: 12px;
margin-right: 3px !important;
}
.users-div span{
    font-size: 5px;
margin-left: 0px;
padding-left: 0px;
}
.btn2 {
    font-size: 15px;
margin: 0px 5px;
}
.input-search {
padding: 6px;
margin-bottom: 5px;
font-size: 5px;
border: #6e1919 2px solid;
}
.modal-content {
top: 15%;
position: relative;
background-color: #fefefe;
margin: auto;
padding: 0;
width: 75%;
box-shadow: 0 4px 8px 0
rgba(0,0,0,0.2),0 6px 20px 0
rgba(0,0,0,0.19);
animation-name: animatetop;
animation-duration: 0.4s
}
.modal-content1 {
top: 15%;
position: relative;
background-color: #fefefe;
margin: auto;
padding: 0;
width: 90%;
box-shadow: 0 4px 8px 0
rgba(0,0,0,0.2),0 6px 20px 0
rgba(0,0,0,0.19);
animation-name: animatetop;
animation-duration: 0.4s
}
.modal-content2 {
top: 15%;
position: relative;
background-color: #fefefe;
margin: auto;
padding: 0;
width: 75%;
height: 300px;
box-shadow: 0 4px 8px 0
rgba(0,0,0,0.2),0 6px 20px 0
rgba(0,0,0,0.19);
animation-name: animatetop;
animation-duration: 0.4s
}
.modal-content3 {
top: 15%;
position: relative;
background-color: #fefefe;
margin: auto;
padding: 0;
width: 70%;
height: 300px;
box-shadow: 0 4px 8px 0
rgba(0,0,0,0.2),0 6px 20px 0
rgba(0,0,0,0.19);
animation-name: animatetop;
animation-duration: 0.4s
}

```

```

height: 300px;
box-shadow: 0 4px 8px 0
rgba(0,0,0,0.2),0 6px 20px 0
rgba(0,0,0,0.19);
animation-name: animatetop;
animation-duration: 0.4s
}
.profile-photo table{
height: 180px;
width: 230px;
}
.profile-settings{
margin-top: 25px;
}
.data1 label{
font-size: 15px;
color:#6e1919;
}
.data1 input{
height: 30px;
width: 100%;
padding-left: 10px;
font-size: 15px;
border: 1px solid #6e1919;
color: #976c62;
}
.btn1 {
font-size: 12px;
}
#generate{
margin-right: 20px;
}
.profile-photo{
height: 180px;
width: 230px;
align-items: center;
}
</style>
</head>
<body>
<!-- Navigation Bar Section -->
<div class="full-page">
    <nav class="navbar">
        <div class="navbar__container">
            <div class="nbclogo">
                
            </div>
            <a href="#home"
id="navbar__logo"
style="position:absolute; left:100px;
top:5px">NBC2 iPromote</a>
            <div class="navbar__toggle"
id="mobile-menu">
                <span class="bar"></span>
                <span class="bar"></span>
                <span class="bar"></span>
            </div>
            <ul class="navbar__menu">
                <li class="navbar__item">
                    <a href="adminprofilesetting.php"
class="navbar__links" id="profile-
page"><img src=<?php echo
$defaultImg; ?>" class="profile-img"
style="width: 40px; height: 40px; border-

```

```

radius: 50%; "><span style="margin-right: 15px"></span>Profile</a>
            </li>
            <li class="navbar__item">
                <a href="adminhelp.php" class="navbar__links" id="admin-page" style="padding: 11px !important;">FAQs</a>
            </li>
            <li class="linkk-item" >
                <a href="adminprofile.php" class="navbar__links" id="adminprofile" >Home</a>
            </li>
            <li class="linkk-item" >
                <a href="Training.php" class="navbar__links" id="TrainingView" >Training View</a>
            </li>
            <li class="linkk-item" >
                <a href="Users.php" class="navbar__links" id="UsersView" >Users View</a>
            </li>
            <li class="linkk-item" >
                <a href="pendingfiles.php" class="navbar__links" id="UsersView" >Pending Files</a>
                <span id="notification" style="float: right; background-color:#f0e6da; border-radius: 5px; color:#6d1919 ; padding: 5px 10px 8px 10px; font-size: 12px; margin-top: 0px;"><?php echo $rowCount1; ?></span>
            </li>
            <li class="linkk-item" >
                <a href="validation.php" class="navbar__links" id="UsersView" >Validation</a>
            </li>
            <li class="linkk-item" >
                <a href="Includes/logout-admin.inc.php" class="navbar__links" id="logoutBtn" >Logout</a>
            </li>
            <?php
            if ($_SESSION['username'] == '4sight'){
                echo '<li class="navbar__item">
                    <a href="adminpanel.php" class="navbar__links" id="profile-page">Admin Panel</a>
                </li>';
            }
            ?>
        </ul>
    </div>
    <nav>
        <div id="containerProfile">
            <div id="container1">
                <div id="containerLogo">
                    
                </div>
            <ul class="links">

```

```

                <li class="link-item" >
                    <a href="adminprofile.php" id="adminprofile" >Home</a>
                </li>
                <li class="link-item" >
                    <a href="Training.php" id="TrainingView" >Training View</a>
                </li>
                <li class="link-item" style="background-color: #6d1919;" style="color:#f0e6da">
                    <a href="Users.php" id="UsersView" >Users View</a>
                </li>
                <li class="link-item" >
                    <a href="pendingfiles.php" id="UsersView" >Pending Files</a>
                    <span id="notification" style="float: right; background-color:#6d1919; border-radius: 5px; color:#f0e6da; padding: 5px 10px 8px 10px; font-size: 12px; margin-top: 0px;"><?php echo $rowCount1; ?></span>
                </li>
                <li class="link-item" >
                    <a href="validation.php" id="UsersView" >Validation</a>
                </li>
                <li class="link-item" >
                    <a href="Includes/logout-admin.inc.php" id="logoutBtn" >Logout</a>
                </li>
            </ul>
        </div>
        <div id="container2i">
            <div id="import-header">
                <h1>Users View</h1>
            </div>
            <div class="container-files">
                <div class="users-tab">
                    <div class="users-div">
                        <form action="Includes/users.inc.php" method="post" enctype="multipart/form-data" name="usertable">
                            <div>
                                <label class="total" style="margin-right: 15px;">Total: <?php echo $rowCount; ?></label>
                                <span style="font-size: 30px; font-weight: 100; color: #6e1919;"></span>
                                <button type="submit" class="btn2" name="delete" id="delete" hidden></button>
                                <button type="button" class="btn2" id="conf-del" title="Delete User"><i class="fas fa-trash-alt" /></button>
                                <button type="button" class="btn2" name="add" id="addNew" title="Add a New User"><i class="fas fa-user-plus" /></button>
                                <input type="text" placeholder="Search.." name="search-input" class="input-search">

```

```

                            <button type="submit" name="search" class="search" ><i class="fa fa-search" /></button>
                            <button type="button" class="btn2" name="send-email" id="send-email" title="Invite to Join"><i class="fas fa-envelope" /></button>
                        </?php
                        if($_SESSION['username'] == '4sight'){
                            echo "<button type='button' class='btn2' name='add-admin' id='add-admin' title='Add an admin!'"><i class='fas fa-id-card' /></button>" ;
                        } ?>
                    <div class="users-table">
                        <table>
                            <tr>
                                <th></th>
                                <th>First Name</th>
                                <th>Last Name</th>
                                <th>Email</th>
                                <th>Department</th>
                                <th>Pseudocode</th>
                                <th>Total Points</th>
                                <th>Rank</th>
                            <tr>

```

```

                                <?php
                                if(isset($_SESSION['username'])){
                                    if($_SESSION['username'] == '4sight'){
  include_once 'server.php';
  $sql1 = "SELECT * FROM users";
  $stmt1 = mysqli_stmt_init($conn);
  if (!mysqli_stmt_prepare($stmt1, $sql1)){
  header("location: Users.php?error=stmtfailed");
  exit();
  } else {
  mysqli_stmt_execute($stmt1);
  $result = mysqli_stmt_get_result($stmt1);
  while ($row = mysqli_fetch_assoc($result)) {
  $sql1 = "SELECT * FROM totalpointsandrank WHERE email=?";
  $stmt1 = mysqli_stmt_init($conn);
  if (!mysqli_stmt_prepare($stmt1, $sql1)){
  header("location: Users.php?error=stmtfailed");
  exit();
  } else {
  $email1 = $row['email'];
  mysqli_stmt_bind_param($stmt1, "s", $email1);
  mysqli_stmt_execute($stmt1);
  $result1 = mysqli_stmt_get_result($stmt1);

```



```

Delete?
</div>
<div class="modal-body3">
<form method="POST"
action="Includes/adduser.inc.php">
    <div class="file-upload">
        <button class="btn4"
disabled><i class="fas fa-exclamation-triangle"></i></button>
        <br>
        <p>Are you sure you
want to delete the following user/s? This
action cannot be undone!</p>
    </div>
    <div class="btn3">
        <button type="button"
class="btn1" id='conf'
style="float:right">Confirm</button>
        <button type="button"
class="close3" id='btn5'
style="float:right; margin-
right:10px;">Cancel</button>
    </div>
</form>
</div>
</div>
</div>
<div id="myModal1" class="modal1">
    <div class="modal-content1">
        <div class="modal-header">
            <span
class="close1">&times;</span>
        </div>
        <div class="modal-body1">
            <div class="container2ii">
                <div class="profile-container">
                    <div class="full-container"
style="text-align:center">
                        <div class="profile-
container1">
                            <h3>Pseudocode
List</h3>
                            <div>
                                <div class="profile-photo"
style="text-align:center">
                                    <table width="250px">
  <?php
if(isset($_SESSION['username'])) {
                            include_once
'server.php';
                            function
noMatchPseudo($conn, $pseudo) {
                                $sql = "SELECT *
FROM pseudo_inv WHERE pseudocode
= ?;";
                                $stmt = mysqli_stmt_init($conn);
                                if
(!mysqli_stmt_prepare($stmt, $sql)) {
                                    header("location:
../register.php?error=stmtfailed");
                                    exit();
                                }
                                mysqli_stmt_bind_param($stmt,
"$s",
$pseudo);
                                mysqli_stmt_execute($stmt);
                                $resultData = mysqli_stmt_get_result($stmt);
                                mysqli_stmt_free_result($stmt);
                            }
                            if ($row = mysqli_fetch_assoc($resultData)) {
                                return $row;
                            } else {
                                $result = false;
                                return $result;
                            }
                        }
                        mysqli_stmt_close($stmt);
                    </div>
                </div>
            </div>
        </div>
        <div class="pseudocodedb">
            <?php
if(mysqli_stmt_prepare($stmt, $sql)){
    header("location:
Users.php?error=stmtfailed");
    exit();
} else {
    mysqli_stmt_execute($stmt);
    $result = mysqli_stmt_get_result($stmt);
    while ($row = mysqli_fetch_assoc($result)) {
        foreach($row as
$pseudo){
            if(noMatchPseudo($conn, $pseudo) !==
false){
                $none = 0;
            } else{
                echo '<tr>
<td>'.$row['pseudocodedb'].'</td>
</tr>';
            }
        }
    }
}
            <?>
            </table>
        </div>
        </div>
        <div class="profile-container">
            <div class="profile-settings" >
                <div id="account-header"
style="text-align: center">
                    <h3>Email
Pseudocode</h3>
                    </div>
                    <form method="POST"
action="Includes/adduser.inc.php">
                        <hr>
                        <div class="data1 ">
<label>Email</label><br>
                        <input type="email"
name="email" required>
                        </div>
                        <div class="data1 ">
<label>Pseudocode</label><br>
<input type="text"
name="pseudocode" id="myInput"
required>
                        </div>
                    </form>
                </div>
            </div>
        </div>
    </div>
</div>
<script>
    var modal = document.getElementById("myModal");
    var btn = document.getElementById("addNew");
    var span = document.getElementsByClassName("close")[0];
    span.onclick = function() {
        modal.style.display = "block";
    }
    btn.onclick = function() {
        modal.style.display = "none";
    }
    window.onclick = function(event) {
        if (event.target == modal) {
            modal.style.display = "none";
        }
    }
</script>
<script>
    var modal1 = document.getElementById("myModal1");
    
```

```

var btn1 = <script>
document.getElementById("send-email");
var span1 = document.getElementsByClassName("close")[0];
btn1.onclick = function() {
modal1.style.display = "block";
}
span1.onclick = function() {
modal1.style.display = "none";
}
window.onclick = function(event) {
if (event.target == modal1) {
modal1.style.display = "none";
}
}
</script>
<script>
var modal3 = document.getElementById("myModal3");
var btn3 = document.getElementById("conf-del");
var span3 = document.getElementsByClassName("close3")[0];
btn3.onclick = function() {
modal3.style.display = "block";
}
span3.onclick = function() {
modal3.style.display = "none";
}
window.onclick = function(event) {
if (event.target == modal3) {
modal3.style.display = "none";
}
}
</script>
<script>
var modal2 = document.getElementById("myModal2");
var btn2 = document.getElementById("add-admin");
var span2 = document.getElementsByClassName("close2")[0];
btn2.onclick = function() {
modal2.style.display = "block";
}
span2.onclick = function() {
modal2.style.display = "none";
}
window.onclick = function(event) {
if (event.target == modal2) {
modal2.style.display = "none";
}
}
</script>
<script>
const realFileBtn = document.getElementById("delete");
const customBtn = document.getElementById("conf");
customBtn.addEventListener("click", function() {
realFileBtn.click();
});
</script>

<script>
function generateCode() {
var text = "";
var possible = "ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";
for (var i = 0; i < 5; i++) {
text += possible.charAt(Math.floor(Math.random() * possible.length));
}
document.getElementById("myInput").value = text;
return false;
}
</script>
<script src="app.js"></script>
<script>
$("#notification").filter(function(){
return $(this).text().trim() === "0";
}).hide();
</script>
</body>
</html>

validation.php
<?php
session_start();
$defaultImg = $_SESSION['profileImg'];
$userdepartment = $_SESSION['department'];
include_once 'server.php';
$status1 = "PENDING (DNWC)";
$status2 = "PENDING (NNF)";
if (isset($_SESSION['username'])) {
if ($_SESSION['username'] == 'sight') {
$sql21 = "SELECT COUNT(*) FROM userarchive WHERE (pdf_status='$status1' OR pdf_status='$status2')";
$result21=mysqli_query($conn,$sql21);
$rowCount=mysqli_fetch_row($result21)[0];
} else {
$sql21 = "SELECT COUNT(*) FROM userarchive WHERE department='$userdepartment' AND (pdf_status='$status1' OR pdf_status='$status2')";
$result21=mysqli_query($conn,$sql21);
$rowCount=mysqli_fetch_row($result21)[0];
}
?>
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>NBC2 iPromote</title>
<link rel="icon" type="image/png" href="favicon.png">
<link rel="stylesheet" href="https://pro.fontawesome.com/releases/v5.10.0/css/all.css" integrity="sha384-YmEC3Yw5cVb3ZcuHtOA93w35dYT svhLPVnYs9eStHfGjvOvKxViELGroG kvsg+p" crossorigin="anonymous"/>
<link rel="stylesheet" href="style.css" />
<link rel="stylesheet" href="scroll.css" />
<script src="https://ajax.googleapis.com/ajax/libs/jquery/2.1.1/jquery.min.js"></script>
<link href="https://cdn.rawgit.com/mfd/09b70eb47474836f25a21660282ce0fd/raw/e06a670afcb2b861ed2ac4a1ef752d062ef6b46b/Gilroy.css" href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css" integrity="sha384-KyZXAg3QhqLMpG8r+8fhAXLRk2vv oC2f3B09zVXn8CA5QIVfZOJ3BCsw2P0pWe" crossorigin="anonymous"/>
<style>
.parag {
color: #6d1919;
background-color: #f0e6da;
font-size: 13px;
text-align: justify;
padding: 5px;
}
.users-tab {
overflow-y: scroll;
height:300px;
border: 2px #6e1919 solid;
}
#editTrain {
margin-top: 10px;
}
.buttonedit {
float: right;
}
.users-div1 {
overflow-y: scroll;
height:300px;
border: 2px #6e1919 solid;
}
#co-e-dept2 {
background-color: transparent;
color: #6e1919;
border: none;
font-weight: normal;
width: auto;
}
.txtField {
background-color: transparent;
color: #6e1919;
border: none;
font-weight: normal;
width: auto;
}
table {
border-collapse: collapse;
border-spacing: 0;
width: 100%;
}
th {
text-align: center;
padding: 8px;
color: #6e1919;
font-weight: bold;
font-size: 15px;
}

```

```

        }
        td {
        text-align: left;
        padding: 8px;
        color: #6e1919;
        font-weight: normal;
        font-size: 15px;
        }
        tr:nth-child(even){background-color: #f0e6da}
        .data2 {
        margin-bottom: 5px;
        }
        .btn3{
        margin-top: 10px;
        }
        .btn11{
        background-color: #6e1919 !important;
        color: #f0e6da;
        padding: 5px;
        border: none;
        margin-bottom: 5px;
        width:50px;
        }
        .data2 label{
        font-size: 15px;
        color:#6e1919;
        }
        .data2 input{
        height: 30px;
        width: 100%;
        padding-left: 10px;
        font-size: 15px;
        border: 1px solid #6e1919;
        color: #976c62;
        }
        .modal1 {
        position: fixed;
        top:0%;
        left: 0;
        z-index: 1055;
        display: none;
        width: 100%;
        height: 100%;
        overflow-x: hidden;
        overflow-y: auto;
        outline: 0;
        background-color: rgb(0,0,0); /* Fallback color */
        background-color: rgba(0,0,0,0.4); /* Black w/ opacity */
        -webkit-animation-name: fadeIn; /* Fade in the background */
        -webkit-animation-duration: 0.4s;
        animation-name: fadeIn;
        animation-duration: 0.4s
        }
        .container2ii {
        width: 100%;
        background-color: white;
        display: flex;
        flex-direction:row;
        flex-wrap:wrap;
        justify-content: center;
        align-items: flex-start;
        margin-left: 10px;
        }
        .profile-container {
        display: flex;
        justify-content: center;
        align-items: center;
        align-content: flex-start;
        margin: 0px 25px;
        }
        .iframe-container {
        max-width: 1000px;
        }
        #decline {
        float: left;
        }
        #update {
        float: right;
        }
        .profile-settings{
        max-width: 300px;
        }
        #account-header h5{
        font-weight: bold;
        color:#6e1919;
        }
        .data1 {
        margin-bottom: 5px;
        }
        .data1 label{
        font-size: 15px;
        color:#6e1919;
        }
        .btn6{
        background-color: black !important;
        color: #f0e6da;
        padding: 5px;
        border: none;
        margin-bottom: 5px;
        }
        .btn7{
        background-color: transparent !important;
        color: #6e1919;
        font-weight: normal;
        padding: 0px;
        border: none;
        margin: 0px;
        text-align: left;
        }
        .btn7:hover{
        text-decoration: underline;
        }
        .data1 input{
        height: 35px;
        width: 300px;
        padding-left: 10px;
        font-size: 15px;
        border: 1px solid #6e1919;
        color: #976c62;
        }
        .modal-header {
        padding: 2px 16px;
        background-color: #6d1919;
        }
        .close1{
        color: white !important;
        font-size: 1.5rem !important;
        float: right !important;
        }
        .close1:hover,
        .close1:focus {
        color: #000 !important;
        text-decoration: none;
        cursor: pointer;
        }
        /* Modal Body */
        .modal-body1 {
        padding: 16px 16px;
        }
        /* Modal Content */
        .modal-content1 {
        top: 12%;
        position: relative;
        background-color: #fefefe;
        margin: auto;
        padding: 0;
        width: 90%;
        box-shadow: 0 4px 8px 0 rgba(0,0,0,0.2), 0 6px 20px 0 rgba(0,0,0,0.19);
        animation-name: animatetop;
        animation-duration: 0.4s
        }
        iframe-container iframe {
        display: block;
        width: 700px;
        height: 70vh;
        max-width: 700px;
        margin: 0;
        padding: 0;
        border: 0 none;
        box-sizing: border-box;
        }
        /* Add Animation */
        @keyframes animatetop {
        from {top: -300px; opacity: 0}
        to {top: 0; opacity: 1}
        }
        @-webkit-keyframes fadeIn {
        from {opacity: 0}
        to {opacity: 1}
        }
        @keyframes fadeIn {
        from {opacity: 0}
        to {opacity: 1}
        }
        .modal5 {
        position: fixed;
        top:0%;
        left: 0;
        z-index: 1055;
        display: none;
        width: 100%;
        height: 100%;
        overflow-x: hidden;
        overflow-y: auto;
        outline: 0;
        background-color: rgb(0,0,0); /* Fallback color */
        background-color: rgba(0,0,0,0.4); /* Black w/ opacity */
        -webkit-animation-name: fadeIn; /* Fade in the background */
        -webkit-animation-duration: 0.4s;
        animation-name: fadeIn;
        animation-duration: 0.4s
        }
        .modal-header {
        padding: 2px 16px;
        background-color: #6d1919;
        }
        .close5{
        color: white !important;
        font-size: 1.5rem !important;
        }
    
```

```

        float: right !important;
    }
.close5:hover,
.close5:focus {
    color: #000 !important;
    text-decoration: none;
    cursor: pointer;
}
/* Modal Body */
.modal-body5 {
    padding: 16px 16px;
}
/* Modal Content */
.modal-content5 {
    top: 12%;
    position: relative;
    background-color: #fefefe;
    margin: auto;
    padding: 0;
    width: 60%;
    box-shadow: 0 4px 8px 0
    rgba(0,0,0,0.2),0 6px 20px 0
    rgba(0,0,0,0.19);
    animation-name: animatetop;
    animation-duration: 0.4s
}
.iframe-container1 {
    max-width: 1000px;
}
.iframe-container1 iframe {
    display: block;
    width: 700px;
    height: 70vh;
    max-width: 700px;
    margin: 0;
    padding: 0;
    border: 0 none;
    box-sizing: border-box;
}
.modal3 {
    position: fixed;
    top:0%;
    left: 0;
    z-index: 1055;
    display: none;
    width: 100%;
    height: 100%;
    overflow-x: hidden;
    overflow-y: auto;
    outline: 0;
    background-color:    rgb(0,0,0); /* Fallback color */
    background-color:  rgba(0,0,0,0.4); /* Black w/ opacity */
    -webkit-animation-name: fadeIn; /* Fade in the background */
    -webkit-animation-duration: 0.4s;
    animation-name: fadeIn;
    animation-duration: 0.4s
}
.modal-header3 {
    padding: 2px 16px;
    background-color: #6d1919;
    height: 40px;
}
/* Modal Body */
.modal-body3 {
    padding: 16px 16px;
}
/* Modal Content */
.modal-content3 {
    top: 15%;
    position: relative;
    background-color: #fefefe;
    margin: auto;
    padding: 0;
    width: 30%;
    height: 300px;
    box-shadow: 0 4px 8px 0
    rgba(0,0,0,0.2),0 6px 20px 0
    rgba(0,0,0,0.19);
    animation-name: animatetop;
    animation-duration: 0.4s
}
.btn4 {
    background-color: transparent;
    color: #976c62;
    border: none;
    font-size: 70px;
    margin: 0px 0px;
    text-align: center;
    margin: auto;
    width: 100%;
}
#btn5{
background-color: #d3d3d3 !important;
color: #6d1919;
padding: 5px;
border: none;
margin-bottom: 5px;
}
.file-upload {
    margin-bottom: 10px;
}
.file-upload p{
    color: #976c62;
    text-align: center;
    font-size: 15px;
}
::-webkit-scrollbar {
    width: 10px;
}
::-webkit-scrollbar-track {
    background: #ffff;
}
::-webkit-scrollbar-thumb {
    background: #6e1919;
}
::-webkit-scrollbar-thumb:hover {
    background: #555;
}
#colddepartment1 {
    font-size: 15px;
    color:#6e1919;
}
.coe-dept1 {
    height: 30px;
    width: 100%;
    padding-left: 10px;
    font-size: 15px;
    border: 1px solid #6e1919;
    color: #976c62;
}
</style>
<style>
/*ADJUSTMENTS IN THE NAVBAR*/
    @media screen and (max-width: 600px){
        .navbar {
            height: 40px;
            font-size: 1.2rem;
            position: sticky !important;
        }
        .navbar__container {
            display: flex;
            justify-content: space-between;
            height:100px;
            z-index: 1;
            width: 100%;
            max-width: 1300px;
            margin: 0 auto;
            padding: 0 ;
        }
        .nbclogo img{
            width: 47px;
            height: 53px;
            top: -8px !important;
            left: 10px !important;
        }
        #navbar__logo {
            font-size: 20px;
            left: 65px !important;
            height: 20px;
        }
        .navbar__menu.active {
            font-size: 1rem;
        }
        #mobile-menu{
            top: 0px;
        }
        body {
            background-image:
            url(bgl.jpg);
            background-position: center;
            background-size: cover;
            background-repeat: no-repeat;
            background-attachment: fixed;
        }
        /* ADJUSTMENTS FOR CONTAINER 1 TO DISAPPEAR */
        @media screen and (max-width: 600px){
            body{
                background-image: none;
            }
            #container1{
                display: none;
            }
            #container2Inside i{
                font-size: 80px;
            }
            #container2InsideHeading{
                width: 73%;
                height: 100%;
                justify-content: center;
                font-size: 12px;
            }
            .h2,h2{
                font-size: 25px;
            }
        }
        /* NEW - NAVBAR MENU */
        .navbar__links {
            text-align: center;
            padding: 0.5rem;
            width: 100%;
            display: table;
        }
    }

```

```

.linkk-item{
    display: none;
}
.linkk-item{
    padding: 5px 20px;
}
.navbar_item {
    height: 53px;
}
@media screen and (max-width: 600px){
    .linkk-item{
        display: unset !important;
    }
    /* ADJUSTMENTS PER PAGE */
    @media screen and (max-width: 600px){
        #import-header h1{
            font-size:30px;
        }
        #navbar_logo{
            top: 10px !important;
        }
        #notification{
            margin-top: -34px !important;
        }
    }
}
</style>
</head>
<body>
    <!-- Navigation Bar Section -->
    <div class="full-page">
        <nav class="navbar">
            <div class="navbar_container">
                <div class="nbclogo">
                    
                </div>
                <a href="#home" id="navbar_logo" style="position:absolute; left:100px; top:5px">NBC2 iPromote</a>
                <div class="navbar_toggle" id="mobile-menu">
                    <span class="bar"></span>
                    <span class="bar"></span>
                    <span class="bar"></span>
                </div>
                <ul class="navbar_menu">
                    <li class="navbar_item">
                        <a href="adminprofilesetting.php" class="navbar_links" id="profile-page"><img src=<?php echo $defaultImg; ?>" class="profile-img" style="width: 40px; height: 40px; border-radius: 50%;"><span style="margin-right: 15px">Profile</span></a>
                    </li>
                    <li class="navbar_item">
                        <a href="adminhelp.php" class="navbar_links" id="admin-page" style="padding: 11px !important;">FAQs</a>
                    </li>
                    <li class="linkk-item" >

```

```

                <a href="adminprofile.php" class="navbar_links" id="adminprofile">Home</a>
                </li>
                <li class="linkk-item">
                    <a href="Training.php" id="TrainingView">Training View</a>
                </li>
                <li class="linkk-item">
                    <a href="Users.php" id="UsersView">Users View</a>
                </li>
                <li class="linkk-item">
                    <a href="pendingfiles.php" id="UsersView">Pending Files</a>
                </li>
                <li class="linkk-item" style="background-color: #6d1919">
                    <a href="validation.php" id="UsersView" style="color:#f0e6da">Validation</a>
                </li>
                <li class="linkk-item">
                    <a href="Includes/logout-admin.inc.php" id="logoutBtn">Logout</a>
                </li>
            </ul>
        </div>
        <div id="container2i">
            <div id="import-header">
                <h1>Validation Section</h1>
                <h5>Note: This section is intended for evaluating the accuracy of the results generated by the developed system.
                    As a local evaluator, kindly verify the output and classify it into its appropriate category and subcategory if necessary.
                    Any modifications made in this section will not affect the user's summary of points.
                </h5>
            </div>
            <div>
                <?php
                    if ($_SESSION['username'] == '4sight'){
                        echo '<li class="navbar_item">
                            <a href="adminpanel.php" class="navbar_links" id="profile-page">Admin Panel</a>
                            </li>';
                    }
                    ?>
                </ul>
            </div>
            <div id="containerProfile">
                <div id="container1">
                    <div id="containerLogo">
                        
                    </div>
                    <ul class="links">
                        <li class="link-item">
                            <a href="adminprofile.php" id="adminprofile">Home</a>
                        </li>
                        <li class="link-item">
                            <a href="Training.php" id="TrainingView">Training View</a>
                        </li>
                        <li class="link-item">

```

```

                            <a href="Users.php" id="UsersView">Users View</a>
                        </li>
                        <li class="link-item" style="background-color: #6d1919">
                            <a href="validation.php" id="UsersView" style="color:#f0e6da">Validation</a>
                        </li>
                    </ul>
                </div>
                <div>
                    <?php
                        if($_SESSION['username'] == '4sight'){
                            $status1 = "PENDING (DNWC)";
                            $status2 = "PENDING (NNF)";
                            $status3 = "COMPLETED";
                            $sql21 = "SELECT COUNT(*) FROM userarchive WHERE ini_status='$status1'";
                            $result21=mysqli_query($conn,$sql21);
                            $rowCount1=mysqli_fetch_row($result21)[0];
                            $sql22 = "SELECT COUNT(*) FROM userarchive WHERE ini_status='$status2'";
                            $result22=mysqli_query($conn,$sql22);
                            $rowCount2=mysqli_fetch_row($result22)[0];
                            $sql23 = "SELECT COUNT(*) FROM userarchive WHERE ini_status='$status3'";
                        }
                    </div>
                </div>
            </div>
        </div>
    </div>

```



```

?>
    </form>
</table>
</div>
</div>
</div>
</div>
<div id="myModal3" class="modal3">
    <div class="modal-content3">
        <div class="modal-header3" style="color: #f0e6da; align-items:center; padding-top: 5px;; font-size: 20px;">
            Invalid?
        </div>
        <div class="modal-body3">
            <form method="POST" action="Includes/valid.inc.php">
                <div class="file-upload">
                    <button class="btn4" disabled><i class="fas fa-exclamation-triangle"></i></button>
                <br>
                <p>Are you sure that this document in invalid? This action cannot be undone!</p>
            </div>
            <div class="btn3">
                <button type="button" class="btn1" id="conf" style="float:right">Confirm</button>
                <button type="button" class="close3" id="btn5" style="float:right; margin-right:10px;">Cancel</button>
            </div>
            </form>
        </div>
    </div>
</div>
<div id="myModal5" class="modal5">
    <div class="modal-content5">
        <div class="modal-header">
            <span class="close5">&times;</span>
        </div>
        <div class="modal-body5">
            <?php
                $path1 = $_SESSION["path_view"];
                if (isset($_GET["view"])){
                    if ($_GET["view"] == $path1) {
                        echo '<script>';
                        var modal5 = document.getElementById("myModal5");
                        var span5 = document.getElementsByClassName("close5")[0];
                        modal5.style.display = "block";
                        span5.onclick = function() {
                            modal5.style.display = "none";
                        }
                        window.onclick = function(event) {
                            if (event.target == modal5) {
                                modal5.style.display = "block";
                            }
                        }
                    }
                }
            <?php
                $path1 = $_SESSION["path"];
                if (isset($_GET["assign"])){
                    if ($_GET["assign"] == $path) {
                        echo '<script>';
                        var modal1 = document.getElementById("myModal1");
                        var span1 = document.getElementsByClassName("close1")[0];
                        modal1.style.display = "block";
                        span1.onclick = function() {
                            modal1.style.display = "none";
                        }
                        window.onclick = function(event) {
                            if (event.target == modal1) {
                                modal1.style.display = "block";
                            }
                        }
                    }
                }
            <?php
                echo "<script>";
                var modal = document.getElementById("myModal");
                var btn = document.getElementById("viewedit");
                var span = document.getElementsByClassName("close1")[0];
                btn.onclick = function() {
                    modal.style.display = "block";
                }
                span.onclick = function() {
                    modal.style.display = "none";
                }
                window.onclick = function(event) {
                    if (event.target == modal) {
                        modal.style.display = "block";
                    }
                }
            </script>
        </div>
        <div class="container2ii">
            <div class="profile-container">
                <div class="iframe-container1">
                    <iframe src="uploads/<?php echo $path1;?>" type="application/pdf" width="100%" height="100%"></iframe>
                </div></div></div></div></div>
                <div id="myModal1" class="modal1">
                    <div class="modal-content1">
                        <div class="modal-header">
                            <span

```

```

if (event.target == modal) {
    modal.style.display = "none";
}
}
</script>
<script>
    var modal3 = document.getElementById("myModal3");
;
    var btn3 = document.getElementById("conf-del");
    var span3 = document.getElementsByClassName("close3")[0];
    btn3.onclick = function() {
        modal3.style.display = "block";
    }
    span3.onclick = function() {
        modal3.style.display = "none";
    }
    window.onclick = function(event) {
        if (event.target == modal3) {
            modal3.style.display = "none";
        }
    }
</script>
<script>
    const realFileBtn = document.getElementById("decl");
    const customBtn = document.getElementById("conf");
    customBtn.addEventListener("click", function() {
        realFileBtn.click();
    });
</script>
<script>
    const realFileBtn = document.getElementById("viewedit");
    const customBtn = document.getElementById("yes_check");
    customBtn.addEventListener("click", function() {
        realFileBtn.click();
    });
</script>
<script src="app.js"></script>
<script src="dynamic.js">
</script>
<script>
    $("#notification").filter(function(){
        return $(this).text().trim() === "0";
    }).hide();
</script>
</body>
</html>
<?php
} else{
    header("location: index.php?error=notloggedin");
    exit();
}
?>



## Stylesheet (CSS)



### style.css


* {
    box-sizing: border-box;
    margin: 0;
    padding: 0;
    font-family: 'Gilroy';
    font-weight: 800;
    scroll-behavior: smooth;
}
.full-page {
    height: 100%;
    width: 100%;
    position: absolute;
}
body {
    background-image: url(bg1.jpg);
    background-position: center;
    background-size: cover;
    background-repeat: no-repeat;
    background-attachment: fixed;
}
.navbar {
    background: #6d1919;
    height: 60px;
    display: flex;
    justify-content: center;
    align-items: center;
    font-size: 1.2rem;
    position: sticky !important;
    top: 0;
    z-index: 999;
}
.navbar__container {
    display: flex;
    justify-content: space-between;
    height: 60px;
    z-index: 1;
    width: 100%;
    max-width: 1300px;
    margin: 0 auto;
    padding: 0 30px;
}
#navbar__logo {
    background-color: #f0e6da;
    background-size: 100%;
    -webkit-background-clip: text;
    -moz-background-clip: text;
    -webkit-text-fill-color: transparent;
    -moz-text-fill-color: transparent;
    background-clip: text;
    color: transparent;
    display: flex;
    align-items: center;
    cursor: pointer;
    text-decoration: none;
    font-size: 2rem;
}
.navbar__menu {
    display: flex;
    align-items: center;
    list-style: none;
    color: #f0e6da
}
.navbar__item {
    height: 80px;
}
.navbar__links {
    color: #f0e6da;
    display: flex;
    align-items: center;
    justify-content: center;
    width: 90px;
    text-decoration: none;
    height: 100%;
    transition: all 0.3s ease;
}
.navbar__btn {
    display: flex;
    justify-content: center;
    align-items: center;
    padding: 0 1rem;
    width: 100%;
}
.button {
    display: flex;
    justify-content: center;
    align-items: center;
    text-decoration: none;
    padding: 10px 20px;
    height: 100%;
    width: 100%;
    border: none;
    outline: none;
    border-radius: 4px;
    background: #6d1919;
    background: -webkit-linear-gradient(to right, #91645a, #150a08);
    background: linear-gradient(to right, #91645a, #150a08);
    color: #f0e6da;
    transition: all 0.3s ease;
}
.navbar__links:hover {
    color: #150a08;
    transition: all 0.3s ease;
}
@media screen and (max-width: 600px) {
    .navbar__container {
        display: flex;
        justify-content: space-between;
        height: 60px;
        z-index: 1;
        width: 100%;
        max-width: 1300px;
        padding: 0;
    }
    .nbclogo {
        padding: 0px 0px 0px 30px;
    }
    .navbar__menu {
        display: grid;
        grid-template-columns: auto;
        margin: 0;
        width: 100%;
        position: absolute;
        top: -1000px;
        opacity: 1;
        transition: all 0.5s ease;
        z-index: -1;
    }
    .navbar__menu.active {
        background: #6d1919;
        top: 100%;
        opacity: 1;
        transition: all 0.5s ease;
        z-index: 99;
        font-size: 1.6rem;
    }
    .navbar__toggle .bar {
        width: 25px;
        height: 3px;
        margin: 5px auto;
        transition: all 0.3s ease;
    }
}

```

```

background: #f0E6DA;
}
.navbar__item {
width: 100%;
}
.navbar__links {
text-align: center;
padding: 0.5rem;
width: 100%;
display: table;
}
.navbar__btn {
padding-bottom: 2rem;
padding-top: 1rem;
}
.button {
display: flex;
justify-content: center;
align-items: center;
width: 80px;
height: 60px;
margin: 0;
}
#mobile-menu {
position: absolute;
top: 20%;
right: 5%;
transform: translate(5%, 20%);
}
.navbar__toggle .bar {
display: block;
cursor: pointer;
color: #f0E6DA;
}
#mobile-menu.is-active .bar:nth-child(2) {
opacity: 0;
}
#mobile-menu.is-active .bar:nth-child(1) {
transform: rotateY(8px) rotate(45deg);
}
#mobile-menu.is-active .bar:nth-child(3) {
transform: translateY(-8px) rotate(-45deg);
}
.home-container{
height:90vh;
display: flex;
flex-direction:row;
flex-wrap:wrap;
justify-content: space-around;
align-items: center;
}
.header-container {
display: flex;
padding-left: 3%;
padding-right: 3%;
justify-content: center;
align-items: center;
}
#header-container {
width: 40%;
height:100%;
position: absolute;
display: flex;
flex-direction: column;
padding-left: 3%;
justify-content: center;
align-items: center;
}
.welcome-heading {
font-family: 'Gilroy';
color: #6d1919;
font-size: 4rem;
}
.welcome-subheading{
color: #6e1919;
}
.fptext{
color:#91645a;
}
/*-----Login-----*/
#form-box{
overflow:hidden;
margin:10px;
}
.container-login {
background:white;
max-width: 350px;
padding: 10px 30px;
box-shadow:0 0 8px rgba(0, 0, 0, 0.1);
}
hr { display: block;
margin-top: 0.5em;
margin-bottom: 0.5em;
margin-left: auto;
margin-right: auto;
overflow: hidden;
border-top: 5px solid #6e1919;
}
.container-login .text{
font-size: 30px;
font-weight: 800;
color: #6e1919;
text-align:center;
}
.container-login form{
margin-top: -10px;
}
.container-login form .data{
height: 30px;
width: 100%;
margin: 30px 0;
}
.container-login form .fptext{
margin: 30px 0;
}
form .data label{
font-size: 15px;
color:#6e1919;
}
form .data input{
height: 100%;
width: 100%;
padding-left: 10px;
font-size: 15px;
border: 1px solid #976c62;
color: #6e1919;
}
form .forgot-pass{
margin-left: -8px;
}
form .forgot-pass a{
color: #6e1919;
text-decoration: none;
}
form .forgot-pass a:hover{
text-decoration: underline;
}
form .btn{
margin: 30px 0;
height: 30px;
width: 100%;
position: relative;
overflow: hidden;
background: #6e1919;
}
form .btn .inner{
height: 100%;
width: 300px;
position: absolute;
left: -100%;
z-index: -1;
background: #6e1919;
}
form .btn button{
height: 100%;
width: 100%;
background: none;
border: none;
color: #f0E6DA;
font-size: 18px;
text-align: center;
text-transform: uppercase;
letter-spacing: 1px;
}
form .signup-link{
text-align: center;
}
form .signup-link a{
color:#6e1919;
text-decoration: none;
}
form .signup-link a:hover{
text-decoration: underline;
}
.check-box {
margin: 30px 10px 34px 0;
}
span {
color:#91645a;
font-size:12px;
}
#login {
left:50px;
}
#login input {
color:#91645a;
font-size:15;
}
#register {
left:450px;
}
#register input {
color:#91645a;
font-size: 15;
}
#coldepartment {
font-size: 15px;
margin: 10px 0 10px 0;
}

```

```

        color: #6d1919;
    }
    #coe-dept {
        color: #91645a;
        height: 100%;
        width: 100%;
    }
    @media screen and (max-width: 600px){
        .header-container{
            margin: 8% auto;
        }
        .welcome-heading{
            text-align: center;
            font-size: 3rem;
        }
        .welcome-subheading{
            text-align: center;
            font-size: 15px;
        }
        .container-login{
            margin-bottom: 8%;
        }
    }
    /*-----End of Login-----*/
    /*-----About-----*/
    .about-container {
        height: 100%;
        width: 100%;
        background-color: #f0E6DA !important;
        background-attachment: fixed;
        position: fixed;
        top: 0;
        left: 0;
        overflow: auto;
        text-align:center;
    }
    .about-title {
        padding-top: 80px;
        margin: 0 auto;
    }
    .underline {
        height: 5px;
        background: #6d1919;
    }
    .about-heading {
        width: fit-content;
        margin: 0 auto;
    }
    .about-heading h1 {
        font-size: 2.5rem;
        font-family: 'Gilroy';
        color: #6d1919;
    }
    .about-content {
        padding: 0 5%;
        margin: 15px auto;
    }
    .about-content h3 {
        font-family: 'Gilroy';
        text-align: center;
        color: #6e1919;
        margin-bottom: 5px;
    }
    .about-content p {
        font-family: 'Gilroy';
        text-align: justify;
        color: #976c62;
    }
    .font-size: 15px;;
}
    .about-team {
        display: flex;
        justify-content: center;
    }
    .about-team h2 {
        font-size: 1.8rem;
        font-family: 'Gilroy';
        display: flex;
        align-items: center;
        justify-content: center;
        margin-right: 10px;
        color: #6d1919;
    }
    .about-team-profile {
        max-width: 1200px;
        display: flex;
        margin: 0 auto;
        flex-wrap: wrap;
        justify-content: center;
    }
    .circular-img {
        width: 100px;
        height: 100px;
        border-radius: 50%;
        overflow: hidden;
        display:inline-block;
        vertical-align:middle;
        border: 5px solid #6d1919;
    }
    .circular-img img{
        max-width: 100%;
        max-height: 100%;
    }
    .member {
        margin: 10px;
        padding: 22px;
        max-width: 30%;
    }
    .member:hover{
        background-color: #e9dac8;
        border-radius: 12px;
    }
    .member-name {
        font-family: 'Gilroy';
        margin-top: 10px;
        text-align: center;
        color: #6d1919;
        font-size: 16px;
        text-transform: uppercase;
    }
    .member-role{
        text-align: center;
        color: #976c62;
        font-size: 14px;
        font-weight: lighter;
    }
    @media screen and (max-width: 600px){
        .member{
            max-width: 100%;
        }
    }
    /*-----End of About-----*/
    /*-----Profile-----*/
    #containerProfile {
        display: flex;
        position:sticky;
    }
    #container1 {
        width: 30%;
        height: 100vh;
        background-color: #f0E6DA;
    }
    #containerLogo {
        text-align: center;
    }
    #container1 ul {
        Padding: 10px 0px;
        list-style: none;
    }
    .link-item{
        padding: 5px 20px;
    }
    .link-item a {
        color: #6e1919;
        text-decoration-line: none;
        font-weight: bold;
        font-size: 20px;
    }
    .link-item a:hover {
        color: #f0e6da !important;
        cursor: pointer;
    }
    .link-item:hover {
        background-color: #6e1919;
        color: #f0e6da !important;
        transition: all 0.3s ease;
    }
    #profile:hover, #importPdf:hover,
    #employeeCreditView:hover,
    #logoutBtn:hover{
        color: #f0e6da !important;
        transition: all 0.3s ease;
    }
    #profile.active, #importPdf.active,
    #employeeCreditView.active,
    #logoutBtn.active{
        color: #f0e6da;
        transition: all 0.3s ease;
    }
    #container2 {
        width: 100%;
        padding: 80px 40px;
        background-color: white;
        border-color: #6d1919;
    }
    #container2i {
        width: 100%;
        padding: 40px;
        background-color: white;
        border-color: #6d1919;
    }
    #container2Inside {
        display: flex;
        height: 100px;
        position: relative;
    }
    #container2Inside i {
        color: #6e1919;
        font-size: 100px;
    }
    #container2InsideHeading {
        width: 500px;
        position: absolute;
        bottom: 0;
        left: 110px;
        color: #6e1919;
        margin: 0px 10px !important;
    }

```

```

font-family: "Gilroy" !important;
font-weight: bolder !important;
}
.datetime{
color: #6e1919;
font-family: "Gilroy";
}
.date{
color: #6e1919;
font-size: 1.17em;
font-weight: 600;
}
.time{
color: #6e1919;
font-size: 1.17em;
display: flex;
}
.time span:not(:last-child){
position: relative;
font-weight: 600;
}
.time span:last-child{
font-size: 30px;
font-weight: 600;
text-transform: uppercase;
padding: 0 5px;
border-radius: 3px;
}
#today, #dayname, #month, #daynum,
#year, #hour, #minutes, #seconds,
#period{
font-size: 1em;
font-weight: 600;
}
#import-header h1{
color: #6e1919;
font-family: "Gilroy";
font-weight: bolder;
font-size: 40px;
margin-bottom: 15px;
}
/*-----Employee Credit View-----*/
#table1 th, #table1 td{
color: #6e1919;
}
.btn1{
background-color: #6e1919
!important;
color: #f0e6da;
padding: 5px;
border: none;
margin-bottom: 5px;
}
#custom-text {
font-family: "Gilroy";
color: #aaa;
}
/*-----End of Employee Credit View-----*/
/*-----End of Profile-----*/
/*-----Start of Help-----*/
.accordion {
max-width: 900px;
box-shadow: 0 0 10px rgba(0, 0, 0, 0.2);
border-radius: 5px;
overflow: hidden;
font-family: "Gilroy";
background: #6d1919;
}
.accordion__label, .accordion__content {
padding: 14px 20px;
}
.accordion__label {
display: block;
color: #f0e6da;
font-weight: 500;
cursor: pointer;
position: relative;
transition: background 0.1s;
}
.accordion__label:hover {
background: rgba(0, 0, 0, 0.1);
}
.accordion__label::after {
content: "";
position: absolute;
top: 50%;
transform: translateY(-50%);
right: 20px;
width: 12px;
height: 6px;
background-image:
url('data:image/svg+xml;utf8,<svg
width="100" height="50"
xmlns="http://www.w3.org/2000/svg"><
polygon points="0,0 100,0 50,50"
style="fill:%23FFFFFF99;" /></svg>');
background-size: contain;
transition: transform 0.4s;
}
.accordion__content {
background: #ffffff;
line-height: 1.6;
font-size: 0.85em;
display: none;
}
.accordion__input {
display: none;
}
.accordion__input:checked ~ .accordion__content {
display: block;
}
.accordion__input:checked ~ .accordion__label::after {
transform: translateY(-50%) rotate(0.5turn);
}
/*-----End of Help-----*/
.container-files {
margin-top: 0px;
}
/* Style tab links */
.tablink {
background-color: white;
color: #6d1919;
float: left;
border: none;
outline: none;
cursor: pointer;
padding: 11.5px 16px;
font-size: 17px;
width: 25%;
border-radius: 4px 4px 0 0 ;
}
.tablink:hover {
background-color: #e1d1d1;
}
}
/*
Style the tab content (and add
height:100% for full page content) */
.tabcontent {
color: #6d1919;
display: none;
padding: 20px 20px;
height: 80%;
max-height: 80%;
border: 1px #6d1919 solid;
overflow-y: scroll;
animation: fadeEffect 1s;
}
.tabcontent h3 {
font-size: 25px;
font-weight: bolder;
}
/* Go from zero to full opacity */
@keyframes fadeEffect {
from {opacity: 0;}
to {opacity: 1;}
}
.tabcontent table {
border-collapse: collapse;
border-spacing: 0;
width: 100%;
border: 1px solid #ddd;
}
.tabcontent th, .tabcontent td {
text-align: left;
padding: 16px;
}
.tabcontent tr:nth-child(even) {
background-color: #f2f2f2;
}

```

## scroll.css

```

::-webkit-scrollbar {
width: 10px;
}
::-webkit-scrollbar-track {
background: #ffff;
}
::-webkit-scrollbar-thumb {
background: #6e1919;
}
::-webkit-scrollbar-thumb:hover {
background: #555;
}

```

## Javascript Files

### dynamic.js

```

var cars = {
1: ['raw_111|1.1.1 Doctorate Degree ',
"raw_112|1.1.2 Master's Degree ",
'raw_113|1.1.3 LLB and MD',
"raw_114|1.1.4 Diploma Course (Above a Bachelor's Degree)", "raw_115a|1.1.5 a. Bachelor's Degree Four years",
"raw_115b|1.1.5 b. Bachelor's Degree Exceeding four years (45+5 every over 4 years)", 'raw_116a|1.1.6 a. Special Courses 3-years post-secondary course ',
'raw_116b|1.1.6 b. Special Courses Special Courses (Non-degree)',
"raw_121|1.2.1 Additional Degree Master's Degree", "raw_122|1.2.2 Additional Degree Bachelor's Degree",
]
}

```

"raw\_131|1.3.1 For every 3-unit credit earned towards an approved higher degree course"],

2: ['raw\_211|2.1.1 Full-time academic service in a state institution of higher learning', 'raw\_212|2.1.2 Full-time academic service in an institution of higher learning other than SUCs,CHED-Supervised and TESDA Schools',

'raw\_22a|2.2 a. Administrative experience as President', 'raw\_22b|2.2 b. Administrative experience as Vice President', 'raw\_22c|2.2 c. Administrative experience as Dean/Director/School Superintendent', 'raw\_22d|2.2 d. Administrative experience as Principal/Supervisor/Department Chairperson/Head of Unit',

'raw\_231a|2.3.1 a. Professional and technical experience as Manager/Entrepreneur/Consultant', 'raw\_231b|2.3.1 b. Professional and technical experience as Supervisor/Head of Unit', 'raw\_231c|2.3.1 c. Professional and technical experience as Rank and File', 'raw\_232a|2.3.2 a. Experience in the public and private basic institution: Cooperating Teacher',

'raw\_232b|2.3.2 b. Experience in the public and private basic institution: Basic Education Teacher'],

3: ['raw\_311a1i|3.1.1 a. 1. i. Inventions (Philippine IPO registered) Patented (International)', 'raw\_311a1ii|3.1.1 a. 1. ii. Inventions (Philippine IPO registered) Patented (National)', 'raw\_311a1iii|3.1.1 a. 1. iii. Inventions (Philippine IPO registered) Patented (Institutional)', 'raw\_311a2i|3.1.1 a. 2. i. Inventions (Philippine IPO registered) Utility Model (International)', 'raw\_311a2ii|3.1.1 a. 2. ii. Inventions (Philippine IPO registered) Utility Model (National)', 'raw\_311a2iii|3.1.1 a. 2. iii. Inventions (Philippine IPO registered) Utility Model (Institutional)',

'raw\_312a1|3.1.2 a. 1. Published Book as Single Author (Tertiary Level)', 'raw\_312a2|3.1.2 a. 2. Published Book as Single Author (High School Level)', 'raw\_312a3|3.1.2 a. 3. Published Book as Single Author (Elementary Level)', 'raw\_312b1|3.1.2 b. 1. Published Book as Co-author (Tertiary Level)', 'raw\_312b2|3.1.2 a. b. Published Book as Co-author (High School Level)', 'raw\_312b3|3.1.2 b. 3. Published Book as Co-author (Elementary Level)', 'raw\_312c1|3.1.2 c. 1. Published Book as Reviewer (Tertiary Level)', 'raw\_312c2|3.1.2 c. 2. Published Book as Reviewer (High School Level)', 'raw\_312c3|3.1.2 c. 3. Published Book as Reviewer (Elementary Level)', 'raw\_312d1|3.1.2 d. 1. Published Book as Translator (Tertiary Level)',

'raw\_312d2|3.1.2 d. 2. Published Book as Translator (High School Level)', 'raw\_312d3|3.1.2 d. 3. Published Book as Translator (Elementary Level)',

'raw\_312e1|3.1.2 e. 1. Published Book as Editor (Tertiary Level)', 'raw\_312e2|3.1.2 e. 2. Published Book as Editor (High School Level)', 'raw\_312e3|3.1.2 e. 3. Published Book as Editor (Elementary Level)', 'raw\_312f1|3.1.2 f. 1. Published Book as Compiler (Tertiary Level)', 'raw\_312f2|3.1.2 f. 2. Published Book as Compiler (High School Level)', 'raw\_312f3|3.1.2 f. 3. Published Book as Compiler (Elementary Level)', 'raw\_313a|3.1.3 a. Scholarly research/monograph/educational technical article in a technical/scientific/professional journal (International)', 'raw\_313b|3.1.3 b. Scholarly research/monograph/educational technical article in a technical/scientific/professional journal (National)', 'raw\_313c|3.1.3 c. Scholarly research/monograph/educational technical article in a technical/scientific/professional journal (Local)', 'raw\_314|3.1.4 Instructional manual/audio-visual',

'raw\_3211a|3.2.1.1 a. Training course with a duration of at least one month (International)', 'raw\_3211b|3.2.1.1 b. Training course with a duration of at least one month (National)', 'raw\_3211c|3.2.1.1 c. Training course with a duration of at least one month (Local)', 'raw\_3212|3.2.1.2 Certified relevant field training', 'raw\_3213a|3.2.1.3 a. Participation in conferences, seminars, workshops (International)', 'raw\_3213b|3.2.1.3 b. Participation in conferences, seminars, workshops (National)', 'raw\_3213c|3.2.1.3 c. Participation in conferences, seminars, workshops (Local)',

'raw\_3221a|3.2.2.1 a. Serving as short-term consultant/expert in an activity sponsored by government or other agencies (International)', 'raw\_3221b|3.2.2.1 b. Serving as short-term consultant/expert in an activity sponsored by government or other agencies (National)', 'raw\_3221c|3.2.2.1 c. Serving as short-term consultant/expert in an activity sponsored by government or other agencies (Local)', 'raw\_3222a|3.2.2.2 a. For services rendered as trainer, coordinator, etc. in conferences, etc. for professionals (International)', 'raw\_3222b|3.2.2.2 b. For services rendered as trainer, coordinator, etc. in conferences, etc. for professionals (National)',

'raw\_3222c|3.2.2.2 c. For services rendered as trainer, coordinator, etc. in conferences, etc. for professionals (Local)', "raw\_3223a|3.2.2.3 a. For expert services as adviser in Doctoral Dissertation", "raw\_3223b|3.2.2.3 b. For expert services as adviser in Master's Thesis", 'raw\_3223c|3.2.2.3 c. For expert services as adviser in Undergraduate Thesis',

'raw\_3224|3.2.2.4 For certified services as member of the Board of Examiners in the PRC or CSC', 'raw\_3225|3.2.2.5 For expert services in accreditation/quality assurance work as member of the Board of Director, etc. in regional or national agencies', 'raw\_3226|3.2.2.6 Expert service as testing officer/assessor in trade skills certification', "raw\_3227|3.2.2.7 coach/trainer of the students in official activities, and adviser of accredited students' organization", 'raw\_331a1|3.3.1 a. 1. Current individual membership in Learned Society as Full Member', 'raw\_331a2|3.3.1 a. 2. Current individual membership in Learned Society as Associate Member',

'raw\_331b|3.3.1 b. Current individual membership in Honor Society', 'raw\_331c|3.3.1 c. Current individual membership in Scientific Society', 'raw\_331d1|3.3.1 d. 1. Current individual membership in Professional Society as Officer', 'raw\_331d2|3.3.1 d. 2. Current individual membership in Professional Society as Member',

'raw\_3321a|3.3.2.1 a. Undergraduate Degree Academic Honors (Summa cum Laude)', 'raw\_3321b|3.3.2.1 b. Undergraduate Degree Academic Honors (Magna cum Laude)', 'raw\_3321c|3.3.2.1 c. Undergraduate Degree Academic Honors (Cum Laude)', 'raw\_3322|3.3.2.2 Graduate Degree Highest Honors/With Distinction or Equivalent',

'raw\_333a1|3.3.3 a. 1. Scholarship/Fellowship International, competitive in Doctorate', 'raw\_333a2|3.3.3 a. 2. Scholarship/Fellowship International, competitive in Master's', 'raw\_333a3|3.3.3 a. 3. Scholarship/Fellowship International, competitive in Non-degree', 'raw\_333b1|3.3.3 b. 1. Scholarship/Fellowship International, non-competitive in Doctorate',

"raw\_333b2|3.3.3 b. 2. Scholarship/Fellowship International, non-competitive in Master's", 'raw\_333b3|3.3.3 b. 3. Scholarship/Fellowship International, non-competitive in Non-degree', 'raw\_333c1|3.3.3 c. 1. Scholarship/Fellowship National/Regional, competitive in Doctorate', "raw\_333c2|3.3.3 c. 2. Scholarship/Fellowship National/Regional, competitive in Doctorate", "raw\_333c3|3.3.3 c. 3. Scholarship/Fellowship National/Regional, competitive in Master's", "raw\_333c4|3.3.3 c. 4. Scholarship/Fellowship National/Regional, competitive in Non-degree',

'raw\_333d1|3.3.3 d. 1. Scholarship/Fellowship National/Regional, non-competitive in Doctorate', "raw\_333d2|3.3.3 d. 2. Scholarship/Fellowship National/Regional, non-competitive in Non-degree",

```

Scholarship/Fellowship
National/Regional, non-competitive in
Master's", "raw_333e|3.3.3 e.
Scholarship/Fellowship Local,
competitive or non-competitive',
'raw_34a|3.4 a. International awards of
distinction received', 'raw_34b|3.4 b.
National/Regional awards of distinction
received', 'raw_34c|3.4 c. Local awards of
distinction received',
    'raw_351|3.5.1 Participation in
service-oriented projects in the
community', "raw_361a|3.6.1 a. Passed
the Engineering, Accounting, Medicine,
Law, Teacher's Board, etc",
'raw_361b|3.6.1 b. Passed the Career
Executive Service Officers
Examination/Career Service Executive
Examination', 'raw_361c|3.6.1 c.
Received Seaman Certificate; Master
Electrician/ Master Plumber Certificate,
etc.; Plant Mechanic Certificate;
Professional Radio Operator Certificate',
'raw_361d|3.6.1 d. Passed IT proficiency
certification', 'raw_361e|3.6.1 e. Received
National Certificates (NC)/ Trade Skill
Certificates']
}
// getting the main and sub menus
var main = document.getElementById('category');
var sub = document.getElementById('subcategory');
;
// Trigger the Event when main menu
change occurs
main.addEventListener('change', function
o {
    selectOptionDynamic(this,
'subcategory', cars)
});
function
selectOptionDynamic(selectedoption,
submenu, submenuValueObject) {

    var sub = document.getElementById(submenu);
    // getting a selected option

    var selected_option = submenuValueObject[selectedoption.value];
    // removing the sub menu options using
while loop
    while (sub.options.length > 0) {
        sub.options.remove(0);
    }
    //conver the selected object into array
and create a options for each array
elements
    //using Option constructor it will create
html element with the given value and
innerText
    Array.from(selected_option).forEach(fun
ction (el) {
        var pair = el.split("'");
        let option = new Option(pair[1],
pair[0]);
        //append the child option in sub menu
        sub.appendChild(option);
    });
}

});
```

**app.js**

```

const menu = document.querySelector("#mobile-menu");
const menuLinks = document.querySelector('.navbar__menu');
//Display Mobile Menu
const mobileMenu = () => {
    menu.classList.toggle('is-active');
    menuLinks.classList.toggle('active');
};

menu.addEventListener('click',
mobileMenu)
```

**Includes Folder Files**

**adduser.inc.php**

```

<?php
session_start();
if (isset($_SESSION['username'])) {
if (isset($_POST['submit'])) {
    $firstname = $_POST['firstname'];
    $lastname = $_POST['lastname'];
    $email = $_POST['email'];
    $password = $_POST['password'];
    $pseudocode = $_POST['pseudocode'];
    $department = $_POST['department'];
    require_once '../server.php';
    function
emptyInputRegister($firstname,
$lastname, $email, $password,
$pseudocode, $department) {
        $result;
        if (empty($firstname) ||
empty($lastname) || empty($email) ||
empty($password) || empty($pseudocode) ||
empty($department)) {
            $result = true;
        } else{ $result = false;
        } return $result; }
    function emailExists($conn, $email) {
        $sql = "SELECT * FROM users
WHERE email = ?;";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt,
$sql)) {
            header("location:
./register.php?error=stmtfailed");
            exit();
        }
        mysqli_stmt_bind_param($stmt, "s",
$email);
        mysqli_stmt_execute($stmt);
        $resultData = mysqli_stmt_get_result($stmt);
        if ($row
        mysqli_fetch_assoc($resultData)) {
            return $row;
        } else{
            $result = false;
            return $result;
        }
        mysqli_stmt_close($stmt); }
    function createUser($conn, $firstname,
$lastname, $email, $password,
$pseudocode, $department){
        $sql = "INSERT INTO users
(firstname, lastname, email, password,
pseudocode, department) VALUES (?, ?, ?,
?, ?, ?);";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt,
$sql)) {
            header("location:
./register.php?error=stmtfailed1");
            exit();
        }
        $hashedPwd = password_hash($password,
PASSWORD_DEFAULT);
        mysqli_stmt_bind_param($stmt,
"sssss", $firstname, $lastname, $email,
$hashedPwd, $pseudocode, $department);
        mysqli_stmt_execute($stmt);
        mysqli_stmt_close($stmt);
        $sql = "INSERT INTO
userprofileimg (userEmail, status)
VALUES (?, ?);";
```



```

raw_34a, raw_34b, raw_34c, raw_351,
raw_361, raw_361a, raw_361b,
raw_361c, raw_361d, raw_361e,
equiv_34a, equiv_34b, equiv_34c,
equiv_351, equiv_361, equiv_361a,
equiv_361b, equiv_361c, equiv_361d,
equiv_361e, cat3456_total, last_update)
VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?);"
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt,
$sql)) {
    header("location:
./register.php?error=stmtfailed8");
    exit();
} else{
    $three = 3;
    $zero = 0;
date_default_timezone_set("Asia/Manila
");
    $dt2=date("Y-m-d h:i:s");
    mysqli_stmt_bind_param($stmt,
"ssssssssssssssssssssssss", $email, $three,
$zero, $zero, $zero, $zero, $zero,
$zero, $zero, $zero, $zero, $zero,
$zero, $zero, $zero, $zero, $zero,
$zero, $zero, $zero, $dt2);
    mysqli_stmt_execute($stmt);
    mysqli_stmt_close($stmt);

    $sql = "INSERT INTO
totalpointsandrank (email, department,
totalPoints, rank) VALUES (?, ?, ?, ?);";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt,
$sql)) {
        header("location:
./register.php?error=stmtfailed8");
        exit();
    } else{
        $rankDefault = "Instructor I";
        $zero = 0;
        mysqli_stmt_bind_param($stmt,
"ssss", $email, $department, $zero,
$rankDefault);
        mysqli_stmt_execute($stmt);
        mysqli_stmt_close($stmt);
        $sql = "INSERT INTO apostillehash
(email, fname, lname, department)
VALUES (?, ?, ?, ?);";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt,
$sql)) {
            header("location:
./register.php?error=stmtfailed8");
            exit();
        } else{
            mysqli_stmt_bind_param($stmt,
"ssss", $email, $firstname, $lastname,
$department);
            mysqli_stmt_execute($stmt);
            mysqli_stmt_close($stmt);
        }}}}}}}}}
    if (emptyInputRegister($firstname,
$lastname, $email, $password,
$pseudocode, $department) !== false) {
        header("location:
./Users.php?error=emptyinput");
        exit();
    }
    if (emailExists($conn, $email) !==
false) {
        header("location:
./Users.php?error=emailalreadyexists");
        exit();
    }
    if (pseudocodeExists($conn,
$pseudocode) !== false) {
        header("location:
./Users.php?error=pseudocodealreadyuse
d");
        exit();
    }
    if (pseudocodeNotFound($conn,
$pseudocode) === false) {
        header("location:
./Users.php?error=pseudocodenotfound
");
        exit();
    }
    createUser($conn, $firstname,
$lastname, $email, $password,
$pseudocode, $department);
} else if (isset($_POST['send'])) {
    $email = $_POST['email'];
    $pcode = $_POST['pseudocode'];
    require_once './server.php';
    function pcodeExists($conn, $pcode) {
        $sql = "SELECT * FROM
pseudocodedb WHERE pseudocodedb =
?;";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt,
$sql)) {
            header("location:
./Users.php?error=stmtfailed");
            exit();
        }
        mysqli_stmt_bind_param($stmt, "s",
$pcode);
        mysqli_stmt_execute($stmt);
        $resultData = mysqli_stmt_get_result($stmt);
        if ($row = mysqli_fetch_assoc($resultData)) {
            return $row;
        } else{
            $result = false;
            return $result;
        }
        mysqli_stmt_close($stmt);
    }
    function pseudocodeExists($conn,
$pcode){
        $sql = "SELECT * FROM users
WHERE pseudocode = ?;";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt,
$sql)) {
            header("location:
./Users.php?error=stmtfailed");
            exit();
        }
        mysqli_stmt_bind_param($stmt, "s",
$pcode);
        mysqli_stmt_execute($stmt);
        $resultData = mysqli_stmt_get_result($stmt);
        if ($row = mysqli_fetch_assoc($resultData)) {
            return $row;
        } else{
            $result = false;
            return $result;
        }
        mysqli_stmt_close($stmt);
        mysqli_close($conn);
        $to = $email;
        $subject = "Invitation to Join
NBC2 iPromote!";
        $message = "<html><body>";
        $message .= "<div style='padding:
50px; border: 60px solid #6d1919; text-
align:center;'>
```

```

<p style='font-size: 15px; color: #6d1919; font-weight:bolder; font-family:verdana;'>Good day! You have been invited to join on NBC2 iPromote.</p><br>;
$message .= "<p style='font-size: 13px; color: #91645a; font-weight:normal; font-family:verdana; text-align:justify !important'>Good day, Ma'am/Sir! We are Team NBC2 and we are currently in the process of deploying our research project entitled <b>"NBC2: BLOCKCHAIN-BASED NBC PORTFOLIO OPTIMIZATION DATABASE MANAGEMENT SYSTEM USING OPTICAL CHARACTER RECOGNITION AND MACHINE LEARNING</b>. The technology we are currently developing can scan, store, sort, and save both hardcopy and softcopy documents as well as to allocate points in accordance with the NBC No. 461 guidelines using optical character recognition (OCR) and machine learning. NEM Blockchain Apostille service was integrated in the system to notarize the result and record it to blockchain to ensure its authenticity and security.
</p> ";
$message .= "<p style='font-size: 13px; color: #91645a; font-weight:normal; font-family:verdana; text-align:justify !important'>Our group would like to invite you to join and utilize our developed web application. Documents uploaded and the data gathered will be solely used for the development of the research project. For the time being, while the kiosk is yet to be deployed at the COE faculty office, kindly upload the digital copy of your documents first when accessing the web application remotely. We sincerely appreciate your cooperation in the development of our study. Thank you and Godbless!
Attached herewith is an instruction manual you may need. Below is the assigned pseudocode for you:</p> ";
$message .= "<p style='font-size: 13px; color: #91645a; font-weight:bolder; font-family:verdana;'>$pcode</p><br>";
$message .= "<a href='www.nbcipromote.com' style='font-size: 13px; color: #91645a; font-weight:bolder; font-family:verdana; text-decoration:none;'>Click this to visit NBC2 iPromote</a>";
$message .= "<p style='font-size: 13px; color: #91645a; font-weight:normal; font-family:verdana;'>Sincerely yours, <br> Admin ";
$message .= " ";
$message .= $_SESSION['username'];
$message .= "</p>";
$message .= "<p style='font-size: 11px; color: #91645a; font-weight:normal; font-family:verdana;'>Sincerely yours, <br> Admin ";
$message .= " ";
$subject = "Invitation to Join NBC2 iPromote!";
$message = "<html><body>";
$message .= "<div style='padding: 50px; border: 60px solid #6d1919; text-align:center;'>
<p style='font-size: 15px; color: #6d1919; font-weight:bolder; font-family:verdana;'>Good day! You have been invited to join on NBC2 iPromote.</p><br>";
$message .= "<p style='font-size: 13px; color: #91645a; font-weight:normal; font-family:verdana; text-align:justify !important'>Good day, Ma'am/Sir! We are Team NBC2 and we are currently in the process of deploying our research project entitled <b>"NBC2: BLOCKCHAIN-BASED NBC PORTFOLIO OPTIMIZATION DATABASE MANAGEMENT SYSTEM USING OPTICAL CHARACTER RECOGNITION AND MACHINE LEARNING</b>. The technology we are currently developing can scan, store, sort, and save both hardcopy and softcopy documents as well as to allocate points in accordance with the NBC No. 461 guidelines using optical character recognition (OCR) and machine learning. NEM Blockchain Apostille service was integrated in the system to notarize the result and record it to blockchain to ensure its authenticity and security.
</p> ";
$message .= "<p style='font-size: 13px; color: #91645a; font-weight:normal; font-family:verdana; text-align:justify !important'>Our group would like to invite you to join and utilize our developed web application. Documents uploaded and the data gathered will be solely used for the development of the research project. For the time being, while the kiosk is yet to be deployed at the COE faculty office, kindly upload the digital copy of your documents first when accessing the web application remotely. We sincerely appreciate your cooperation in the development of our study. Thank you and Godbless!
Attached herewith is an instruction manual you may need. Below is the assigned pseudocode for you:</p> ";
$message .= "<p style='font-size: 13px; color: #91645a; font-weight:bolder; font-family:verdana;'>$pcode</p><br>";
$message .= "<a href='www.nbcipromote.com' style='font-size: 13px; color: #91645a; font-weight:bolder; font-family:verdana; text-decoration:none;'>Click this to visit NBC2 iPromote</a>";
$message .= "<p style='font-size: 13px; color: #91645a; font-weight:normal; font-family:verdana;'>Sincerely yours, <br> Admin ";
$message .= " ";

```

```

    $message = $SESSION['username'];
    $message .= "</p>";
    $message .= "<p style='font-size: 11px; color: #91645a; font-weight: normal; font-family: verdana'><i>Proponents: Caroline D. Batan, Adrian Rafael Ignacio, Janissa J. Mamayog, Chyna A. Paulino, Kristine Anne M. Tia (BSECE 4A, TUP-Manila)</i></p>
    </div></body></html>";
    $headers = "From: NBC2 iPromote <nbc2.ipromote@gmail.com>\r\n";
    $headers .= "Reply-To: nbc2.ipromote@gmail.com\r\n";
    $headers .= "Content-type: text/html\r\n";
    $headers .= "charset=UTF-8";
    require_once('../PHPMailer/PHPMailerAutoload.php');
    $mail = new PHPMailer();
    $mail->isSMTP();
    $mail-> SMTPAuth = true;
    $mail-> SMTPSecure = 'tls';
    $mail-> Host = 'smtp-relay.sendinblue.com';
    $mail-> Port = 587;
    $mail-> isHTML();
    $mail-> Username = 'nbc2.ipromote@gmail.com';
    $mail-> Password = '9w2a7Cvp84IL3N0s';
    $mail-> SetFrom('nbc2.ipromote@gmail.com', 'NBC2 iPromote');
    $mail-> Subject = $subject;
    $mail-> Header = $headers;
    $mail-> Body = $message;
    $mail-> AddAddress($to);
    $mail-> AddAttachment('NBC2 iPromote Kiosk Instruction Manual.pdf');
    $mail-> Send();

    header("location: ./Users.php?error=succes");
} else {
    header("location: ./Users.php?error=pseudocodealreadyset");
    exit();
}

} elseif (isset($_POST['add-admin'])) {
    $username = $_POST['username'];
    $password = $_POST['password'];
    $department = $_POST['department'];
    require_once './server.php';
    function usernameExists($conn, $username) {
        $sql = "SELECT * FROM adminlogin WHERE username = ?;";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location: ./Users.php?error=stmtfailed");
            exit();
        }
        mysqli_stmt_bind_param($stmt, "s", $username);
        mysqli_stmt_execute($stmt);
        $resultData = mysqli_stmt_get_result($stmt);
        if ($row = mysqli_fetch_assoc($resultData)) {
            return $row;
        } else {
            $result = false;
            return $result;
        }
        mysqli_stmt_close($stmt);
    }
    function createAdmin($conn, $username, $password, $department) {
        $sql = "INSERT INTO adminlogin (username, password, department) VALUES (?, ?, ?);";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location: ./Users.php?error=stmtfailed1");
            exit();
        }
        $hashedPwd = password_hash($password, PASSWORD_DEFAULT);
        mysqli_stmt_bind_param($stmt, "sss", $username, $hashedPwd, $department);
        mysqli_stmt_execute($stmt);
        mysqli_stmt_close($stmt);
        $sql = "INSERT INTO adminprofileimg (username, status) VALUES (?, ?);";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location: ./Users.php?error=stmtfailed2");
            exit();
        } else {
            $one = 1;
            mysqli_stmt_bind_param($stmt, "ss", $username, $one);
            mysqli_stmt_execute($stmt);
            mysqli_stmt_close($stmt);
        }
        if (usernameExists($conn, $username) !== false) {
            header("location: ./Users.php?error=emailalreadyexists");
            exit();
        }
        createAdmin($conn, $username, $password, $department);
    } } else {
        header("location: index.php?error=notloggedin");
        exit();
    }
}

$adminlogin.inc.php
<?php
if (isset($_POST['submit'])) {
    $username = $_POST['username'];
    $password = $_POST['adminPassword'];
    require_once './server.php';
    require_once 'functions.inc.php';
    if (emptyInputAdminLogin($username, $password) !== false) {
        header("location: ./adminlogin.php?error=emptyinput");
        exit();
    }
    loginAdmin($conn, $username, $password);
} else {
    header("location: ./adminlogin.php");
    exit();
}

adminprofile.inc.php
<?php
session_start();
$name = $SESSION['username'];
if (isset($SESSION['username'])) {
    if (isset($_POST['submit'])) {
        $file = $_FILES['file'];
        $fileName = $file['name'];
        $fileTmpName = $file['tmp_name'];
        $fileSize = $file['size'];
        $fileError = $file['error'];
        $fileType = $file['type'];
        $fileExt = explode('.', $fileName);
        $fileActualExt = strToLower(end($fileExt));
        $_SESSION['extension'] = $fileActualExt;
        $allowed = array('jpg');
        if (in_array($fileActualExt, $allowed)) {
            if ($fileError === 0) {
                if ($fileSize < 25000000) {
                    include_once './server.php';
                    $fileNameNew = "profile" . $name . ". " . $fileActualExt;
                    $fileDestination = "./profileimage/" . $fileNameNew;
                    move_uploaded_file($fileTmpName, $fileDestination);
                    $sql = "UPDATE adminprofileimg SET status=0 WHERE username=$name;";
                    $result = mysqli_query($conn, $sql);
                    header("location: ./adminprofilesetting.php?error=uploadsucces");
                } else {
                    header("location: ./adminprofilesetting.php?error=largefilesize");
                } else {
                    header("location: ./adminprofilesetting.php?error=faileduploadd");
                } } else {
                    header("location: ./adminprofilesetting.php?error=faileduploadd");
                } } else {
                    header("location: ./adminprofilesetting.php?error=emptyinput");
                }
}

```

```

        header("location:
        ./adminprofilesetting.php?error=filenotallowed");
    } }
} else{
    header("location:
index.php?error=notloggedin");
    exit();
}

adminprofilesetting.inc.php
<?php
session_start();
if (isset($_SESSION['username'])){
    if (isset($_POST['update'])) {
        $password = $_POST['password'];
        $passwordRepeat = $_POST['conf-pass'];
        $name = $_SESSION['username'];
        $currpass = $_POST['curr-pass'];
        require "../server.php";
        if (empty($password) || empty($passwordRepeat) || empty($passwordRepeat)){
            header("location:
            ./adminprofilesetting.php?error=empty");
            exit();
        } else if ($password != $passwordRepeat) {
            header("location:
            ./adminprofilesetting.php?error=pwdnotmatch");
            exit();
        } else {
            $sql = "SELECT * FROM
adminlogin WHERE username = ?;";
            $stmt = mysqli_stmt_init($conn);
            if (!mysqli_stmt_prepare($stmt, $sql)) {
                header("location:
                ./adminprofilesetting.php?error=stmtfail
ed"); exit();
            }
            mysqli_stmt_bind_param($stmt, "s", $name);
            mysqli_stmt_execute($stmt);
            $resultData = mysqli_stmt_get_result($stmt);
            $row = mysqli_fetch_assoc($resultData);
            $pwdHashed = $row["password"];
            $checkPwd = password_verify($currpass, $pwdHashed);
            if ($checkPwd === false) {
                header("location:
                ./adminprofilesetting.php?error=wrongpassword");
                exit();
            } else if ($checkPwd === true){
                $sql = "UPDATE adminlogin
SET password=? WHERE username=?;";
                $stmt = mysqli_stmt_init($conn);
                if (!mysqli_stmt_prepare($stmt, $sql)) {
                    header("location:
                    ./adminprofilesetting.php?error=stmtfail
ed"); exit();
                } else {

```

```

$NewPwdHash = header("location:
        ./audit.php?error=stmtfailed");
        exit();
    } } else {
        mysqli_stmt_bind_param($stmt, "ss", $NewPwdHash, $name);
        mysqli_stmt_execute($stmt);
        header("location:
        ./adminprofilesetting.php?error=passwordupdated");
        exit();
    } else {
        header("location:
        ./adminprofilesetting.php");
    } } } }

else{
    header("location:
index.php?error=notloggedin");
    exit();
}

audit.inc.php
<?php
session_start();
$_userdepartment = $userdepartment;
$_SESSION["userdepartment"];
if (isset($_SESSION['useremail'])){
if (isset($_POST['submit'])) {
    $userhashkey = $_POST['hashkey'];
    $file = $_FILES["file"];
    $fileName = $_FILES["file"]["name"];
    $fileTmpName = $_FILES["file"]["tmp_name"];
    $fileSize = $_FILES["file"]["size"];
    $fileError = $_FILES["file"]["error"];
    $fileType = $_FILES["file"]["type"];
    $fileExt = explode('.', $fileName);
    $fileActualExt = strtolower(end($fileExt));
    $allowed = array('pdf');
    if (in_array($fileActualExt, $allowed)) {
        if ($fileError === 0) {
            if ($fileSize < 250000000) {
                $fileDestination = "../apostillefiles/".$fileName;
                move_uploaded_file($fileTmpName, $fileDestination);
                $email = $_SESSION['useremail'];
                // call audit.js
                $newNode = "node audit.js " . $email . " " . $fileName . "
" . $userhashkey;
                chdir('../xampp/htdocs/dashboard');
                $nodejs = shell_exec($newNode);
                chdir('../xampp/htdocs/dashboard/Includes');
                // delete after audit
                $file_path = "../apostillefiles/" . $fileName;
                unlink($file_path);
                require_once './server.php';
                $sql = "SELECT * FROM apostillehash WHERE email = ?;";
                $stmt = mysqli_stmt_init($conn);
                if (!mysqli_stmt_prepare($stmt, $sql)) {

```

```

$output = header("location:
        ./audit.php?error=$output");
    } } else {
        header("location:
        ./audit.php?error=largefilesize");
    } } else {
        header("location:
        ./audit.php?error=failedupload");
    } } else {
        header("location:
        ./audit.php?error=filenotallowed");
    } } else {
        header("location: ../audit.php");
    } } else {
        header("location:
index.php?error=notloggedin");
        exit();
    }
}

delete.inc.php
<?php
session_start();
if (isset($_POST['preview'])) {
    if (isset($_POST['check_list'])) {
        foreach ($_POST['check_list'] as $deleteid) {
            include_once '../server.php';
            $email = $_SESSION['useremail'];
            $sql = "SELECT * FROM userarchive WHERE filename=? and
email=?;";
            $stmt = mysqli_stmt_init($conn);
            if (!mysqli_stmt_prepare($stmt, $sql)) {
                header("location:
                ./filearchive.php?error=stmtfailed");
                exit();
            } } else {
                mysqli_stmt_bind_param($stmt, "ss", $deleteid, $email);
                mysqli_stmt_execute($stmt);
                $_SESSION["path"] = $deleteid;
                header("location:
                previewpdf.php");
                exit();
            }
        } } else {
            header("location:
            ./filearchive.php");
            exit();
        }
    } elseif (isset($_POST['download'])) {
        $file_folder = '../uploads/';

```

```

if (extension_loaded('zip')) {
    if (isset($_POST['check_list']) and
        count($_POST['check_list'])) {
        $zip = new ZipArchive();
        $zip_name = time(). ".zip";
        if ($zip->open($zip_name,
ZIPARCHIVE::CREATE) !== TRUE){
            header("location:
..//filearchive.php?error=zipcreatefailed")
            ;exit();
        } else {
            foreach($_POST['check_list']
as $file){ $zip-
>addFile($file_folder.$file);
            $zip->close();
            if (file_exists($zip_name)){
                header('Content-type:
application/zip');
                header('Content-Disposition:
attachment; filename="'. $zip_name.'"');
                readfile($zip_name);
                unlink($zip_name);
            }
        } else {
            header("location:
..//filearchive.php");
            exit();
        }
    } else {
        header("location:
..//filearchive.php?error=nozipext");
        exit();
    }
} elseif (isset($_POST["delete"])) {
    if (isset($_POST['check_list'])) {
        foreach ($_POST['check_list'] as
$deleteid) {
            include_once '../server.php';
            $email =
$_SESSION['useremail'];
            $sql = "DELETE FROM
userarchive WHERE filename=? and
email=?;";
            $stmt = mysqli_stmt_init($conn);
            if (!mysqli_stmt_prepare($stmt,
$sql)) {
                header("location:
..//filearchive.php?error=stmtfailed");
                exit();
            } else {
                mysqli_stmt_bind_param($stmt, "ss",
$deleteid, $email);
                mysqli_stmt_execute($stmt);
                $sql = "DELETE FROM
userarchive WHERE filename=? and
email=?;";
                $stmt = mysqli_stmt_init($conn);
                if (!mysqli_stmt_prepare($stmt,
$sql)) {
                    header("location:
..//filearchive.php?error=stmtfailed");
                    exit();
                } else {
                    mysqli_stmt_bind_param($stmt, "ss",
$deleteid, $email);
                    mysqli_stmt_execute($stmt);
                    $path = "../uploads/".$deleteid;
                    if (!unlink($path)) {
                        header("location:
..//filearchive.php?error=deleteerror");
                        exit();
                    } else {
                        foreach($_POST['check_list']
as $file){ $zip-
>addFile($file_folder.$file);
                        $zip->close();
                        if (file_exists($zip_name)){
                            header('Content-type:
application/zip');
                            header('Content-Disposition:
attachment; filename="'. $zip_name.'"');
                            readfile($zip_name);
                            unlink($zip_name);
                        }
                    }
                }
            }
        }
    }
}
}

header("location:
..//filearchive.php?error=deletesuccess");
exit();
}
} else{
    header("location:
..//filearchive.php");
    exit();
}
else{
    header("location: ..//filearchive.php");
    exit();
}
}

function noMatchPseudo($conn, $email,
$pseudocode) {
    $sql = "SELECT * FROM pseudo_inv
WHERE email = ? AND pseudocode = ?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql))
    {
        header("location:
..//register.php?error=stmtfailed");
        exit();
    }
    mysqli_stmt_bind_param($stmt, "ss",
$email, $pseudocode);
    mysqli_stmt_execute($stmt);
    $resultData =
mysqli_stmt_get_result($stmt);
    if ($row =
mysqli_fetch_assoc($resultData)) {
        return $row;
    } else{
        $result = false;
        return $result;
    }
    mysqli_stmt_close($stmt);
}

function noMatchPseudo($conn, $email,
$pseudocode) {
    $sql = "SELECT * FROM pseudo_inv
WHERE email = ? AND pseudocode = ?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql))
    {
        header("location:
..//register.php?error=stmtfailed");
        exit();
    }
    mysqli_stmt_bind_param($stmt, "ss",
$email, $pseudocode);
    mysqli_stmt_execute($stmt);
    $resultData =
mysqli_stmt_get_result($stmt);
    if ($row =
mysqli_fetch_assoc($resultData)) {
        return $row;
    } else{
        $result = false;
        return $result;
    }
    mysqli_stmt_close($stmt);
}

function pseudocodeExists($conn,
$pseudocode){
    $sql = "SELECT * FROM users
WHERE pseudocode = ?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql))
    {
        header("location:
..//register.php?error=stmtfailed");
        exit();
    }
    mysqli_stmt_bind_param($stmt, "s",
$pseudocode);
    mysqli_stmt_execute($stmt);
    $resultData =
mysqli_stmt_get_result($stmt);
    if ($row =
mysqli_fetch_assoc($resultData)) {
        return $row;
    } else{
        $result = false;
        return $result;
    }
    mysqli_stmt_close($stmt);
}

function pseudocodeNotFound($conn,
$pseudocode) {
    $sql = "SELECT * FROM users
WHERE pseudocode = ?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql))
    {
        header("location:
..//register.php?error=stmtfailed");
        exit();
    }
    mysqli_stmt_bind_param($stmt, "s",
$pseudocode);
    mysqli_stmt_execute($stmt);
    $resultData =
mysqli_stmt_get_result($stmt);
    if ($row =
mysqli_fetch_assoc($resultData)) {
        return $row;
    } else{
        $result = false;
        return $result;
    }
    mysqli_stmt_close($stmt);
}

```



```

mysqI_stmt_bind_param($stmt,
"sssss", $email, $name, $department,
$three, $cat33, $cat33);
mysqI_stmt_execute($stmt);
mysqI_stmt_close($stmt);
$sql = "INSERT INTO pt3_achieve_456 (email, name,
department, category, cat34_ini,
cat35_ini, cat36_ini, cat3456_total)
VALUES (?, ?, ?, ?, ?, ?, ?);";
$stmt = mysqI_stmt_init($conn);
if (!mysqI_stmt_prepare($stmt, $sql))
{
    header("location:
../register.php?error=stmtfailed8");
    exit();
} else {
    $three = 3;
    $zero = 0;
    $cat3456 = $cat34 + $cat35 + $cat36;
date_default_timezone_set("Asia/Manila
");
    $dt2 = date("Y-m-d h:i:s");
    mysqI_stmt_bind_param($stmt,
"ssssssss", $email, $name, $department,
$three, $cat34, $cat35, $cat36, $cat3456);
    mysqI_stmt_execute($stmt);
    mysqI_stmt_close($stmt);
    $sql = "INSERT INTO prev_pts (email,
cat1_ini, cat2_ini, cat3_ini, cat31_ini,
cat32_ini, cat321_ini, cat322_ini,
cat33_ini, cat34_ini, cat35_ini, cat36_ini)
VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?);";
    $stmt = mysqI_stmt_init($conn);
    if (!mysqI_stmt_prepare($stmt, $sql))
    {
        header("location:
../register.php?error=stmtfailed8");
        exit();
    } else {
        mysqI_stmt_bind_param($stmt,
"ssssssssss", $email, $cat1, $cat2, $cat3,
$cat31, $cat32, $cat321, $cat322, $cat33,
$cat34, $cat35, $cat36);
        mysqI_stmt_execute($stmt);
        mysqI_stmt_close($stmt);
        $sql = "INSERT INTO totalpointsandrank (email, department,
totalPoints, rank) VALUES (?, ?, ?, ?);";
        $stmt = mysqI_stmt_init($conn);
        if (!mysqI_stmt_prepare($stmt, $sql))
        {
            header("location:
../register.php?error=stmtfailed8");
            exit();
        } else {
            $total_points = $cat1 + $cat2 + $cat3;
            if ($total_points < 66) {
                $rank = "Instructor I";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 66 &&
$total_points < 77) {
                $rank = "Instructor II";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 77 &&
$total_points < 88) {
                $rank = "Instructor III";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 88 &&
$total_points < 97) {
                $rank = "Assistant Professor I";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 97 &&
$total_points < 106) {
                $rank = "Assistant Professor II";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 106 &&
$total_points < 115) {
                $rank = "Assistant Professor III";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 115 &&
$total_points < 124) {
                $rank = "Assistant Professor IV";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 124 &&
$total_points < 131) {
                $rank = "Associate Professor I";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 131 &&
$total_points < 138) {
                $rank = "Associate Professor II";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 138 &&
$total_points < 145) {
                $rank = "Associate Professor III";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 145 &&
$total_points < 152) {
                $rank = "Associate Professor IV";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 152 &&
$total_points < 159) {
                $rank = "Associate Professor V";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 159 &&
$total_points < 165) {
                $rank = "Professor I";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 165 &&
$total_points < 171) {
                $rank = "Professor II";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 171 &&
$total_points < 177) {
                $rank = "Professor III";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 177 &&
$total_points < 183) {
                $rank = "Professor IV";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 183 &&
$total_points < 189) {
                $rank = "Professor V";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 189 &&
$total_points < 195) {
                $rank = "Professor VI";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            } else if ($total_points >= 195 &&
$total_points <= 200) {
                $rank = "College/University
Professor";
                mysqI_stmt_bind_param($stmt,
"ssss", $email, $department,
$total_points, $rank);
                mysqI_stmt_execute($stmt);
                mysqI_stmt_close($stmt);
            }
        }
    }
}

```

```

$sql = "INSERT INTO apostillehash
(email, fname, lname, department)
VALUES (?, ?, ?, ?);";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt, $sql))
{
    header("location:
./register.php?error=stmtfailed8");
    exit();
} else{
    mysqli_stmt_bind_param($stmt,
"ssss", $email, $firstname, $lastname,
$department);
    mysqli_stmt_execute($stmt);
    mysqli_stmt_close($stmt);
    header("location:
./register.php?error=none");
    exit();
}
}

function emptyInputLogin($email,
$password) {
    $result;
    if (empty($email) || empty($password))
    { $result = true; }
    else{ $result = false; }
    return $result;
}

function loginUser($conn, $email,
$password) {
    $emailExists = emailExists($conn,
$email);
    if ($emailExists === false) {
        header("location:
./login.php?error=wrongemailorpassword");
        exit();
    }
    $pwdHashed = $emailExists["password"];
    $checkPwd = password_verify($password,
$pwdHashed);
    if ($checkPwd === false) {
        header("location:
./login.php?error=wrongemailorpassword");
        exit(); }
    else if ($checkPwd === true){
        session_start();
        date_default_timezone_set("Asia/Manila");
        $dt2= date("Y-m-d h:i:s");
        $sql = "INSERT INTO
user_track_session (email, fname, lname,
department, session, timestamp)
VALUES (?, ?, ?, ?, ?, ?);";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt,
$sql)) {
            header("location:
./login.php?error=stmtfailed");
            exit();
        } else{
            $session_type = "Login";
            $department = $emailExists['department'];
            $fname = $emailExists['firstname'];
            $lname = $emailExists['lastname'];
            mysqli_stmt_bind_param($stmt,
"sssss", $email, $fname, $lname,
$department, $session_type, $dt2);
            mysqli_stmt_execute($stmt);
            mysqli_stmt_close($stmt);
            $resultData = mysqli_stmt_get_result($stmt);
            $row = mysqli_fetch_assoc($resultData);
            $result = true;
        }
    }
}

function emptyInputAdminLogin($username,
$password) {
    $result;
    if (empty($username) ||
empty($password)) {
        $result = true;
    } else{
        $result = false;
    }
    return $result;
}

function usernameExists($conn,
$username) {
    $sql = "SELECT * FROM adminlogin
WHERE username = ?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql))
    {
        header("location:
./adminlogin.php?error=stmtfailed");
        exit();
    }
    mysqli_stmt_bind_param($stmt, "s",
$username);
    mysqli_stmt_execute($stmt);
    $resultData = mysqli_stmt_get_result($stmt);
    if ($row = mysqli_fetch_assoc($resultData)) {
        return $row;
    } else{
        $result = false;
        return $result;
    }
    mysqli_stmt_close($stmt);
}

function loginAdmin($conn, $username,
$password) {
    $usernameExists = usernameExists($conn,
$username);
    if ($usernameExists === false) {
        header("location:
./adminlogin.php?error=wrongemailorpassword");
        exit();
    }
}

function checkPwd
password_verify($password,
$pwdHashed);
if ($checkPwd === false) {
    header("location:
./adminlogin.php?error=wrongemailorpassword");
    exit();
} else if ($checkPwd === true){
    session_start();
    $SESSION["username"] = $username;
    $SESSION["department"] = $department;
    header("location:
./adminprofile.php");
    exit();
}
}

index.inc.php
<?php
if (isset($_POST["submit"])) {

    $email = $_POST["email"];
    $password = $_POST["password"];
    require_once './server.php';
    require_once 'functions.inc.php';
    if (emptyInputLogin($email,
$password) !== false) {
        header("location:
./login.php?error=emptyinput");
        exit();
    }
    loginUser($conn, $email, $password);
} else{
    header("location: ./login.php");
    exit();
}

logout.inc.php
<?php
session_start();
include_once './server.php';
date_default_timezone_set("Asia/Manila");
$dt2= date("Y-m-d h:i:s");
$department = $SESSION["userdepartment"];
$fname = $SESSION['userfirstname'];
$lname = $SESSION['userlastname'];
$email = $SESSION['useremail'];
$sql = "INSERT INTO
user_track_session (email, fname, lname,
department, session, timestamp)
VALUES (?, ?, ?, ?, ?, ?);";
$stmt = mysqli_stmt_init($conn);
if (!mysqli_stmt_prepare($stmt,
$sql)) {
    header("location:
./index.php?error=stmtfailed");
    exit();
} else{
    $session_type = "Logout";
}

```

```
        mysqli_stmt_bind_param($stmt,
"sssss", $email, $fname, $lname,
$department, $session_type, $dt2);
        mysqli_stmt_execute($stmt);
        mysqli_stmt_close($stmt);
    }
session_unset();
session_destroy();
header("location: ../index.php");
exit();
```

## **logout-admin.inc.php**

```
<?php  
session_start();  
session_unset();  
session_destroy();  
  
header("location: ../../index.php");  
exit();
```

preview.php

```
<?php
session_start();
$path = $_SESSION["path"];
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible"
content="IE=edge">
    <meta name="viewport"
content="width=device-width, initial-
scale=1.0">
    <title>NBC2 iPromote</title>
    <link rel="icon" type="image/png"
href="favicon.png">
<style>
    body {
        margin: 0;
        padding: 0;
    }
    iframe {
        display: block;
        width: 100vw;
        height: 100vh;
        max-width: 100%;
        margin: 0;
        padding: 0;
        border: 0 none;
        box-sizing: border-box;
    }
</style>
</head>
<body>
    <iframe src="..uploads/<?php echo
$path; ?>" type="application/pdf"
width="100%"
height="100%"></iframe>
</body>
</html>
```

**profilesettings.inc.php**

```
<?php  
session_start();  
if (isset($_SESSION['useremail'])) {  
    if (isset($_POST['update'])) {  
        $password = $_POST['password'];
```

```
$passwordRepeat = $_POST['conf-  
pass'];  
$email = $_SESSION['useremail'];  
$currpass = $_POST['curr-pass'];  
require "../server.php";  
if (empty($password))  
header("location:  
./userprofile.php?error=empty");  
exit();  
} else if ($password !=  
$passwordRepeat) {  
header("location:  
./userprofile.php?error=pwdnotmatch");  
exit();  
} else {  
$sql = "SELECT * FROM users  
WHERE email = ?;";  
$stmt = mysqli_stmt_init($conn);  
if (!mysqli_stmt_prepare($stmt,  
$sql)) {  
header("location:  
./userprofile.php?error=stmtfailed");  
exit();}  
mysqli_stmt_bind_param($stmt,  
"s", $email);  
mysqli_stmt_execute($stmt);  
$resultData =  
mysqli_stmt_get_result($stmt);  
$row =  
mysqli_fetch_assoc($resultData);  
$pwdHashed = $row["password"];  
$checkPwd =  
password_verify($currpass,  
$pwdHashed);  
if ($checkPwd === false) {  
header("location:  
./userprofile.php?error=wrongpassword");  
exit();}  
} else if ($checkPwd === true){  
$sql = "UPDATE users SET  
password=? WHERE email=?;";  
$stmt =  
mysqli_stmt_init($conn);  
if (!mysqli_stmt_prepare($stmt,  
$sql)) {  
header("location:  
./userprofile.php?error=stmtfailed");  
exit();}  
} else {  
$newPwdHash =  
password_hash($password,  
PASSWORD_DEFAULT);  
mysqli_stmt_bind_param($stmt, "ss",  
$newPwdHash, $email);  
mysqli_stmt_execute($stmt);  
header("location:  
./userprofile.php?error=passwordupdated");  
exit();}  
} else {  
header("location:  
index.php?error=notloggedin");  
exit();}
```

## **register.inc.php**

```
<?php
if (isset($_POST["submit"])) {
    $firstname = $_POST["firstname"];
    $lastname = $_POST["lastname"];
    $email = $_POST["email"];
    $password = $_POST["password"];
    $pseudocode = $_POST["pseudocode"];
    $department = $_POST["department"];
    $user_stat = $_POST["candtype"];
    if ($user_stat == "new") {
        $cat1 = 0;
        $cat2 = 0;
        $cat3 = 0;
        $cat31 = 0;
        $cat32 = 0;
        $cat321 = 0;
        $cat322 = 0;
        $cat33 = 0;
        $cat34 = 0;
        $cat35 = 0;
        $cat36 = 0;
    } elseif ($user_stat == "old") {
        $cat1 = $_POST["cat1"];
        $cat2 = $_POST["cat2"];
        $cat3 = $_POST["cat3"];
        $cat31 = $_POST["cat31"];
        $cat32 = $_POST["cat32"];
        $cat321 = $_POST["cat321"];
        $cat322 = $_POST["cat322"];
        $cat33 = $_POST["cat33"];
        $cat34 = $_POST["cat34"];
        $cat35 = $_POST["cat35"];
        $cat36 = $_POST["cat36"];
    }
    require_once '../server.php';
    require_once 'functions.inc.php';
    if (emptyInputRegister($firstname,
        $lastname, $email, $password,
        $pseudocode, $user_stat, $department,
        $cat1, $cat2, $cat3, $cat31, $cat32,
        $cat321, $cat322, $cat33, $cat34, $cat35,
        $cat36) !== false) {
        header("location:
            ../register.php?error=emptyinput");
        exit();
    }
    if (emailExists($conn, $email) !==
        false) {
        header("location:
            ../register.php?error=emailalreadyexists");
    }
    exit();
}
if (pseudocodeExists($conn,
    $pseudocode) !== false) {
    header("location:
        ../register.php?error=pseudocodealreadyexists");
    exit();
}
if (pseudocodeNotFound($conn,
    $pseudocode) === false) {
    header("location:
        ../register.php?error=pseudocodenotfoun
        d");
    exit();
}
```

```

        }
        if (cat3Correct($user_stat, $cat3,
$cat31, $cat32, $cat31, $cat322, $cat33,
$cat34, $cat35, $cat36) !== false) {
            header("location:
./register.php?error=cat3pointserror");
            exit();
        }
        if (noMatchPseudo($conn, $email,
$pseudocode) == false) {
            header("location:
./register.php?error=incorrectpseudocode
");
            exit();
        }
        createUser($conn, $firstname,
$lastname, $email, $password,
$pseudocode, $department, $user_stat,
$cat1, $cat2, $cat3, $cat31, $cat32,
$cat321, $cat322, $cat33, $cat34, $cat35,
$cat36);
    }
else {
    header("location: ./register.php");
    exit();
}

```

**reset-password.inc.php**

```

<?php
if (isset($_POST["reset-request-
submit"])) {
    $selector = $_POST["selector"];
    $validator = $_POST["validator"];
    $password = $_POST["newPassword"];
    $passwordRepeat = $_POST["confirmPassword"];
    if (empty($password) ||
empty($passwordRepeat)) {
        header("location: ./create-new-
password.php?newpwd=empty");
        exit();
    } else if ($password != $passwordRepeat) {
        header("location: ./create-new-
password.php?newpwd=pwdnotmatch");
        exit();
    }
    $currentDate = date("U");
    require "./server.php";
    $sql = "SELECT * FROM pwdReset
WHERE pwdResetSelector=? AND
pwdResetExpires >=?";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql))
    {
        header("location: ./create-new-
password.php?error=stmtfailed");
        exit();
    } else {
        mysqli_stmt_bind_param($stmt,
"ss", $selector, $currentDate);
        mysqli_stmt_execute($stmt);
        $result = mysqli_stmt_get_result($stmt);
        if (!$row = mysqli_fetch_assoc($result))
        {

```

```

            header("location:
./forgotpassword.php?reset=resubmitreq
uest");
            exit();
        } else{
            $tokenBin = hex2bin($validator);
            $tokenCheck = password_verify($tokenBin,
$row["pwdResetToken"]);
            if ($tokenCheck === false) {
                header("location:
./forgotpassword.php?reset=resubmitreq
uest");
                exit();
            } else if ($tokenCheck === true) {
                $tokenEmail = $row["pwdResetEmail"];
                $sql = "SELECT * FROM users
WHERE email=?;";
                $stmt = mysqli_stmt_init($conn);
                if (!mysqli_stmt_prepare($stmt,
$sql)) {
                    header("location: ./create-
new-password.php?error=stmtfailed");
                    exit();
                } else {
                    mysqli_stmt_bind_param($stmt,
"s", $tokenEmail);
                    mysqli_stmt_execute($stmt);
                    $result = mysqli_stmt_get_result($stmt);
                    if ($row = mysqli_fetch_assoc($result))
                    {
                        header("location:
./forgotpassword.php?reset=therewasane
rror");
                        exit();
                    } else{
                        $sql = "UPDATE users
SET password=? WHERE email=?;";
                        $stmt = mysqli_stmt_init($conn);
                        if (!mysqli_stmt_prepare($stmt,
$sql)) {
                            header("location: ./create-
new-password.php?error=stmtfailed");
                            exit();
                        } else {
                            $newPwdHash = password_hash(
$password, PASSWORD_DEFAULT);
                            mysqli_stmt_bind_param($stmt,
"ss", $newPwdHash, $tokenEmail);
                            mysqli_stmt_execute($stmt);
                            $sql = "DELETE FROM
pwdReset WHERE pwdResetEmail=?;";
                            $stmt = mysqli_stmt_init($conn);
                            if (!mysqli_stmt_prepare($stmt,
$sql)) {
                                header("location: ./create-
new-password.php?error=stmtfailed");
                                exit();
                            } else {

```

```

                                mysqli_stmt_bind_param($stmt,
"s", $tokenEmail);
                                mysqli_stmt_execute($stmt);
                                $sql = "INSERT INTO pwdReset
(pwdResetEmail, pwdResetSelector,
pwdResetToken, pwdResetExpires)
VALUES (?, ?, ?, ?);";
                                $stmt = mysqli_stmt_init($conn);
                                if (!mysqli_stmt_prepare($stmt,
$sql))
                                {
                                    header("location:
./forgotpassword.php?error=stmtfailed");
                                    exit();
                                } else {
                                    $hashedToken = password_
hash($token, PASSWORD_DEFAULT);
                                    mysqli_stmt_bind_param($stmt,
"ssss", $userEmail, $selector,
$hashedToken, $expires);
                                    mysqli_stmt_execute($stmt);
                                }
                                mysqli_stmt_close($stmt);
                                mysqli_close($conn);
                                $to = $userEmail;
                                $subject = "NBC2 iPromote Reset
Password";
                                $message = "<html><body>";
                                $message .= "<div style='padding:
50px; border: 60px solid #6d1919; text-
align:center;'>
<div style='text-align:center;'>
<p style='font-size: 30px; color:
#6d1919; font-weight:bolder; font-

```



```

} else{
    header("location:
index.php?error=notloggedin");
    exit();
}

users.inc.php
<?php
session_start();
if (isset($_SESSION['username'])) {
    if (isset($_POST['delete'])) {
        if (isset($_POST['check'])) {
            foreach ($_POST['check'] as $deleteid) {
                require_once './server.php';
                $rowCount = count($_POST['check']);
                for($i=0;$i<$rowCount;$i++) {
                    mysqli_query($conn,
                    "DELETE FROM users WHERE email=" .
                    $_POST['check'][$i] . "");
                }
                for($i=0;$i<$rowCount;$i++) {
                    mysqli_query($conn,
                    "DELETE FROM userprofileimg
WHERE userEmail=" .
                    $_POST['check'][$i] . "");
                }
                for($i=0;$i<$rowCount;$i++) {
                    mysqli_query($conn,
                    "DELETE FROM pt1_educ WHERE
email=" . $_POST['check'][$i] . "");
                }
                for($i=0;$i<$rowCount;$i++) {
                    mysqli_query($conn,
                    "DELETE FROM pt2_exp WHERE
email=" . $_POST['check'][$i] . "");
                }
                for($i=0;$i<$rowCount;$i++) {
                    mysqli_query($conn,
                    "DELETE FROM pt3_achieve_1
WHERE email=" . $_POST['check'][$i] .
                    . "");
                }
                for($i=0;$i<$rowCount;$i++) {
                    mysqli_query($conn,
                    "DELETE FROM pt3_achieve_2
WHERE email=" . $_POST['check'][$i] .
                    . "");
                }
                for($i=0;$i<$rowCount;$i++) {
                    mysqli_query($conn,
                    "DELETE FROM pt3_achieve_3
WHERE email=" . $_POST['check'][$i] .
                    . "");
                }
                for($i=0;$i<$rowCount;$i++) {
                    mysqli_query($conn,
                    "DELETE FROM pt3_achieve_456
WHERE email=" . $_POST['check'][$i] .
                    . "");
                }
                for($i=0;$i<$rowCount;$i++) {
                    mysqli_query($conn,
                    "DELETE FROM totalpointsandrank
WHERE email=" . $_POST['check'][$i] .
                    . "");
                }
                for($i=0;$i<$rowCount;$i++) {
                    mysqli_query($conn,
                    "DELETE FROM apostillehash WHERE
email=" . $_POST['check'][$i] . "");
                }
                for($i=0;$i<$rowCount;$i++) {
                    $result = mysqli_query($conn, "SELECT * FROM
userfiles WHERE email=" .
                    $_POST['check'][$i] . "");
                    $rowFiles = mysqli_num_rows($result);
                    for($i=0;$i<$rowFiles;$i++)
                    {
                        while($rows =
mysqli_fetch_assoc($result))
                        {
                            $filename = $rows['filename'];
                            $path = "./uploads/" . $filename;
                            if (!unlink($path))
                                header("location:
./validation.php?error=deleteerror");
                            else
                                header("location:
./validation.php?error=deletesuccess");
                        }
                    }
                }
            }
        }
    }
}
header("location:
./validation.php?error=stmtfailed");
exit();
}

} else {
    mysqli_stmt_bind_param($stmt,
"s", $deleteid);
    mysqli_stmt_execute($stmt);
    $_SESSION['path'] = $deleteid;
    header("location:
./validation.php?assign=$deleteid");
    exit(); } }

} elseif(isset($_POST['view'])) {
    foreach ($_POST['view'] as $deleteid)
    {
        include_once './server.php';
        $sql = "SELECT * FROM
userarchive WHERE filename=?";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt,
$sql)) {
            header("location:
./validation.php?error=stmtfailed");
            exit();
        } else {
            mysqli_stmt_bind_param($stmt,
"s", $deleteid);
            mysqli_stmt_execute($stmt);
            $_SESSION['path_view'] =
$deleteid;
            header("location:
./validation.php?view=$deleteid");
            exit(); } }

} elseif(isset($_POST['accurate'])) {
    foreach ($_POST['accurate'] as $deleteid)
    {
        include_once './server.php';
        $sql = "SELECT * FROM
userarchive WHERE filename=?";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt,
$sql)) {
            header("location:
./validation.php?error=stmtfailed");
            exit();
        } else {
            mysqli_stmt_bind_param($stmt,
"s", $deleteid);
            mysqli_stmt_execute($stmt);
            $result = mysqli_stmt_get_result($stmt);
            $row = mysqli_fetch_assoc($result);
            $sql = "UPDATE userarchive SET
verify_y_n=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?";
            $stmt = mysqli_stmt_init($conn);
            if (!mysqli_stmt_prepare($stmt,
$sql)) {
                header("location:
./validation.php?error=stmtfailed");
                exit();
            } else {
                $yn = "accurate";
                $verif_cat = $row['category'];
                $verif_subcat =
$row['specific_cat'];
                $verif_pts = $row['points'];
                mysqli_stmt_bind_param($stmt,
"sssss",
                $yn, $verif_cat, $verif_subcat,
                $verif_pts); } } }

}

```

```

$yn, $verif_cat, $verif_subcat, $verif_pts,
$deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
        ./validation.php?error=updatesuccessful"
    ); exit(); } }
} elseif (isset($_POST["update"])) {
    include_once './server.php';
    $deleteid = $_POST['path'];
    $inp_points = $_POST['points'];
    if($_POST['category'] == "1"){
        $subcategory
            =
        $_POST['subcategory'];
        if($subcategory
            ==
        "raw_111"){
            $sql
                =
            "UPDATE
userarchive
SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
            $stmt
                =
        mysqli_stmt_init($conn);
            if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
                ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "1";
            $spec_cat = "1.1.1";
            $status = "inaccurate";
            $pts
                =
            85;
        mysqli_stmt_bind_param($stmt, "sssss",
            $status, $category, $spec_cat, $pts,
            $deleteid);
        mysqli_stmt_execute($stmt);
            header("location:
                ./validation.php?error=statusupdated");
            exit();
        }
    } elseif ($subcategory
        ==
    "raw_112"){
        $sql
            =
        "UPDATE
userarchive
SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
        $stmt
            =
        mysqli_stmt_init($conn);
            if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
                ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "1";
            $spec_cat = "1.1.2";
            $status = "inaccurate";
            $pts
                =
            65;
        mysqli_stmt_bind_param($stmt, "sssss",
            $status, $category, $spec_cat, $pts,
            $deleteid);
        mysqli_stmt_execute($stmt);
            header("location:
                ./validation.php?error=statusupdated");
            exit();
        }
    } elseif($subcategory
        ==
    "raw_113"){
        $sql
            =
        "UPDATE
userarchive
SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
        $stmt
            =
        mysqli_stmt_init($conn);
            if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
                ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "1";
            $spec_cat = "1.1.3";
            $status = "inaccurate";
            $pts
                =
            65;
        mysqli_stmt_bind_param($stmt, "sssss",
            $status, $category, $spec_cat, $pts,
            $deleteid);
        mysqli_stmt_execute($stmt);
            header("location:
                ./validation.php?error=statusupdated");
            exit();
        }
    } elseif($subcategory
        ==
    "raw_114"){
        $sql
            =
        "UPDATE
userarchive
SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
        $stmt
            =
        mysqli_stmt_init($conn);
            if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
                ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "1";
            $spec_cat = "1.1.4";
            $status = "inaccurate";
            $pts
                =
            55;
        mysqli_stmt_bind_param($stmt, "sssss",
            $status, $category, $spec_cat, $pts,
            $deleteid);
        mysqli_stmt_execute($stmt);
            header("location:
                ./validation.php?error=statusupdated");
            exit();
        }
    } elseif($subcategory
        ==
    "raw_115a"){
        $sql
            =
        "UPDATE userarchive
SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
        $stmt
            =
        mysqli_stmt_init($conn);
            if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
                ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "1";
            $spec_cat = "1.1.5 a.";
            $status = "inaccurate";
            $pts
                =
            45;
        mysqli_stmt_bind_param($stmt, "sssss",
            $status, $category, $spec_cat, $pts,
            $deleteid);
        mysqli_stmt_execute($stmt);
            header("location:
                ./validation.php?error=statusupdated");
            exit();
        }
    } elseif($subcategory
        ==
    "raw_115b"){
        $sql
            =
        "UPDATE userarchive
SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
        $stmt
            =
        mysqli_stmt_init($conn);
            if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
                ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "1";
            $spec_cat = "1.1.5 b.";
            $status = "inaccurate";
            $pts
                =
            50;
        mysqli_stmt_bind_param($stmt, "sssss",
            $status, $category, $spec_cat, $pts,
            $deleteid);
        mysqli_stmt_execute($stmt);
            header("location:
                ./validation.php?error=statusupdated");
            exit();
        }
    } else {
        $category = "1";
        $spec_cat = "1.1.6 a.";
        $status = "inaccurate";
        $pts
            =
        30;
        mysqli_stmt_bind_param($stmt, "sssss",
            $status, $category, $spec_cat, $pts,
            $deleteid);
        mysqli_stmt_execute($stmt);
            header("location:
                ./validation.php?error=statusupdated");
            exit();
    }
}

```

```

        if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
            ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "1";
            $spec_cat = "1.1.6 b.";
            $status = "inaccurate";
            $pts      = 25;
        mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $pts,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ./validation.php?error=statusupdated");
        exit();
    } elseif($subcategory == "raw_121"){
        $sql = "UPDATE userarchive
SET verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
        $stmt      =
        mysqli_stmt_init($conn);
        if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
            ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "1";
            $spec_cat = "1.3.1";
            $status = "inaccurate";
            $pts      = 1;
        mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $pts,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ./validation.php?error=statusupdated");
        exit();
    } elseif($subcategory == "raw_131"){
        $sql = "UPDATE userarchive
SET verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
        $stmt      =
        mysqli_stmt_init($conn);
        if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
            ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "1";
            $spec_cat = "1.3.1";
            $status = "inaccurate";
            $pts      = 1;
        mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $pts,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ./validation.php?error=statusupdated");
        exit();
    } elseif($subcategory == "raw_211"){
        $sql = "UPDATE userarchive
SET verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
        $stmt      =
        mysqli_stmt_init($conn);
        if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
            ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "2";
            $spec_cat = "2.1.1";
            $status = "inaccurate";
            $raw_real =
$inp_points;
        mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $raw_real,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ./validation.php?error=statusupdated");
        exit();
    } elseif($subcategory == "raw_212"){
        $sql = "UPDATE userarchive
SET verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
        $stmt      =
        mysqli_stmt_init($conn);
        if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
            ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "1";
            $spec_cat = "1.2.2";
            $status = "inaccurate";
            $pts      = 3;
        mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $pts,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ./validation.php?error=statusupdated");
        exit();
    } elseif($subcategory == "raw_22a"){
        $sql = "UPDATE userarchive
SET verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
        $stmt      =
        mysqli_stmt_init($conn);
        if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
            ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "2";
            $spec_cat = "2.2 a.";
            $status = "inaccurate";
            $raw_real =
$inp_points;
        mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $raw_real,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ./validation.php?error=statusupdated");
        exit();
    } elseif($subcategory == "raw_22b"){
        $sql = "UPDATE userarchive
SET verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
        $stmt      =
        mysqli_stmt_init($conn);
        if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
            ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "2";
            $spec_cat = "2.2 b.";
            $status = "inaccurate";
            $raw_real =
$inp_points;
        mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $raw_real,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ./validation.php?error=statusupdated");
        exit();
    } elseif($subcategory == "raw_22c"){
        $sql = "UPDATE userarchive
SET verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
        $stmt      =
        mysqli_stmt_init($conn);
        if
        (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location:
            ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "2";
            $spec_cat = "2.1.2";
            $status = "inaccurate";
            $raw_real =
$inp_points;
        mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $raw_real,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ./validation.php?error=statusupdated");
        exit();
    }
}

```



```

$subcategory == 'raw_312d3' ||
$subcategory == 'raw_312e1' ||
$subcategory == 'raw_312e2' ||
$subcategory == 'raw_312e3' ||
$subcategory == 'raw_313a' ||
$subcategory == 'raw_313b' ||
$subcategory == 'raw_313c' ||
$subcategory == 'raw_314'{

    if($subcategory == 'raw_311a1'){
        $sql = "UPDATE
userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
        $stmt = mysqli_stmt_init($conn);
        if(!mysqli_stmt_prepare($stmt, $sql)) {
            header("location: ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "3";
            $spec_cat = "3.1.1";
            $status = "inaccurate";
            $equiv31 = $inp_points;
        }
        mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
        mysqli_stmt_execute($stmt);
        header("location: ./validation.php?error=statusupdated");
        exit();
    } elseif($subcategory == 'raw_311a2ii'){
        $sql = "UPDATE
userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
        $stmt = mysqli_stmt_init($conn);
        if(!mysqli_stmt_prepare($stmt, $sql)) {
            header("location: ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "3";
            $spec_cat = "3.1.1";
            $status = "inaccurate";
            $equiv31 = $inp_points;
        }
        mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
        mysqli_stmt_execute($stmt);
        header("location: ./validation.php?error=statusupdated");
        exit();
    } elseif($subcategory == 'raw_311a2iii'){
        $sql = "UPDATE
userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
        $stmt = mysqli_stmt_init($conn);
        if(!mysqli_stmt_prepare($stmt, $sql)) {
            header("location: ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "3";
            $spec_cat = "3.1.1";
            $status = "inaccurate";
            $equiv31 = $inp_points;
        }
        mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
        mysqli_stmt_execute($stmt);
        header("location: ./validation.php?error=statusupdated");
        exit();
    }
}

$subcategory == 'raw_311a2ii'{
    $sql = "UPDATE
userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: ./validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.1";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }
    mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
    mysqli_stmt_execute($stmt);
    header("location: ./validation.php?error=statusupdated");
    exit();
} elseif($subcategory == 'raw_312a1'){
    $sql = "UPDATE
userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: ./validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.2 a.";
        $status = "inaccurate";
        $equiv31 = 7;
    }
    mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
    mysqli_stmt_execute($stmt);
    header("location: ./validation.php?error=statusupdated");
    exit();
} elseif($subcategory == 'raw_312a2'){
    $sql = "UPDATE
userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: ./validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.1";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }
    mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
    mysqli_stmt_execute($stmt);
    header("location: ./validation.php?error=statusupdated");
    exit();
}

```

```

        header("location:
        ..../validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.2 a.";
        $status = "inaccurate";
        $equiv31 = 5;
        mysqli_stmt_bind_param($stmt, "sssss",
        $status, $category, $spec_cat, $equiv31,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ..../validation.php?error=statusupdated");
        exit();
    }
} elseif($subcategory == 'raw_312a3'){
    $sql = "UPDATE
userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
        ..../validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.2 a.";
        $status = "inaccurate";
        $equiv31 = 5;
        mysqli_stmt_bind_param($stmt, "sssss",
        $status, $category, $spec_cat, $equiv31,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ..../validation.php?error=statusupdated");
        exit();
    }
}
elseif($subcategory == 'raw_312a3'){
    $sql = "UPDATE
userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
        ..../validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.2 a.";
        $status = "inaccurate";
        $equiv31 = 5;
        mysqli_stmt_bind_param($stmt, "sssss",
        $status, $category, $spec_cat, $equiv31,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ..../validation.php?error=statusupdated");
        exit();
    }
}
elseif($subcategory == 'raw_312b1'){
    $sql = "UPDATE
userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
        ..../validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.2 b.";
        $status = "inaccurate";
        $equiv31 = 3;
        mysqli_stmt_bind_param($stmt, "sssss",
        $status, $category, $spec_cat, $equiv31,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ..../validation.php?error=statusupdated");
        exit();
    }
}
elseif($subcategory == 'raw_312b1'){
    $sql = "UPDATE
userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
        ..../validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.2 b.";
        $status = "inaccurate";
        $equiv31 = 3;
        mysqli_stmt_bind_param($stmt, "sssss",
        $status, $category, $spec_cat, $equiv31,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ..../validation.php?error=statusupdated");
        exit();
    }
}
elseif($subcategory == 'raw_312c1'){
    $sql = "UPDATE
userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
        ..../validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.2 c.";
        $status = "inaccurate";
        $equiv31 = 3;
        mysqli_stmt_bind_param($stmt, "sssss",
        $status, $category, $spec_cat, $equiv31,
        $deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
        ..../validation.php?error=statusupdated");
        exit();
    }
}
elseif($subcategory == 'raw_312d1'){
    $sql = "UPDATE
userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);

```

```

if
(!mysqli_stmt_prepare($stmt, $sql)) {
    header("location:
..../validation.php?error=stmtfailed");
    exit();
} else {
    $category = "3";
    $spec_cat = "3.1.2 d.";
    $status = "inaccurate";
    $equiv31 = $inp_points;
}

mysqli_stmt_bind_param($stmt, "ssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
mysqli_stmt_execute($stmt);
header("location:
..../validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_312e1'){

    $sql = "UPDATE
userarchive SET verify_yn=?, verify_category=?, verify_subcat=?, verify_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..../validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.2 e.";
        $status = "inaccurate";
        $equiv31 = $inp_points;
}

    mysqli_stmt_bind_param($stmt, "ssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..../validation.php?error=statusupdated");
    exit();
}
} elseif($subcategory == 'raw_312d2'){

    $sql = "UPDATE
userarchive SET verify_yn=?, verify_category=?, verify_subcat=?, verify_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..../validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.2 d.";
        $status = "inaccurate";
        $equiv31 = $inp_points;
}

    mysqli_stmt_bind_param($stmt, "ssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..../validation.php?error=statusupdated");
    exit();
}
} elseif($subcategory == 'raw_312e2'){

    $sql = "UPDATE
userarchive SET verify_yn=?, verify_category=?, verify_subcat=?, verify_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..../validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.2 e.";
        $status = "inaccurate";
        $equiv31 = $inp_points;
}

    mysqli_stmt_bind_param($stmt, "ssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..../validation.php?error=statusupdated");
    exit();
}
} elseif($subcategory == 'raw_312f1'){

    $sql = "UPDATE
userarchive SET verify_yn=?, verify_category=?, verify_subcat=?, verify_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..../validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.2 f.";
        $status = "inaccurate";
        $equiv31 = $inp_points;
}

    mysqli_stmt_bind_param($stmt, "ssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..../validation.php?error=statusupdated");
    exit();
}
} elseif($subcategory == 'raw_312f2'){

    $sql = "UPDATE
userarchive SET verify_yn=?, verify_category=?, verify_subcat=?, verify_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..../validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.1.2 f.";
        $status = "inaccurate";
        $equiv31 = $inp_points;
}

    mysqli_stmt_bind_param($stmt, "ssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..../validation.php?error=statusupdated");
    exit();
}
} elseif($subcategory == 'raw_312f3'){

    $sql = "UPDATE
userarchive SET verify_yn=?,
```



```

        header("location:
..validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_3212'){
$sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
$stmt = mysqli_stmt_init($conn);
if
(!mysqli_stmt_prepare($stmt, $sql)) {
header("location:
..validation.php?error=stmtfailed");
exit();
} else {
$category = "3";
$spec_cat = "3.2.1.2";
$status = "inaccurate";
$equiv31 = $inp_points;

mysqli_stmt_bind_param($stmt, "sssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
mysqli_stmt_execute($stmt);
header("location:
..validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_3213c'){
$sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
$stmt = mysqli_stmt_init($conn);
if
(!mysqli_stmt_prepare($stmt, $sql)) {
header("location:
..validation.php?error=stmtfailed");
exit();
} else {
$category = "3";
$spec_cat = "3.2.1.3 c.";
$status = "inaccurate";
$equiv31 = $inp_points;

mysqli_stmt_bind_param($stmt, "sssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
mysqli_stmt_execute($stmt);
header("location:
..validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_3213a'){
$sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
$stmt = mysqli_stmt_init($conn);
if
(!mysqli_stmt_prepare($stmt, $sql)) {
header("location:
..validation.php?error=stmtfailed");
exit();
} else {
$category = "3";
$spec_cat = "3.2.1.3 a.";
$status = "inaccurate";
$equiv31 = $inp_points;

mysqli_stmt_bind_param($stmt, "sssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
mysqli_stmt_execute($stmt);
header("location:
..validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_3213b'){
$sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
$stmt = mysqli_stmt_init($conn);
if
(!mysqli_stmt_prepare($stmt, $sql)) {
header("location:
..validation.php?error=stmtfailed");
exit();
} else {
$category = "3";
}
$spec_cat = "3.2.1.3 b.";
$status = "inaccurate";
$equiv31 = $inp_points;

mysqli_stmt_bind_param($stmt, "sssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
mysqli_stmt_execute($stmt);
header("location:
..validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_3213c'){
$stmt = mysqli_stmt_init($conn);
if
(!mysqli_stmt_prepare($stmt, $sql)) {
header("location:
..validation.php?error=stmtfailed");
exit();
} else {
$category = "3";
$spec_cat = "3.2.2.1 b.";
$status = "inaccurate";
$equiv31 = $inp_points;

mysqli_stmt_bind_param($stmt, "sssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
mysqli_stmt_execute($stmt);
header("location:
..validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_3221c'){
$sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
$stmt = mysqli_stmt_init($conn);
if
(!mysqli_stmt_prepare($stmt, $sql)) {
header("location:
..validation.php?error=stmtfailed");
exit();
} else {
$category = "3";
$spec_cat = "3.2.2.1 c.";
$status = "inaccurate";
$equiv31 = $inp_points;

mysqli_stmt_bind_param($stmt, "sssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
mysqli_stmt_execute($stmt);
header("location:
..validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_3221a'){
$sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
$stmt = mysqli_stmt_init($conn);
if
(!mysqli_stmt_prepare($stmt, $sql)) {
header("location:
..validation.php?error=stmtfailed");
exit();
} else {
$category = "3";
$spec_cat = "3.2.2.1 a.";
$status = "inaccurate";
$equiv31 = $inp_points;

mysqli_stmt_bind_param($stmt, "sssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
mysqli_stmt_execute($stmt);
header("location:
..validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_3221b'){
$sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?,
verif_subcat=?, verif_pts=? WHERE
filename=?;";
$stmt = mysqli_stmt_init($conn);
if
(!mysqli_stmt_prepare($stmt, $sql)) {
header("location:
..validation.php?error=stmtfailed");
exit();
} else {
$category = "3";
$spec_cat = "3.2.2.2 a.";
$status = "inaccurate";
$equiv31 = $inp_points;

mysqli_stmt_bind_param($stmt, "sssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
mysqli_stmt_execute($stmt);
}
}

```

```

        header("location:
..validation.php?error=statusupdated");
exit();
}

} elseif($subcategory == 'raw_3222b'){
    $sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
    (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.2.2.3 a.";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }

    mysqli_stmt_bind_param($stmt, "sssss",
    $status, $category, $spec_cat, $equiv31,
    $deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..validation.php?error=statusupdated");
    exit();
}

} elseif($subcategory == 'raw_3223b'){
    $sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
    (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.2.2.2 b.";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }

    mysqli_stmt_bind_param($stmt, "sssss",
    $status, $category, $spec_cat, $equiv31,
    $deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..validation.php?error=statusupdated");
    exit();
}

} elseif($subcategory == 'raw_3222c'){
    $sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
    (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.2.2.2 c.";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }

    mysqli_stmt_bind_param($stmt, "sssss",
    $status, $category, $spec_cat, $equiv31,
    $deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..validation.php?error=statusupdated");
    exit();
}

} elseif($subcategory == 'raw_3223a'){
    $sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
    (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.2.2.3 a.";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }

    mysqli_stmt_bind_param($stmt, "sssss",
    $status, $category, $spec_cat, $equiv31,
    $deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..validation.php?error=statusupdated");
    exit();
}

} elseif($subcategory == 'raw_3224'){
    $sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
    (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.2.2.4";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }

    mysqli_stmt_bind_param($stmt, "sssss",
    $status, $category, $spec_cat, $equiv31,
    $deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..validation.php?error=statusupdated");
    exit();
}

} elseif($subcategory == 'raw_3225'){
    $sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
    (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.2.2.5";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }

    mysqli_stmt_bind_param($stmt, "sssss",
    $status, $category, $spec_cat, $equiv31,
    $deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..validation.php?error=statusupdated");
    exit();
}

} elseif($subcategory == 'raw_3226'){
    $sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
    (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.2.2.6";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }

    mysqli_stmt_bind_param($stmt, "sssss",
    $status, $category, $spec_cat, $equiv31,
    $deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..validation.php?error=statusupdated");
    exit();
}

```

```

        }
    } elseif($subcategory == 'raw_3227'){
        $sql = "UPDATE userarchive SET
            verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
            filename=?;";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location: ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "3";
            $spec_cat = "3.2.2.7";
            $status = "inaccurate";
            $equiv31 = $inp_points;
        }
        mysqli_stmt_bind_param($stmt, "ssss",
            $status, $category, $spec_cat, $equiv31,
            $deleteid);
        mysqli_stmt_execute($stmt);
        header("location: ./validation.php?error=statusupdated");
        exit();
    }
}

if($subcategory == 'raw_331a1'){
    $sql = "UPDATE userarchive SET
        verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
        filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: ./validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.3.1 a. 1";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }
    mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $equiv31,
        $deleteid);
    mysqli_stmt_execute($stmt);
    header("location: ./validation.php?error=statusupdated");
    exit();
}
}

elseif($subcategory == 'raw_331a2'){
    $sql = "UPDATE userarchive SET
        verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
        filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: ./validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.3.1 a. 2";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }
    mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $equiv31,
        $deleteid);
    mysqli_stmt_execute($stmt);
    header("location: ./validation.php?error=statusupdated");
    exit();
}
}

elseif($subcategory == 'raw_331b'){
    $sql = "UPDATE userarchive SET
        verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
        filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: ./validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.3.1 b";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }
    mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $equiv31,
        $deleteid);
    mysqli_stmt_execute($stmt);
    header("location: ./validation.php?error=statusupdated");
    exit();
}
}

elseif($subcategory == 'raw_331c'){
    $sql = "UPDATE userarchive SET
        verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
        filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: ./validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.3.1 c.";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }
    mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $equiv31,
        $deleteid);
    mysqli_stmt_execute($stmt);
    header("location: ./validation.php?error=statusupdated");
    exit();
}
}

elseif($subcategory == 'raw_331d1'){
    $sql = "UPDATE userarchive SET
        verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
        filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: ./validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.3.1 d. 1";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }
    mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $equiv31,
        $deleteid);
    mysqli_stmt_execute($stmt);
    header("location: ./validation.php?error=statusupdated");
    exit();
}
}

elseif($subcategory == 'raw_331d2'){
    $sql = "UPDATE userarchive SET
        verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
        filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: ./validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.3.1 d. 2";
        $status = "inaccurate";
        $equiv31 = $inp_points;
    }
    mysqli_stmt_bind_param($stmt, "ssss",
        $status, $category, $spec_cat, $equiv31,
        $deleteid);
    mysqli_stmt_execute($stmt);
    header("location: ./validation.php?error=statusupdated");
    exit();
}
}

```

```

        }
    } elseif($subcategory == 'raw_3321b'){
        $sql = "UPDATE userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location: ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "3";
            $spec_cat = "3.3.2.1 b.";
            $status = "inaccurate";
            $equiv31 = $inp_points;
            mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
            mysqli_stmt_execute($stmt);
            header("location: ./validation.php?error=statusupdated");
            exit();
        }
    } elseif($subcategory == 'raw_3321c'){
        $sql = "UPDATE userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location: ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "3";
            $spec_cat = "3.3.2.1 c.";
            $status = "inaccurate";
            $equiv31 = $inp_points;
            mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
            mysqli_stmt_execute($stmt);
            header("location: ./validation.php?error=statusupdated");
            exit();
        }
    } elseif($subcategory == 'raw_3322'){
        $sql = "UPDATE userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
        $stmt = mysqli_stmt_init($conn);
        if (!mysqli_stmt_prepare($stmt, $sql)) {
            header("location: ./validation.php?error=stmtfailed");
            exit();
        } else {
            $category = "3";
            $spec_cat = "3.3.2.2";
            $status = "inaccurate";
            $equiv31 = $inp_points;
            mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
            mysqli_stmt_execute($stmt);
            header("location: ./validation.php?error=statusupdated");
            exit();
        }
    }
}

$equiv31 = $inp_points;
mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
mysqli_stmt_execute($stmt);
header("location: ./validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_333a1'){
    $sql = "UPDATE userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: ./validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.3.3 a. 3";
        $status = "inaccurate";
        $equiv31 = $inp_points;
        mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
        mysqli_stmt_execute($stmt);
        header("location: ./validation.php?error=statusupdated");
        exit();
    }
} elseif($subcategory == 'raw_333a2'){
    $sql = "UPDATE userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: ./validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.3.3 a. 1";
        $status = "inaccurate";
        $equiv31 = $inp_points;
        mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
        mysqli_stmt_execute($stmt);
        header("location: ./validation.php?error=statusupdated");
        exit();
    }
} elseif($subcategory == 'raw_333a3'){
    $sql = "UPDATE userarchive SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if (!mysqli_stmt_prepare($stmt, $sql)) {
        header("location: ./validation.php?error=stmtfailed");
        exit();
    } else {
        $category = "3";
        $spec_cat = "3.3.3 a. 2";
        $status = "inaccurate";
        $equiv31 = $inp_points;
        mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
        mysqli_stmt_execute($stmt);
        header("location: ./validation.php?error=statusupdated");
        exit();
    }
}

if (!mysqli_stmt_prepare($stmt, $sql)) {
    header("location: ./validation.php?error=stmtfailed");
    exit();
} else {
    $category = "3";
    $spec_cat = "3.3.3 a. 3";
    $status = "inaccurate";
    $equiv31 = $inp_points;
    mysqli_stmt_bind_param($stmt, "sssss", $status, $category, $spec_cat, $equiv31, $deleteid);
    mysqli_stmt_execute($stmt);
    header("location: ./validation.php?error=statusupdated");
    exit();
}
}

```

```

                exit();
            }
        } elseif($subcategory == 'raw_333b3'){
            $sql = "UPDATE userarchive SET
            verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
            filename=?;";
            $stmt = mysqli_stmt_init($conn);
            if (!mysqli_stmt_prepare($stmt, $sql)) {
                header("location:
                ./validation.php?error=stmtfailed");
                exit();
            } else {
                $category = "3";
                $spec_cat = "3.3.3 b. 3";
                $status = "inaccurate";
                $equiv31 = $inp_points;
                mysqli_stmt_bind_param($stmt, "sssss",
                $status, $category, $spec_cat, $equiv31,
                $deleteid);
                mysqli_stmt_execute($stmt);
                header("location:
                ./validation.php?error=statusupdated");
                exit();
            }
        } elseif($subcategory == 'raw_333c3'){
            $sql = "UPDATE userarchive SET
            verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
            filename=?;";
            $stmt = mysqli_stmt_init($conn);
            if (!mysqli_stmt_prepare($stmt, $sql)) {
                header("location:
                ./validation.php?error=stmtfailed");
                exit();
            } else {
                $category = "3";
                $spec_cat = "3.3.3 c. 3";
                $status = "inaccurate";
                $equiv31 = $inp_points;
                mysqli_stmt_bind_param($stmt, "sssss",
                $status, $category, $spec_cat, $equiv31,
                $deleteid);
                mysqli_stmt_execute($stmt);
                header("location:
                ./validation.php?error=statusupdated");
                exit();
            }
        } elseif($subcategory == 'raw_333c1'){
            $sql = "UPDATE userarchive SET
            verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
            filename=?;";
            $stmt = mysqli_stmt_init($conn);
            if (!mysqli_stmt_prepare($stmt,
            $sql)) {
                header("location:
                ./validation.php?error=stmtfailed");
                exit();
            } else {
                $category = "3";
                $spec_cat = "3.3.3 c. 1";
                $status = "inaccurate";
                $equiv31 = $inp_points;
                mysqli_stmt_bind_param($stmt, "sssss",
                $status, $category, $spec_cat, $equiv31,
                $deleteid);
                mysqli_stmt_execute($stmt);
                header("location:
                ./validation.php?error=statusupdated");
                exit();
            }
        } elseif($subcategory == 'raw_333d1'){
            $sql = "UPDATE userarchive SET
            verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
            filename=?;";
            $stmt = mysqli_stmt_init($conn);
            if (!mysqli_stmt_prepare($stmt, $sql)) {
                header("location:
                ./validation.php?error=stmtfailed");
                exit();
            } else {
                $category = "3";
                $spec_cat = "3.3.3 d. 1";
                $status = "inaccurate";
                $equiv31 = $inp_points;
                mysqli_stmt_bind_param($stmt, "sssss",
                $status, $category, $spec_cat, $equiv31,
                $deleteid);
                mysqli_stmt_execute($stmt);
                header("location:
                ./validation.php?error=statusupdated");
                exit();
            }
        } elseif($subcategory == 'raw_333c2'){
            $sql = "UPDATE userarchive SET
            verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
            filename=?;";
            $stmt = mysqli_stmt_init($conn);
            if (!mysqli_stmt_prepare($stmt, $sql)) {
                header("location:
                ./validation.php?error=stmtfailed");
                exit();
            } else {
                $category = "3";
                $spec_cat = "3.3.3 c. 2";
                $status = "inaccurate";
                $equiv31 = $inp_points;
                mysqli_stmt_bind_param($stmt, "sssss",
                $status, $category, $spec_cat, $equiv31,
                $deleteid);
                mysqli_stmt_execute($stmt);
                header("location:
                ./validation.php?error=statusupdated");
                exit();
            }
        } elseif($subcategory == 'raw_333d2'){
            $sql = "UPDATE userarchive SET
            verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
            filename=?;";
            $stmt = mysqli_stmt_init($conn);
            if (!mysqli_stmt_prepare($stmt, $sql)) {
                header("location:
                ./validation.php?error=stmtfailed");
                exit();
            } else {
                $category = "3";
                $spec_cat = "3.4 a";
                $status = "inaccurate";
                $equiv31 = $inp_points;
                mysqli_stmt_bind_param($stmt, "sssss",
                $status, $category, $spec_cat, $equiv31,
                $deleteid);
                mysqli_stmt_execute($stmt);
                header("location:
                ./validation.php?error=statusupdated");
                exit();
            }
        }
    }
}

```

```

        header("location:
..validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_34b'){
    $sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
exit();
} else {
    $category = "3";
    $spec_cat = "3.4 b";
    $status = "inaccurate";
    $equiv31 = $inp_points;
    mysqli_stmt_bind_param($stmt, "sssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_34c'){
    $sql = "UPDATE userarchive SET
verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
exit();
} else {
    $category = "3";
    $spec_cat = "3.4 c";
    $status = "inaccurate";
    $equiv31 = $inp_points;
    mysqli_stmt_bind_param($stmt, "sssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_351'){
    $sql = "UPDATE userarchive
SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
exit();
} else {
        $category = "3";
        $spec_cat = "3.6.1 a";
        $status = "inaccurate";
        $equiv31 = $inp_points;
        mysqli_stmt_bind_param($stmt, "sssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
        mysqli_stmt_execute($stmt);
        header("location:
..validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_361a'){
    $sql = "UPDATE userarchive
SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
exit();
}
} elseif($subcategory == 'raw_361b'){
    $sql = "UPDATE userarchive
SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
exit();
}
} elseif($subcategory == 'raw_361c'){
    $sql = "UPDATE userarchive
SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
exit();
}
} else {
    $category = "3";
    $spec_cat = "3.6.1 c";
    $status = "inaccurate";
    $equiv31 = $inp_points;
    mysqli_stmt_bind_param($stmt, "sssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..validation.php?error=statusupdated");
exit();
}
} elseif($subcategory == 'raw_361d'){
    $sql = "UPDATE userarchive
SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
exit();
}
} elseif($subcategory == 'raw_361e'){
    $sql = "UPDATE userarchive
SET verify_yn=?, verif_category=?, verif_subcat=?, verif_pts=? WHERE
filename=?;";
    $stmt = mysqli_stmt_init($conn);
    if
(!mysqli_stmt_prepare($stmt, $sql)) {
        header("location:
..validation.php?error=stmtfailed");
exit();
}
} else {
    $category = "3";
    $spec_cat = "3.6.1 d";
    $status = "inaccurate";
    $equiv31 = $inp_points;
    mysqli_stmt_bind_param($stmt, "sssss",
$status, $category, $spec_cat, $equiv31,
$deleteid);
    mysqli_stmt_execute($stmt);
    header("location:
..validation.php?error=statusupdated");
exit();
}
}

```



# NEM Blockchain

## Apostille.js

```
//If not installed yet: npm install mysql;
npm install nem-sdk; Connect to nbc2 database
// Import the libraries mysql, NEM-sdk, file system, config (for database info).
let nem = require('nem-sdk').default; const mysql = require('mysql'); const config = require('./config.js');
let fs = require('fs'); const process = require('process'); const args = process.argv
const connection = mysql.createConnection(config);
let email = args[2]; let filename = args[3];
// Create custom endpoint to connect with an NIS.
var url = "https://nistest.opening-line.jp"
var port = 7891
var endpoint = nem.model.objects.create("endpoint")(url, port);
// Create a common object holding key
var privateKey = ""; //Insert privateKey
var password = ""; //Insert password
var common = nem.model.objects.create("common")(password, privateKey);
let filenameLoc = "./apostillefiles/" + filename;
var fileContent = fs.readFileSync(filenameLoc, 'hex'); var fileTags = "Summary of Points";

function waitingTime() {}
function createApostille() {
    let hashkey;
    return new Promise((resolve, reject) => {
        //Create the apostille
        var apostille = nem.model.apostille.create(common, filenameLoc, fileContent, fileTags, nem.model.apostille.hashing["SHA256"], false, "", true, nem.model.network.data.testnet.id);
        //execute transaction 3s later
        setTimeout(waitingTime, 3000);
        // Serialize transfer transaction and announce
        nem.model.transactions.send(common, apostille.transaction, endpoint).then((res) => {
            // If code >= 2, it's an error
            if (res.code >= 2) {
                console.error(res.message);
            } else {
                hashkey = (res.transactionHash.data).toString();
                resolve(hashkey);
            }, (err) => { console.error(err); });
        });
    });
}
```

```
function dbInputHash(hashkey) {
    let result; let qryHashIn = "UPDATE nbc2.apostillehash SET hashkey = ? WHERE email = ?";
    return new Promise((resolve, reject) => {
        connection.query(qryHashIn, [hashkey, email], (err, result) => {
            if (err) { throw err; }
            else { resolve(result); }
        });
    });
    //1st function: get transaction hashkey for the document
    createApostille().then(hashkey => {
        console.log(hashkey);
        setTimeout(waitingTime, 2000);
        //2nd function: input transaction hashkey in the database
        dbInputHash(hashkey).then(result => {
            console.log('Hashkey is on the database now!'); connection.end();
        }).catch((err) => { console.log('Error has occurred:' + err); });
        }.catch((err) => { console.log('Error has occurred:' + err); });
    });
}
```

## Audit.js

```
// Import the libraries mysql, NEM-sdk, file system, config (for database info).
let nem = require('nem-sdk').default; const mysql = require('mysql'); const config = require('./config.js');
let fs = require('fs'); const process = require('process'); const args = process.argv
const connection = mysql.createConnection(config);
let email = args[2]; let filename = args[3];
let userhashkey = args[4];
// Create custom endpoint to connect with an NIS.
var url = "https://nistest.opening-line.jp"
var port = 7891
var endpoint = nem.model.objects.create("endpoint")(url, port);
// Create a common object holding key
var privateKey = ""; var password = "";
var common = nem.model.objects.create("common")(password, privateKey);
let filenameLoc = "./apostillefiles/" + filename; var fileContent = fs.readFileSync(filenameLoc, 'hex'); var fileTags = "Summary of Points";
function waitingTime() {}
function
dbInputUserHashkey(userhashkey) {
    let qryUserHKin; let qryUserHashkeyIn = "UPDATE nbc2.apostillehash SET user_hashkey = ? WHERE email = ?";
    return new Promise((resolve, reject) => {
        connection.query(qryUserHashkeyIn, [userhashkey, email], (err, result) => {
            if (err) { throw err; }
            else { qryUserHKin = result; resolve(qryUserHKin); }
        });
    });
}
```

```
function auditVerify(userhashkey) {
    let auditResult;
    return new Promise((resolve, reject) => {
        nem.com.requests.transaction.byHash(endpoint, userhashkey).then((res) => {
            if (err) { throw err; }
            else { qryUserHKin = result; resolve(qryUserHKin); }
        });
    });
}
function auditResult = "valid";
resolve(auditResult);
console.log("Apostille is valid.");
} else {
    auditResult = "invalid";
    resolve(auditResult);
    console.log("Apostille is invalid.");
}, (err) => {
    auditResult = "erroroccurred";
    resolve(auditResult); console.log("User input hashkey did not match.");
});
}
function dbInputAudit(auditResult) {
    let qryResult; let qryAuditIn = "UPDATE nbc2.apostillehash SET audit = ? WHERE email = ?";
    return new Promise((resolve, reject) => {
        connection.query(qryAuditIn, [auditResult, email], (err, result) => {
            if (err) { throw err; }
            else { qryResult = result; resolve(qryResult); }
        });
    });
}
dbInputUserHashkey(userhashkey).then(qryUserHKin => {
    console.log('User input hashkey inserted!'); });
setTimeout(waitingTime, 1000);
auditVerify(userhashkey).then(auditResult => {
    setTimeout(waitingTime, 1000);
});
```

```
dbInputAudit(auditResult).then(qryResult => {
    console.log('Audit result is on database now!'); connection.end();
    console.log('Blockchain transaction ended');
}).catch((err) => { console.log('Error has occurred:' + err); });
});
```

## config.js

```
let config = { host: 'localhost', user: 'root', password: "admin", database: "nbc2" };
module.exports = config;
```

## **APPENDIX B**

### Specifications

# **Hardware Specifications**

## **Fortress F160TM Touchscreen Monitor**

### **Display Specification:**

Screen/Panel size	15.6" (16:9 aspect ratio)
Screen/Panel type	LCD Touchscreen (5-wire resistive) Film/Glass
Backlight	LED (Light-emitting diode)
Maximum resolution	1366 x 768 @ 60Hz
Pixel pitch	0.252
Brightness	250cd/m <sup>2</sup> (Typical)
Color support	252k
Contrast ratio	800:1
Viewing angle	H150/V110
Video signal	Analog RGB
Video interface	VGA, HDMI

### **Touch Panel Specification**

Capacitive touch chip	ILITEK
Touch point	10,000,000 times
Response time	<3ms
Light transmission	≥85%
Connector type	USB
Surface hardness	≥6H
Materials	GLASS+GLASS
Cover thickness	1.1mm
Sensor thickness	0.7mm
Working voltage	5V
Working temperature	-10 ~ +70°C
Storage temperature	-20 ~ +70°C
Power consumption	≤30W
Stand-by power	<2W

### **Working Condition**

Working voltage	5V
Storage temperature	-20 ~ +70°C
Operating temperature	-10 ~ +60°C
Operating humidity	20% ~ 95%
External power adapter	Input: AC 100~220V @ 50/60Hz, Output: 12V, 2A

## Canon Canoscan Lide 300 Scanner

### General Specifications

Scanner type	Flatbed
Sensor type	CIS
Light source	3-color (RGB) LED
Optical resolution *1	2400 x 2400 dpi
Selectable resolution	25 – 19200 dpi (ScanGear)
Scanning bit depth	Color: 48-bit input (16-bit input for each color (RGB))/ Windows: 48-bit or 24-bit output (16-bit or 8-bit output for each color (RGB)) *2 Mac: 24-bit output (8-bit output for each color (RGB)) Grayscale: 16-bit input or 8-bit output
Interface	USB2.0 High-Speed Mini-B *3 *4
Maximum document size	A4/Letter (8.5" x 11.7"/216 x 297 mm)
Scanner buttons	4 buttons (PDF, AUTO SCAN, COPY, SEND)
Operating Environment	Temperature: 41 to 95 °F (5 to 35 °C) Humidity: 10 - 90 % RH (no condensation)
Power supply	Supplied via USB port (No external adapter required)
Power consumption	In operation (max.): Approx. 4.5 W Stand-by: Approx. 0.3 W *5
External dimensions	Approx. 9.9 (W) x 14.5 (D) x 1.7 (H) inches (250 x 367 x 42 mm)
Weight	Approx. 3.6 lbs (1.7 kg)

\*1 Optical resolution represents the maximum sampling rate based on ISO 14473.

\*2 The 48-bit output is supported only when using the TWAIN driver for Windows.

\*3 The scanner is designed to produce optimal results when connected to a USB 3.0 or higher port with the supplied USB cable. Connect the USB cable supplied with the scanner to a USB 3.0 or higher port. (The supplied USB cable is for the scanner only.) It cannot be used for other devices.

\*4 To use Hi-Speed USB, computer must support Hi-Speed USB.

Additionally, Hi-Speed USB interface is completely backward compatible with USB 1.1, so connection is possible even if computer interface is USB 1.1.

\*5 USB connection to PC.

### Minimum System Requirements

Conform to the operating system's requirements when higher than those given here.

#### Windows

Operating system	Windows 10, Windows 8.1, Windows 7 SP1 Note: Computer with Windows 7 or later pre-installed
Hard disk space	3.0 GB Note: For bundled software installation. The necessary amount of hard disk space may be changed without notice.
Display	XGA 1024 x 768

#### macOS

Operating system	OS X 10.11, macOS 10.12 to macOS 10.13
------------------	----------------------------------------

Hard disk space	1.5 GB Note: For bundled software installation. The necessary amount of hard disk space may be changed without notice.
Display	XGA 1024 x 768

## Canon MG2540S 3-in-1 Printer, Scanner, and Copy

### General Specifications

Model numbers	MG2540S MG2545S <sup>1</sup>
Functions	Print, Copy, Scan

### Printer Specifications

Print resolution	Up to 4800 <sup>1</sup> x 600 dpi
Print technology	2 FINE Cartridges (Black and Colour)
Mono print speed	Approx. 8.0 ipm <sup>1</sup>
Colour print speed	Approx. 4.0 ipm <sup>1</sup>
Borderless printing	Not available
Two-sided printing	Manual operation

### Cartridges and Yields

Standard ink cartridges	PG-445 (Black) CL-446 (Colour)
Optional XL ink cartridges	PG-445XL (Black) CL-446XL (Colour)
Cartridge yield (plain paper)	A4 colour documents printing <sup>1</sup> Black: 180 pages Black XL: 400 pages Colour: 180 pages Colour XL: 300 pages

### Paper Support

Paper types	Plain Paper Envelopes Photo Paper Plus Glossy II (PP-201) Photo Paper Glossy "Everyday Use" (GP-501)
Maximum paper input	Rear tray: Max. 60 sheets (plain paper)
Paper sizes	Plain paper: A4, A5, B5, Letter, Legal Photo paper: 10x15cm, 13x18cm Envelopes: DL, COM10
Paper weight	Plain paper: 64 - 105 g/m <sup>2</sup> Canon photo paper: up to 275 g/m <sup>2</sup>

### Scanner Specifications

Scanner type	CIS flatbed photo and document scanner
Scanner resolution (optical)	600 x 1200 dpi <sup>1</sup>
A4 scan speed	Approx. 14 seconds <sup>1</sup>
Scanning depth (input/output)	Colour: 48 bit / 24 bit Greyscale: 16 bit / 8 bit
Maximum document size	216 x 297 mm

### Copier Specifications

Copy speed	sFCOT: Approx. 31 seconds <sup>1</sup> sESAT: Approx. 1.6 ipm <sup>1</sup>
Multiple copy	21 copies (max.)
Copy functions	Document copying (plain paper)

## Interface

Display type & size	No display
Interface type (PC/Mac)	Hi-Speed USB (B Port)

## Software

Supported operating systems	Windows 10, Windows 8.1 (including Windows 8.1 Update), Windows 8, Windows 7, Windows 7 SP1, Windows Vista SP2, Windows XP SP3 (32 bit only) Note: For Windows, .NET Framework 4 or .NET Framework 4.5 is required. For Windows XP, XPS Essentials Pack is required. Mac OS X v10.7.5 to Mac OS X v10.11
Minimum system requirements	Windows: 3.1GB disk space, Internet Explorer 8 Mac: Internet connection, 1.5GB disk space, Safari 5 Display: 1024 x 768 XGA
Software included	MP Driver including Scanning Utility My Image Garden with Full HD Movie Print <sup>1</sup> Quick Menu Easy-WebPrint EX (download) <sup>2</sup>

## Physical Features

Weight	Approx. 3.5 kg
Dimensions (W x D x H)	426 x 306 x 145mm
Operating temperature	5–35°C
Operating humidity	10–90% RH (no dew condensation)
Power source	AC 100–240V, 50/60Hz
Power consumption	Off: Approx. 0.4 W Standby (connected to PC via USB): Approx. 1.0 W (scanning lamp off) Standby (all ports connected): Approx. 1.0 W (scanning lamp off) Time to enter Standby mode: 7 minutes Copying: Approx. 9 W <sup>1</sup>

<sup>1</sup> Some models may not be available in your region.

<sup>1</sup> Ink droplets can be placed with a minimum pitch of 1/4800 inch

<sup>1</sup> A4 document print speed on plain paper is measured based on average of ESAT in Office Category Test of ISO/IEC 24734 standard.

<sup>1</sup> A4 document print speed on plain paper is measured based on average of ESAT in Office Category Test of ISO/IEC 24734 standard.

<sup>1</sup> Declared yield value in accordance with ISO/IEC 24711 standard. Values obtained by continuous printing.

<sup>1</sup> Optical resolution is a measure of maximum hardware sampling resolution based on ISO 14473 standard. When scanning in high resolution, the maximum scan size is restricted.

<sup>1</sup> Color document scan speed is measured with ISO/IEC 29183 Target A. Scan speed indicates the time measured between pressing the scan button of the scanner driver and the on-screen status display turns off. Scan speed may vary depending on system configuration, interface, software, scan mode settings and document size etc.

<sup>1</sup> Colour document copy speed is measured based on average of sFCOT and sESAT in Performance Test of ISO/IEC 29183 standard.

<sup>1</sup> Full HD Movie Print is available for MOV and MP4 movie files created by select Canon digital cameras and camcorders. Requires installation of software bundled with Canon video or digital camera, from which the movie was captured. MOV

files require: ZoomBrowser EX / ImageBrowser (version 6.5 or later), MP4 files require: ImageBrowser EX (version 1.0 or later).

<sup>2</sup> Easy-WebPrint EX requires Internet Explorer 8 or later.

<sup>1</sup> When copying ISO/JIS-SCID N2 (printed by inkjet printer) on A4 size plain paper using default settings.

## Secure AVR

### Product Specifications

Model	Secure AVR
Device	Solid State Electronic Device
Voltage	220V AVR
Power consumption	500 Watts
Maximum capacity	50VA
Fuse	5A
Socket	3 x 220V
Dimensions	17cm x 9.4cm x 10.67cm
Material	Compact powder coated metal case
Features	Designed to control instant peak voltage from reaching your sensitive computers Short circuit and overload protection High performance AVR

## System Unit

### General Specifications

Processor	Intel Core i3 2 <sup>nd</sup> Generation
Memory	4 Gb DDR3 RAM
Hard disk drive	500 Gigabytes
Graphics card	2 Gigabytes

## USB Hub/Splitter

### General Specifications

Adapter type	Dual Band USB
Maximum data rate	600 Mbps
Band frequencies	5 GHz, 2.4 Ghz
Router	802.11ac
Functions	Mini WiFi Dongle Wireless Adapter Receiver

## WiFi Dongle

### Device Parameters

Device code	ORICO G11-H4-U3
Material	ABS (Acrylonitrile butadiene styrene)

Output interface	USB3.0*4
Input interface	USB3.0 Type-A, Micro USB 5V
Data cable	100 cm
Indicator	Blue LED Indicator
Certificate	CE, FCC, RoHS
Dimensions	86*50*17mm

## Software Specifications

### GoDaddy Domain: .COM domain, 1-year subscription

#### Registration Restrictions

- i. Must use: 3-63 characters
- ii. Can use: Letters (a-z characters), numbers (0-9) and hyphens (except in the 3rd or 4th characters of the domain name)
- iii. Cannot use: Special characters (e.g., & and #)
- iv. IDNs: Not supported

#### Features/Inclusions

- i. Registration length: 1 year
- ii. Backorders: Supported
- iii. Transfers to GoDaddy: Supported
- iv. Transfers away from GoDaddy: Supported
- v. Transfers to another GoDaddy account: Supported
- vi. Basic privacy protection: Supported
- vii. Protection plan upgrades: Supported
- viii. CashParking: Supported
- ix. Contact Updates: Supported

#### Nameserver Requirements

- i. Can use: DNSSEC, IPv4, IPv6

### Virtual Server: AWS EC2 (t3.medium) instance (windows 2019 server)

#### Features

- i. Supports many OSes, including Linux, Microsoft Windows Server, CentOS and Debian
- ii. Amazon's Elastic IP service that lets IP addresses be associated with an instance, without requiring admin help
- iii. Allows monitoring of AWS cloud services and the applications deployed on AWS (CloudWatch)
- iv. Automated scaling, for more capacity and tolerance to heavy traffic
- v. Bare-metal instances
- vi. Fleet, which enables the deployment and management of instances as a single virtual server
- vii. Pause and resume instances

## **Block Level Storage: Amazon Elastic Block Storage**

### **Use Case and Performance Characteristics**

Volume type	EBS General Purpose SSD (gp2)*
Short description	General Purpose SSD volume that balances price performance for a wide variety of transactional workloads
Durability	99.8% - 99.9% durability
Use case	Virtual desktops, medium sized single instance databases such as Microsoft SQL Server and Oracle, latency sensitive interactive applications, boot volumes, and dev/test environments
API name	gp2
Volume size	1 GB – 16 TB
Max IOPS**/Volume	16,000
Max Throughput***/Volume	250 MB/s
Max IOPS/Instance	260,000
Max Throughput/Instance	7,500 MB/s
Latency	single digit millisecond
Dominant Performance Attribute	IOPS

\*Default volume type

\*\*Not currently supported by EC2 R5b instances

\*\*\*Volume throughput is calculated as MB = 1024^2 bytes

## **SMTP Server: SendinBlue email SMTP (free trial)**

### **Features**

- i. SMTP server free for up to 300 emails a day
- ii. Send bulk email
- iii. Top class deliverability
- iv. Rapid email delivery
- v. Trusted sender reputation
- vi. Send transactional emails
- vii. Send emails from other apps and websites
- viii. Automation workflows
- ix. Analyze email delivery and engagement
- x. Protect your sender reputation

# **APPENDIX C**

## User Manual



A step-by-step guide to getting started on  
the NBC2 iPromote Kiosk and Web  
Application.

# NBC2 iPromote Instruction Manual



# TABLE OF CONTENTS

	<b>Page</b>
Table of Contents .....	i
<b>Section 1 – Getting Started .....</b>	<b>1</b>
Introduction .....	1
Specifications .....	1
Quick Start Guide (Assembling the Kiosk) .....	2
How to Turn on the Kiosk .....	3
NBC2 iPromote Web Application Features .....	3
 <b>Section 2 – How to Use the Kiosk .....</b>	<b>5</b>
Health Protocols .....	5
As a Faculty Member .....	6
Creating an Account .....	6
Uploading Documents and Awarding of Credit Points .....	6
Downloading and Printing of Detailed Summary Result .....	7
Verifying Apostille of Result .....	7
Available Training .....	7
Uploaded Documents Archive .....	8
Account Settings .....	8
As an Admin (Department Head/Local Evaluator) .....	9
Sending Pseudocode to Faculty Members .....	9
Managing Users .....	9
Create Training .....	9
Manual Document Classification .....	9
Validation Section .....	10
Account Settings .....	10

## **SECTION 1 – GETTING STARTED**

### **INTRODUCTION**

NBC 2 kiosk is a technology developed that can scan, store, sort, and save both hardcopy and softcopy documents as well as to allocate points in accordance with the NBC 461 guidelines using optical character recognition (OCR) and machine learning. NEM Blockchain's Apostille service was integrated in the system to notarize the result and record it to blockchain to ensure its authenticity and security. The current promotion scheme of faculty members in accordance with NBC 461 is applied to State Universities and Colleges (SUC), CHED-supervised Higher Education Institutions (HEIs) and TESDA-supervised Technical Education Institutions (TEIs).

### **SPECIFICATIONS**

**Fortress Touchscreen Monitor** – The unit has a screen size of 15.6 inches, that is the right size for the user to see and read clearly the web app on the screen.

**CanoScan Lide 300 Scanner** – The unit has an optical resolution of 2400 x 2400 dpi and has a scanning speed of approximately 10 seconds for A4 documents. It will be used to scan the hardcopy documents of the user.

**Canon MG2540 Printer** – The unit has a print resolution of 4800 x 600 dpi and has a print speed of approximately 12 seconds per page. It will be used to print the PDF of the notarized summary of points.

**System Unit** – It has an Intel Core i3 2 nd Gen processor, 4 Gb DDR3 RAM, 500 Gb Hard Disk Drive, and 2 Gb graphics card.

**Secure AVR** – The unit is a 220-Volt AVR, which will serve as the power supply of the kiosk.

**WiFi Dongle** – The unit is a dual-band Wi-Fi adapter with frequency range of 2.4 GHz and 5 Ghz, and a transmission rate of 600 Mbps, that will allow the system to access the internet.

**USB Ports** – It is a standard cable connection interface to be used for users to upload softcopy of their documents.

## QUICK START GUIDE (ASSEMBLING THE KIOSK)

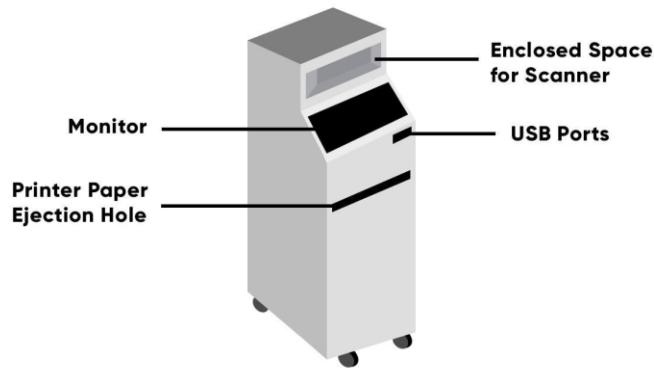
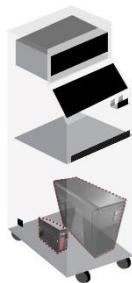


Figure 1. Kiosk Parts

### HOW TO ASSEMBLE THE KIOSK

1



Place the system unit and AVR in the lower section of the kiosk.

2



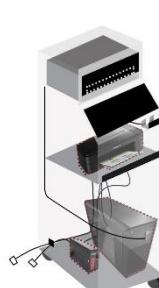
Place the printer in the middle section of the kiosk. Ensure that the printer's ejection hole is at the front of the paper ejection hole of the kiosk.

3



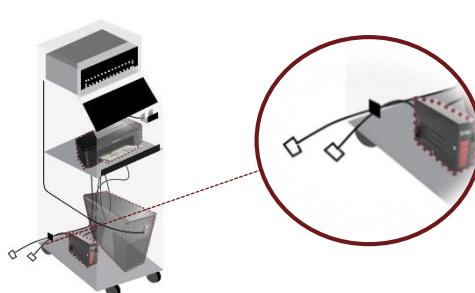
Place the scanner in the upper enclosed space section of the kiosk.

4



Connect the devices and using the cable clips attached to the interior walls of the kiosk, organize the wiring.

5



Take the printer and AVR plugs out through the opening on the lower left side of the kiosk, as this will be plugged into the socket to power the devices.

## HOW TO TURN ON THE KIOSK

1. Plug the AVR and the Printer into the socket.
2. Turn on the AVR then click the 'Power' button of the system unit.
3. Click the 'Power' button of the printer.
4. Make sure that sufficient amount of A4 bond papers are loaded in the printer.
5. Go to Google Chrome and then to NBC2 iPromote's website, [www.nbcipromote.com](http://www.nbcipromote.com).

## NBC2 iPromote WEB APPLICATION FEATURES

### Registration Page

The Registration Page is where the user creates an account to use the system by entering information such as first name, last name, valid email address, password, department, and pseudocode that is given to faculty members beforehand to avoid creating multiple accounts and to allow only authorized persons to have access to the system.

### Login Page/Landing Page

The Login Page/Landing Page is where the user enters a valid email and password to enter the system. A forgot password button will direct the user to a page where they will enter an email address they used upon signing up, and they will be sent a link where they can reset their password.

### About Page

The About Page displays the information about the web application and the developer profiles.

### Forgot Password Page

The Forgot Password Page is where the user can have a reset password link sent to them by entering an email address they used upon signing up.

### Admin Login Page

The Admin Login Page is where the admin or the department heads can log in by entering their username and password.

### User Home Page

The Home Page displays the user's account, import section employee credit view, files archive, audit, FAQs, and log out section.

### **Import PDF Section Page**

The Import Section Page shows an option for the user to upload the documents and certificates they want to be evaluated. This page also shows the accumulated credit points based on the documents or certificates uploaded.

### **Employee Credit View Page**

The Employee Credit View Page displays the three main criteria for the evaluation. The three main criteria are the Education Background, Experience and Length of Service, and Professional Development, Achievement and Honors. This page shows the target maximum points for each criterion and the credit points earned by the user. The Training Available button is where the future seminars and conferences that can be attended by the faculty members set by the administrator are displayed to the users.

### **Print Summary Page**

The Print Summary Page previews or displays the detailed summary of points obtained by the user. It allows the user to view the point allocation in every category and print a hard copy. The printed document is notarized with the use of the NEM Apostle Blockchain service. A preview of the criteria where the user is lacking points is also displayed. The user would have to download a compilation of their results on the 'Employee Credit View' page, then print both the detailed summary and NEM Apostille certificate for the PDF file to be notarized by NEM Blockchain Apostille Service.

### **Files Archive Page**

The Files Archive Page contains all the documents uploaded by the user. The user has the option to download, preview a PDF file, and delete. The documents are sorted according to their corresponding category. The results generated by the system are also stored on this page.

### **Audit Page**

The Audit page is where the users can verify if their detailed summary pdf file is successfully recorded to NEM Blockchain by uploading their downloaded detailed summary file and entering its generated notary transaction hash key.

### **User Profile Settings Page**

The User Profile Settings Page is where the user can upload a profile photo, as well as change or update their password.

## FAQs Page

The FAQs Page shows an accordion of different possible questions that may be asked by the user regarding the functionality of the technology. The instruction as to how to use the system is also displayed.

## Administrator Home Page

The Administrator Home Page is where the administrator controls and reconfigures the training suggestions, adds users, or sends an email to faculty members with a generated pseudocode.

## Training View Page

The Training View Page is where the administrator sets future seminars and conferences that can be attended by the faculty members.

## Users View Page

Users View Page is where information about the users is displayed. The admin can delete, add users, search, and send an email to faculty members with a generated pseudocode that they can use upon signing up.

## Administrator Profile Settings Page

The Administrator Profile Setting Page allows the admin to change their profile photo and change or update their password.

## **Section 2 – How to Use the Kiosk**

### HEALTH PROTOCOLS

The following health protocols must be strictly observed before, during, and after using the kiosk:

1. The faculty must sanitize their hands before and after the transaction. An alcohol dispenser is mounted at the right side of the kiosk.
2. The faculty members must wear their facemask during the transaction.
3. Only one faculty member should be in the area of the kiosk.
4. Maintain at least one-meter distance from each other at all times.

## HOW TO USE THE KIOSK AS A FACULTY MEMBER

### Creating an Account

An email will be sent to the faculty member's TUP Gmail account containing the pseudocode that will be used upon creating an account. Then, go to [www.nbcipromote.com](http://www.nbcipromote.com) or click the hyperlink included in the invitation email.

On the NBC2 iPromote portal's menu, go to the 'Register' page and create an account by filling out the required information.

### Uploading Documents and Awarding of Credit Points

**Step 1:** After creating an account, log in using the credentials you used upon registration.

**Step 2:** After logging in, scan your documents on the scanner of the kiosk and save it in PDF format. If you already have a digital copy, you can transfer the document from your flash drive to the kiosk. One document must be saved as a single PDF file, do not combine separate documents in one PDF file.

**Step 3:** Go to 'Import PDF' page and upload your PDF file, then click the 'Start' button. Do this one at a time.

**Step 4:** The system will then process your document and allocate their corresponding credit points.

**Step 5:** Repeat steps 3 and 4 for the remaining document files.

A prompt will appear indicating that the upload is successful and details such as the filename, points awarded, status, and the date when it was uploaded will be shown.

The status of your document may be one of the following:

- a) **COMPLETED** – The document is successfully uploaded and points equivalent are credited to the database.
- b) **Pending (NNF)** – The system did not/failed to detect the name on the document uploaded.
- c) **Pending (DNWC)** – The system detected that the document uploaded was issued on a date not within the current cycle.
- d) **DECLINED** – The admin refused to award points to the document submitted.
- e) **Max Points** – The user has reached the maximum number of points in a certain subcategory. The system will no longer add points regardless of whether the document is valid.

If the status of the file falls under either of the 'Pending' status, it will be manually assessed by the admin.

## Downloading Detailed Summary Result

Your total credit points in each main category will be shown on the 'Employee Credit View' page.

You have the option to print a summary of your current credit points along with your NEM Apostille certificate or points that you lack per category.

Downloading a compilation of your results first by clicking the 'Download Results' button to generate a corresponding hashkey before printing your detailed summary and NEM Apostille certificate by clicking the 'Print Detailed Summary' button, is a must. If you choose not to, your NEM Apostille certificate's notary transaction hashkey will be left blank when you print your detailed summary result. If the user did not print their detailed summary and NEM Apostille certificate after downloading their results, they can print their files without having to download their compiled results the next time they log back in. One 'Download Results' click is equal to One 'Print Detailed Summary' click.

The generated summary of points PDF file is notarized by NEM Blockchain's Apostille Service. The NEM Apostille notarizes your detailed summary result every time you click the 'Download Results' button and generates a new transaction hashkey.

## Verifying Apostille of Result

**Step 1:** On the 'Employee Credit View' page, click the Download Results button to download a compilation of your results (Detailed Summary and NEM Apostille Certificate PDF files).

**Step 2:** On the 'Audit' page, upload your Detailed Summary PDF file and enter the notary transaction hash key that can be found on the NEM Apostille certificate.

**Step 3:** If the system returns that the Apostille is Valid, no changes were made to the PDF file. However, if the system returns Invalid, changes were made or the PDF file was manipulated. If error occurred, an invalid notary transaction hash key might have been entered.

## Available Training

On the 'Employee Credit View' page, a 'Training Available' button can be seen at the bottom of the table. Once clicked, a modal will appear containing the details

of future trainings, events, or seminars that the faculty can attend to increase their points. A certain faculty can only view trainings suggested by their respective admin or their department head.

## Uploaded Documents Archive

'Files Archive' contains an archive of all of your submitted files, which you can preview, download, and/or delete for future use. If you download it, it will save all of the selected files in a zip file. Previewing the file also allows you to print it through the kiosk's printer.

## Account Settings

You can update your profile photo as well as your password on the 'Profile' page. Other information, such as your name, email address, and department, cannot be changed.

## HOW TO USE THE KIOSK AS AN ADMIN (DEPARTMENT HEAD/LOCAL EVALUATOR)

In order for the admin to log in to their account, go to 'Admin Login' that can be found on the landing page. Each department head holds one admin account with a username of '*TUPM-XXX*' (replace XXX with your department's initials e.g. TUPM-ECE for Electronics Engineering) and a default password of '12345'.

### Sending Pseudocode to Faculty Members

The admin is the one responsible in sending a pseudocode to the faculty members through the 'Users' page's 'Invite to Join' button (✉). Here, the admin will have to enter the TUP email address of the faculty member and has an option to choose from the list of pre-generated pseudocodes or to generate a new pseudocode.

### Managing Users

The admin can see all of the faculty members who have created their accounts on the 'Users View' page. However, the admin can only see faculty members who are part of the same department. If necessary, the admin can delete an account as well as add a new user.

### Create Training

The admin is in charge of suggesting or recommending trainings, activities, or seminars in which faculty members can earn more points. They can edit or update the details of the training produced if it was postponed, or they can delete it if it has passed the date or will no longer push through. Said training must be related to the department's discipline.

### Manual Document Classification

All pending files of the faculty members within the same department will be subjected to manual checking of the admin. When the 'View and Edit' button is pressed, a modal will appear displaying the selected file. If the file submitted is not valid, the admin would have to click the 'Decline' button of that file. However, if it is valid, the appropriate main category as well as the subcategory in which the document falls under to, must be selected. The system will then automatically award the corresponding credit points to the file.

## Validation Section

Admins or Department Heads are highly encouraged to verify the output of the developed system and, if necessary, classify it into the appropriate category and subcategory. This will aid the proponents in evaluating the accuracy of the results generated by the developed system. Those files or documents that were awarded points by the system itself, or those with status as 'COMPLETED' originally, will be displayed. Here, the admin will verify to see if the system accurately classified it into its main and subcategory, as well as if the assigned points were correctly awarded. If the system awarded points to the files despite the fact that they were invalid, the admin must click 'Invalid'. The admin can select yes or no in the 'Accurate' column. 'Yes' if it is correctly classified, and 'No' if it is not, in which the administrator must classify it to its right category.

## Account Settings

Same with the user's account settings, the admin can change their profile photo as well as their password on the 'Profile' page. Other information, such as their username and department, cannot be changed.

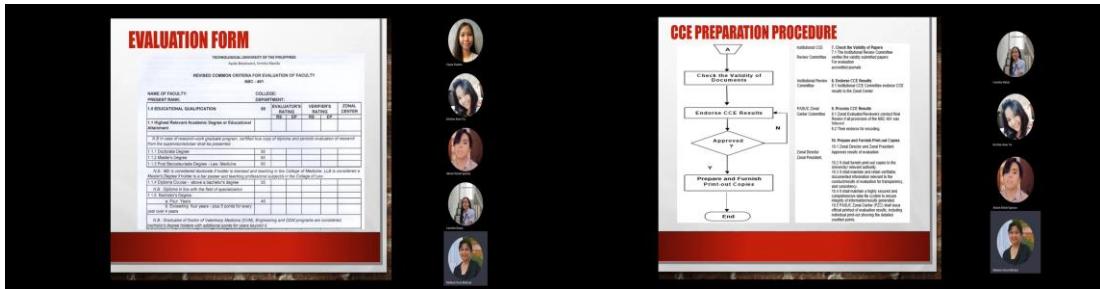
Should you have any further inquiries or concerns, contact us through  
[chyna.paulino@tup.edu.ph](mailto:chyna.paulino@tup.edu.ph).

# **APPENDIX D**

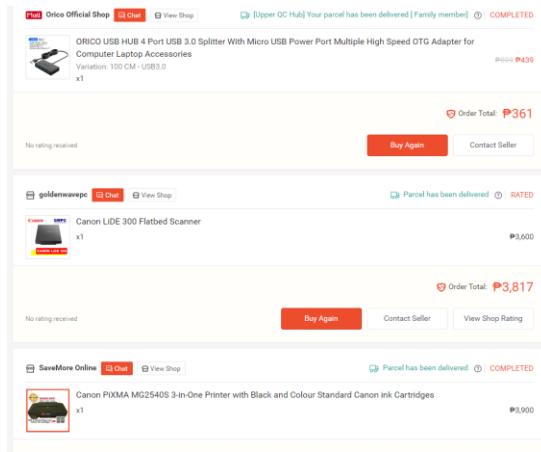
## Project Documentation



**Figure 1.** Construction of the Kiosk



**Figure 2.** Interview with Prof. Melbern Maltezo Regarding NBC 461



**Figure 3.** Purchasing of Kiosks Devices



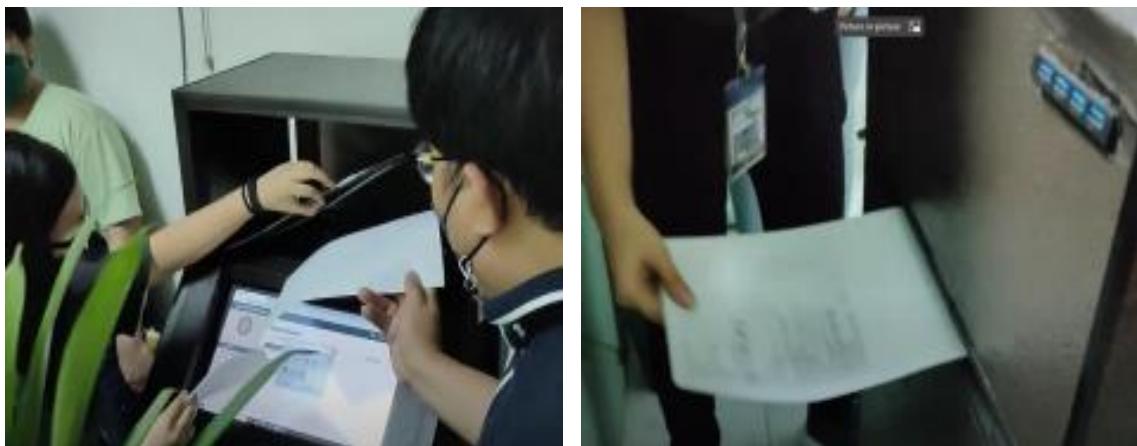
**Figure 4.** Kiosk Deployment in the Faculty Room of COE Building



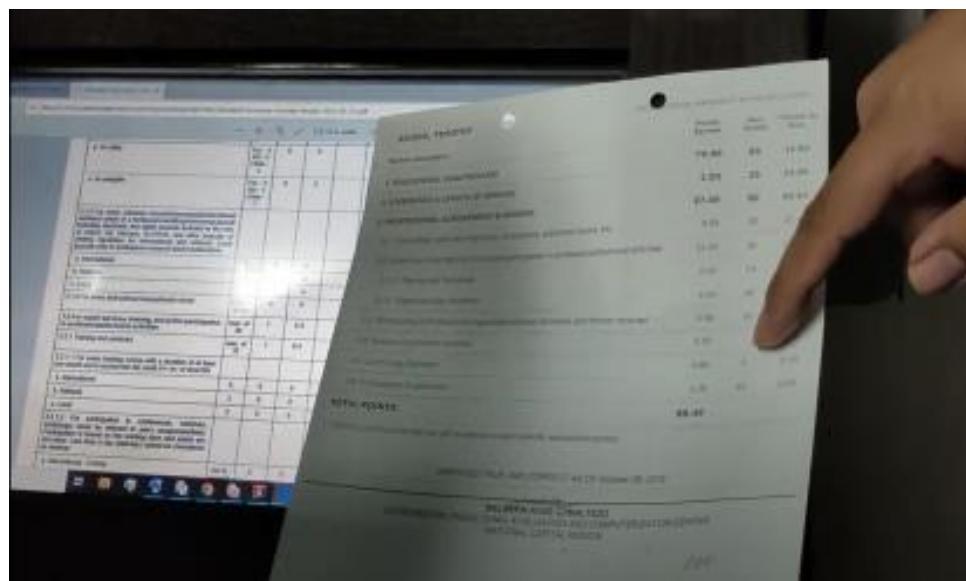
**Figure 5.** Setting Up the Kiosk



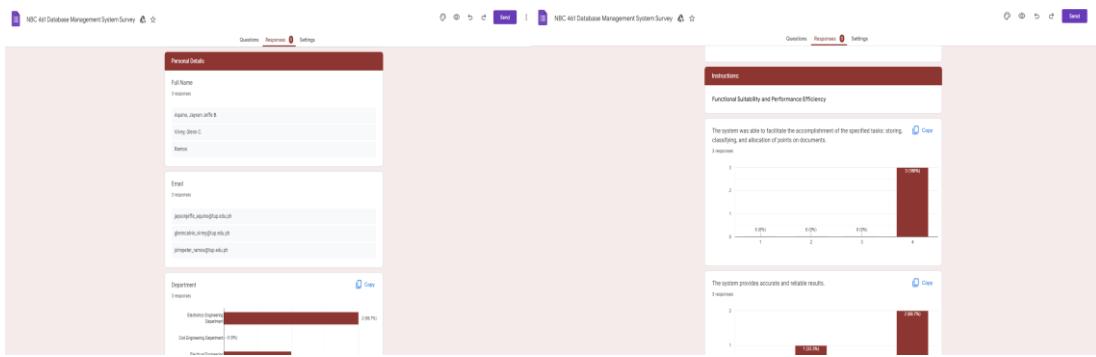
**Figure 6.** Demonstration on How to Use the Kiosk



**Figure 7.** Scanning and Printing Using the Kiosk



**Figure 8.** Comparing the Result of Kiosk to Manual Checking of Documents



**Figure 9.** Technical Evaluation Results

## **APPENDIX E**

### **GANTT Chart**



## **APPENDIX F**

### **Proponents' Profile**

# CHYNA A. PAULINO

📞 +63261756459

✉ chyna.paulino822@gmail.com

🏡 Block 4 Lot 52 De Castro, Capitol Park Homes 2,  
Caloocan City



## PERSONAL INFORMATION

| **Date of Birth:** August 22, 2000

| **Place of Birth:** Caloocan City

| **Nationality:** Filipino

| **Sex:** Female

## TECHNICAL SKILLS

| **Proficient:** MS Office Word, Excel, Powerpoint

| **Intermediate:** HTML/CSS, PHP, SQL, NI Multisim, Visual Studio Code, Adobe Photoshop, After Effects

| **Beginner:** Javascript, Python, MATLAB, Octave, RStudio, AWS, Cisco Packet Tracer

## SEMINARS ATTENDED

- **Establishing Networks and Possibilities: Achieving Higher Frequencies of Excellence Through Technology**  
Engr. Christian P. Enoval, Speaker  
(April 7, 2022)

- **TECHWEB: Emerging Technologies for AI and Robotics Application**  
Dr. Ronnie Serfa Juan, PECE, Speaker  
(April 10, 2022)

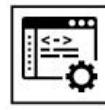
- **TECHWEB: Fire Detection and Alarm Systems**  
Engr. Anthony M. Laid, Speaker  
(April 24, 2022)

- **What's Next: Amplifying ECE Career Opportunities Post-Pandemic**  
(May 21, 2022)

## OBJECTIVE

"Electronics Engineering graduate seeking to leverage extensive knowledge and skills in the field in a company position that supports continuous learning while performing necessary tasks."

## AREAS OF INTEREST



Web Development



Web Design



Data Communications

## ACADEMIC BACKGROUND

- **TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES-MANILA**

| **College**

Bachelor of Science in Electronics Engineering  
2018 - Present

| **Senior High School**

Academic Track, STEM Strand  
Graduated Class of 2018  
With Honors  
Ayala Blvd., Ermita, Manila

- **CAYETANO ARELLANO HIGH SCHOOL**

Graduated Class of 2016  
10th Honor  
Teodora Alonso St., Sta. Cruz, Manila

- **FRANCISCO BALAGTAS ELEMENTARY SCHOOL**

Graduated Class of 2012  
Alvarez St., Sta. Cruz, Manila

## SEMINARS ATTENDED

- SEMICON: Unravelling Limitless Solutions to Infinite Advanced Technologies  
Engr. Aaron U. Aquino, Speaker  
(April 26, 2022)
- ON-AIR: Exploring Different Channels Towards Greater Amplitude  
Engr. Jimuelle Callejo, Speaker  
(April 29, 2022)
- Vision Capsule: Biomedical Field in the Eye of Electronics Engineering  
Engr. Ariel J. Nopre, Jr., Speaker  
(May 28, 2022)

## WORK EXPERIENCES

- Melham Construction Corporation  
- Intern | July - September 2021

## OTHER SKILLS

- Detail-oriented
- Fast learner
- Leadership experience
- Highly determined and dedicated towards work
- Willing to learn new ideas and concepts
- Excellent verbal and written communication skills
- Flexible
- Can work independently individually and/or in a team environment
- Good at multitasking

## AFFILIATIONS

- INSTITUTE OF ELECTRONICS ENGINEERS OF THE PHILIPPINES - MANILA STUDENT CHAPTER (IECEP-MSC)  
- Student Member | June 2018 - March 2019,  
February 2022 - Present
- ORGANIZATION OF ELECTRONICS ENGINEERING STUDENTS (OECES)  
- Student Member - June 2018 - Present

## CHARACTER REFERENCE

### Jireh Dawn Cruz

Electronics Engineering Student, Technological University of the Philippines - Manila  
Email: jirehdawn.cruz@tup.edu.ph  
Contact No.: 09303014212

I hereby certify that all the above information is true and correct according to the best of my knowledge and belief.

*C. Paulino*  
Chynia A. Paulino  
Applicant

# ADRIAN RAFAEL IGNACIO

+639474884340  
ianrafael.gnc@gmail.com  
178 Kaingin Rd., Brgy. Apolonio Samson,  
Balintawak, Quezon City



## PERSONAL INFORMATION

Date of Birth:	May 17, 1999
Place of Birth:	Meycauayan, Bulacan
Nationality:	Filipino
Sex:	Male

## TECHNICAL SKILLS

Proficient:	MS Office Suite, Canva
Intermediate:	NI Multisim, DesignSpark, Wondershare Filmora, Octave
Beginner:	Proteus, RStudio, MATLAB, Basic JavaScript, Python Spyder IDE, Cisco Packet Tracer, Anaconda Jupyter, LTSpice, Visual Studio Code

## SEMINARS ATTENDED

- Information Security Awareness (March 30, 2022)
- Cybersecurity Solution: Raising Security Awareness, Creating CyberSmart Users (April 3, 2022)
- 5G Technology: Shaping the Future of Stronger and Reliable Connectivity (April 4, 2022)
- Establishing Networks and Possibilities: Achieving Higher Frequencies of Excellence Through Technology Engr. Christian P. Enoval, Speaker (April 7, 2022)
- Emerging Technologies for AI and Robotics Application Dr. Ronnie Serfa Juan, PECE, Speaker (April 10, 2022)

## OBJECTIVE

"To gain practical experience in a reputable company where I can extend and expand my knowledge, abilities, and learnings. And to acquire a liable job that will allow me to put my training and abilities to good use while also contributing to the company's success."

## AREAS OF INTEREST



## ACADEMIC BACKGROUND

- TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES-MANILA | College Bachelor of Science in Electronics Engineering 2018 - Present Ayala Blvd., Ermita, Manila
- UNIVERSITY OF THE EAST-CALOOCAN | Senior High School Academic Track, STEM Strand Graduated Class of 2018 | With Honors 105 Samson Road, Caloocan City
- CALOOCAN HIGH SCHOOL Graduated Class of 2016 | 10th Honor 10th Avenue, West Grace Park, 1400 Caloocan City
- MORNING BREEZE ELEMENTARY SCHOOL Graduated Class of 2012 | Grade 4 - Grade 6 Alvarez St., Sta. Cruz, Manila
- SEED ACADEMY FOUNDATION INC. Grade 2 to Grade 3 | 2007 – 2009
- Kids Zone Academy Pre-elementary to Grade 1 | 2004 – 2007

## SEMINARS ATTENDED

- **TECHWEB: Fire Detection and Alarm Systems**  
Engr. Anthony M. Laid, *Speaker*  
(April 24, 2022)
- **SEMICON: Unravelling Limitless Solutions to Infinite Advanced Technologies**  
Engr. Aaron U. Aquino, *Speaker*  
(April 26, 2022)
- **ON-AIR: Exploring Different Channels Towards Greater Amplitude**  
Engr. Jimuelle Callejo, *Speaker*  
(April 29, 2022)
- **Vision Capsule: Biomedical Field in the Eye of Electronics Engineering**  
Engr. Ariel J. Nopre, Jr., *Speaker*  
(May 28, 2022)

## AFFILIATIONS

- **INSTITUTE OF ELECTRONICS ENGINEERS OF THE PHILIPPINES - MANILA STUDENT CHAPTER (IECEP-MSC)**  
- Student Member  
February 2022 - Present

## CHARACTER REFERENCE

[Available Upon Request]

## WORK EXPERIENCES

- **Melham Construction Corporation**  
- Intern | July - September 2021

## OTHER SKILLS

- Highly determined and dedicated towards work
- Open to new ideas and concepts
- Open to feedbacks
- Detail-oriented
- Well-organized
- Can work independently or as part of a team
- Able to work individually without direct supervision
- Good at multitasking
- Can deal with stressful situations in a calm and professional manner
- Professional attitude and motivational approach to work
- Readiness to learn and eagerness to grow

I hereby certify that all the above information is true and correct according to the best of my knowledge and belief.

  
**Adrian Rafael Ignacio**  
Applicant

# CAROLINE BATAN

+639667065380  
cbatan5@gmail.com  
358 Interior Batong Dalig, Kawit, Cavite



## PERSONAL INFORMATION

| **Date of Birth:** July 19, 1999  
| **Place of Birth:** Kawit, Cavite  
| **Nationality:** Filipino  
| **Sex:** Female

## TECHNICAL SKILLS

| **Proficient:** MS Office Word, Powerpoint  
| **Intermediate:** NI Multisim, Excel, DesignSpark  
| **Beginner:** Octave, RStudio, MATLAB, Proteus, Python Spyder IDE, Cisco Packet Tracer, Anaconda Jupyter, Wondershare Filmora,

## SEMINARS ATTENDED

- **Information Security Awareness**  
Engr. Ravenal A. De Jesus, Speaker  
(March 30, 2022)
- **TECHWEB: Fire Detection and Alarm Systems**  
Engr. Anthony M. Laid, Speaker  
(April 24, 2022)
- **Preventing Backdoors: Application of Random Number Generators in Cryptography**  
Engr. Lean Karlo S. Tolentino, Speaker  
(April 23, 2022)
- **What's Next: Amplifying ECE Career Opportunities Post-Pandemic**  
(May 21, 2022)

## OBJECTIVE

"To be able to apply all the knowledge and skills acquired and to gain more learnings in the work field"

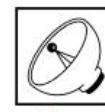
## AREAS OF INTEREST



Conventional & Broadcast Automation



Data Communications



Telecom Systems

## ACADEMIC BACKGROUND

- **TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES-MANILA**  
| College  
Bachelor of Science in Electronics Engineering  
2018 - Present  
Ayala Blvd., Ermita, Manila
- **SAINT MARY MAGDALENE SCHOOL**  
| Senior High School  
Academic Track, STEM Strand  
Graduated Class of 2018  
With Honors  
Kawit, Cavite
- **BINAKAYAN NATIONAL HIGH SCHOOL**  
| Junior High School  
Graduated Class of 2016  
10th Honor  
Kawit, Cavite
- **BATONG DALIG ELEMENTARY SCHOOL**  
Graduated Class of 2012  
Kawit, Cavite

## SEMINARS ATTENDED

- **SEMICON: Unravelling Limitless Solutions to Infinite Advanced Technologies**  
Engr. Aaron U. Aquino, Speaker  
(April 26, 2022)
- **Vision Capsule: Biomedical Field in the Eye of Electronics Engineering**  
Engr. Ariel J. Nopre, Jr., Speaker  
(May 28, 2022)

## AFFILIATIONS

- **INSTITUTE OF ELECTRONICS ENGINEERS OF THE PHILIPPINES - MANILA STUDENT CHAPTER (IECEP-MSC)**  
- Student Member  
February 2022 - Present

## CHARACTER REFERENCE

### Shaina Marie Solidarios

Electronics Engineering Student, Technological University of the Philippines - Manila  
Email: shaina.solidarios@gmail.com  
Contact No.: 09309701053

## WORK EXPERIENCES

- **Melham Construction Corporation**  
- Intern | July - September 2021

## OTHER SKILLS

- Open to new ideas and concepts
- Open to feedbacks
- Well-organized
- Can work independently or as part of a team
- Able to work individually without direct supervision
- Good at multitasking
- Can deal with stressful situations in a calm and professional manner
- Professional attitude and motivation approach to work
- Readiness to learn and eagerness to grow

I hereby certify that all the above information is true and correct according to the best of my knowledge and belief.

  
Caroline D. Batan  
Applicant

# JANISSAH J. MAMAYOG

• +639957336107

• janissah.mamayog@gmail.com

• Blk 4 Lot 6 Phase 2, California Dream Homes, San Bartolome, Novaliches, Quezon City



## PERSONAL INFORMATION

| **Date of Birth:** May 18, 2000

| **Place of Birth:** Quezon City

| **Nationality:** Filipino

| **Sex:** Female

## TECHNICAL SKILLS

| **Proficient:** MS Office Word, Excel, Powerpoint

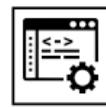
| **Intermediate:** Proteus, NI Multisim, Java, Eclipse IDE

| **Beginner:** Python, MATLAB, Octave, MySQL, Cisco Packet Tracer, Basic video and image editing,

## OBJECTIVE

"To be part of an organization where I can utilize my knowledge and skills related to my chosen field that contributes to the company and provide an opportunity to learn and grow for my personal and professional development."

## AREAS OF INTEREST



Software Development



Biomedical



Telecommunications

## SEMINARS ATTENDED

- **TECHWEB: Emerging Technologies for AI Robotics Application**  
Dr. Ronnie Serfa Juan, PECE, Speaker  
(April 10, 2022)
- **TECHWEB: Fire Detection and Alarm Systems**  
Engr. Anthony M. Laid, Speaker  
(April 24, 2022)
- **Digital Fabrication and Modelling Technologies: An Introduction to Computer-Controlled Manufacturing**  
Moshir Rashid, Speaker  
(May 14, 2022)
- **What's Next: Amplifying ECE Career Opportunities Post-Pandemic**  
Engr. John William Orillo, Speaker  
(May 21, 2022)

## ACADEMIC BACKGROUND

- **TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES-MANILA | College**  
Bachelor of Science in Electronics Engineering  
2018 - Present
- **POLYTECHNIC UNIVERSITY OF THE PHILIPPINES-MANILA | Senior High School**  
Academic Track, STEM Strand  
Graduated Class of 2018  
With Honors  
Anonas St., Sta. Mesa, Manila
- **SAN BARTOLOME HIGH SCHOOL**  
Graduated Class of 2016  
6th Honor, Regular Section  
San Bartolome, Novaliches, Quezon City
- **JERUSALEM CHRISTIAN ACADEMY**  
Graduated Class of 2012  
Blk 44, Kindness St. Goodwill I, Bagbag, Quezon City

## SEMINARS ATTENDED

- SEMICON: Unravelling Limitless Solutions to Infinite Advanced Technologies  
Engr. Aaron U. Aquino, Speaker  
(April 26, 2022)
- ON-AIR: Exploring Different Channels Towards Greater Amplitude  
Engr. Jimuelle Callejo, Speaker  
(April 29, 2022)
- Vision Capsule: Biomedical Field in the Eye of Electronics Engineering  
Engr. Ariel J. Nopre, Jr., Speaker  
(May 28, 2022)

## AFFILIATIONS

- INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS OF THE PHILIPPINES - MANILA  
- Student Member | May 2021 - May 2022
- INSTITUTE OF ELECTRONICS ENGINEERS OF THE PHILIPPINES - MANILA STUDENT CHAPTER (IECEP-MSC)  
- Student Member | February 2022 - Present
- ORGANIZATION OF ELECTRONICS ENGINEERING STUDENTS (OECES)  
- Student Member - June 2018 - Present

## CHARACTER REFERENCE

[Available Upon Request ]

## WORK EXPERIENCES

- Melham Construction Corporation  
- Intern | July - September 2021

## OTHER SKILLS

- Interpersonal and written skills
- Willing to be trained and can adapt to changes
- Time-management
- Fast learner
- Leadership experience
- Highly determined and dedicated to work
- Flexible
- Can work both with a team and independently

I hereby certify that all the above information is true and correct according to the best of my knowledge and belief.

  
**Janissah J. Mamayog**  
Applicant

# KRISTINE ANNE M. TIA

+639669241223  
katmendez1920@gmail.com  
Lot 10 Block 7J Talangka Alley, Caloocan City



## PERSONAL INFORMATION

| **Date of Birth:** February 19, 2000  
| **Place of Birth:** Caloocan City  
| **Nationality:** Filipino  
| **Sex:** Female

## TECHNICAL SKILLS

| **Proficient:** MS Office Suite, Canva  
  
| **Intermediate:** NI Multisim, Adobe Premiere Pro, Sony Vegas Pro, HTML/CSS  
  
| **Beginner:** Octave, Proteus, RStudio, MATLAB, JavaScript, Python, Cisco Packet Tracer, LTSpice

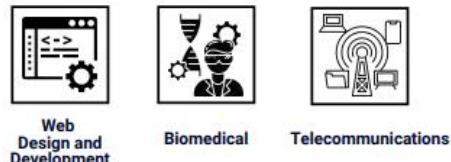
## SEMINARS ATTENDED

- **Vision Capsule: Biomedical Field in the Eye of Electronics Engineering**  
Engr. Ariel J. Nopre, Jr., Speaker  
(May 28, 2022)
- **What's Next: Amplifying ECE Career Opportunities Post-Pandemic**  
Engr. John William Orillo, Speaker  
(May 21, 2022)
- **Digital Fabrication and Modelling Technologies: An Introduction to Computer-Controlled Manufacturing**  
Moshir Rashid, Speaker  
(May 14, 2022)
- **ON-AIR: Exploring Different Channels Towards Greater Amplitude**  
Engr. Jimuelle Callejo, Speaker  
(April 29, 2022)

## OBJECTIVE

"Be part of the industry where I can contribute the skills and knowledge I gained as well as to have an opportunity to further enhance my development as an individual by learning and gaining professional experience."

## AREAS OF INTEREST



## ACADEMIC BACKGROUND

- TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES-MANILA | College  
Bachelor of Science in Electronics Engineering  
2018 - Present  
Ayala Blvd., Ermita, Manila
- UNIVERSITY OF THE EAST-CALOOCAN  
| Senior High School  
Academic Track, STEM Strand  
Graduated Class of 2018  
| Junior High School  
Graduated Class of 2016  
105 Samson Road, Caloocan City
- CALOOCAN BETHEL CHRISTIAN SCHOOL INC.  
Graduated Class of 2012 | Grade 4 - Grade 6  
504 A. Mabini St, Dagat-Dagatan, Caloocan, Metro Manila
- WESTMINSTER HIGH SCHOOL  
Grade 1 to Grade 3 | 2007 – 2009  
119 Honorio Lopez Blvd, Tondo, Manila, 1013 Metro Manila

## SEMINARS ATTENDED

- SEMICON: Unravelling Limitless Solutions to Infinite Advanced Technologies  
Engr. Aaron U. Aquino, Speaker  
(April 26, 2022)
- Emerging Technologies for AI and Robotics Application  
Dr. Ronnie Serfa Juan, PECE, Speaker  
(April 10, 2022)
- Role of Machine Learning in Smart Manufacturing  
Dr. Renann G. Baldovino, Speaker  
(September 12, 2020)

## AFFILIATIONS

- INSTITUTE OF ELECTRONICS ENGINEERS OF THE PHILIPPINES - MANILA STUDENT CHAPTER (IECEP-MSC)  
- Student Member | February 2022 - Present
- ORGANIZATION OF ELECTRONICS ENGINEERING STUDENTS (OECES)  
- Student Member - June 2018 - Present

## CHARACTER REFERENCE

[Available Upon Request ]

## WORK EXPERIENCES

- Melham Construction Corporation  
- Intern | July - September 2021

## OTHER SKILLS

- Detail and task oriented
- Organized and manage schedule effectively
- Willing to learn and explore new things.
- Highly determined and dedicated towards work
- Flexible
- Can work independently or in a team environment
- Good at multitasking
- Open to new ideas and concepts

I hereby certify that all the above information is true and correct according to the best of my knowledge and belief.

  
Kristine Anne M. Tia  
Applicant