



COLLEGE OF TECHNOLOGIES
INFORMATION TECHNOLOGY DEPARTMENT

IT126 - INFORMATION MANAGEMENT &
IT129 - INTEGRATIVE PROGRAMMING AND TECHNOLOGIES 1

FINAL PROJECT DOCUMENTATION

System Title: *Grammarly and Plagiarism Certificate Maker*

Group Name: 'Cedar'

Group Members:

Butic, Shaina Marie A.

Llaban, Jessa Niña C.

Portillas, Jarell A.

Pepito, Jesse Emmanuel L.

Name of Chosen Organization: *University Statistical Center (UCS)*

I. Background

The Bukidnon State University Statistical Center is under the Office of the Vice President for Research, Extension, and International Affairs. The University Statistician, Dr, Marlon Frias, is the head of the University Statistical Center. The Center aims to provide statistical services to the researchers to ensure that appropriate statistical techniques and methodology are used in the research objectives. It also provides Grammarly and Plagiarism tests to check the grammar and originality of the research. The center serves as a quality mechanism of the University to ensure the quality of the research of the students and faculty.

Identifying the Problem:

The UCS offers Grammarly and plagiarism tests to assess the grammar and originality of research. The center functions as a quality assurance mechanism for the university, ensuring the high quality of student and faculty research. The primary issue lies in the manual creation of certificates, which is the first challenge. Additionally, there is a problem with missing files, impacting the process. For instance, when clients submit documents for Grammarly checks, their information must be manually entered into Excel to generate a monthly feedback report.

Your Solution:

We have developed an automated approach for generating certificates to resolve these problems where users can input details they needed. The system will then automatically generate the certificate and securely save the file. This solution is designed to streamline processes, saving time and simplifying the retrieval and management of files.

Key Benefits:

One of the automatic certificate maker system's many benefits is that it makes things easy for UCS employees to utilize. To secure data storage and efficient record-keeping for user access. By reducing time and making the process of discovering and managing files simpler, this solution aims to improve our productivity.

II. Diagrams

Diagram 01. Data Flow

This diagram showcases the flow of data in this project.

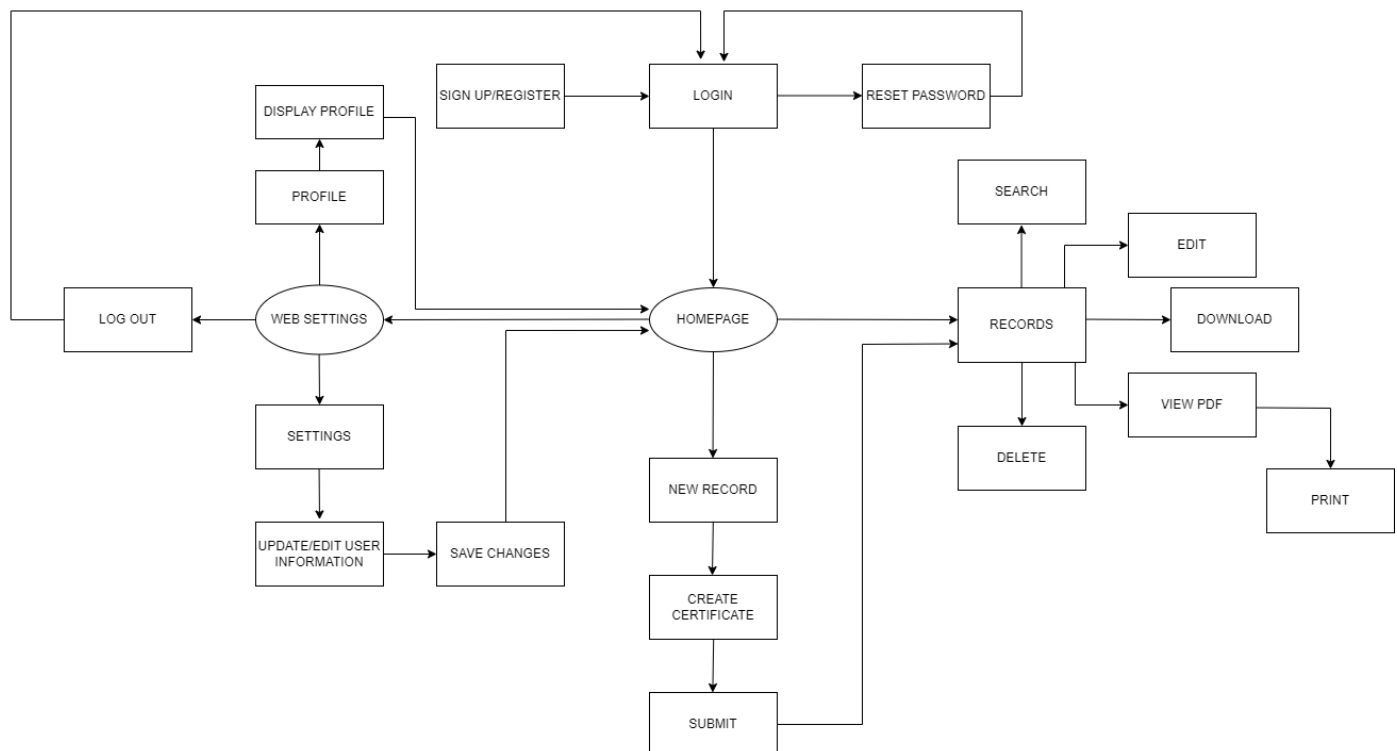


Diagram 02. Physical Data Model

This diagram displays the physical data model that shows the flow of this database.

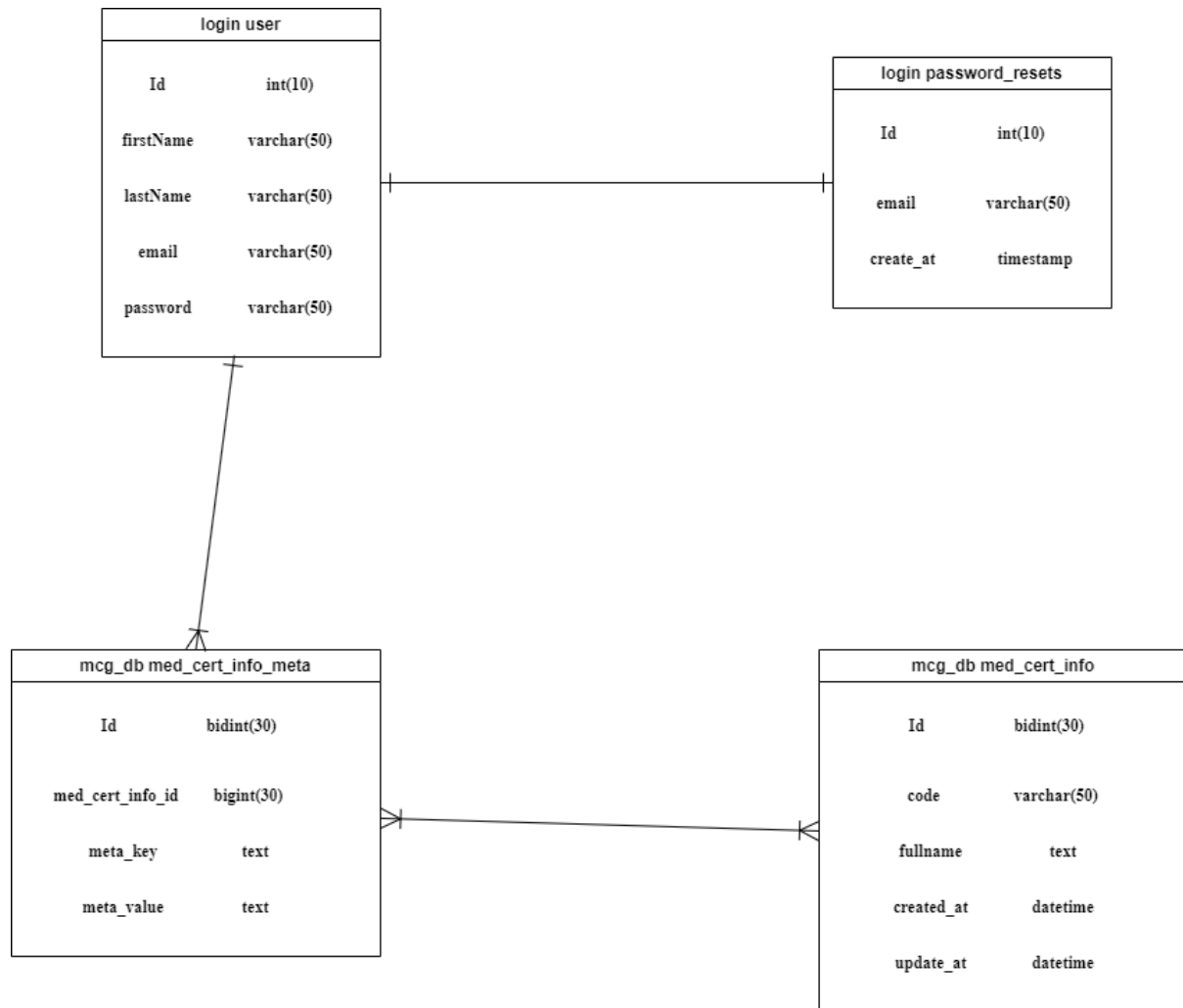


Diagram 03. Database Normalization

RAW DATA & 1ST NORMAL FORM

1st Normal Form									
Name	Course	Client Type	Type	Amount Paid	Result	Percentage	Submitted	Claimed	
MARIAN FERNANDEZ	Bachelor of Science in Information Technology	Undergraduate	Grammarly	300	83	10%	10/18/2023	10/18/23	
DAVE LAGARE	Bachelor of Science in Information Technology	Undergraduate	Plagiarism	300	93	6%	11/21/23	11/21/23	
JARELL PORTILLAS	Bachelor of Science in Information Technology	Undergraduate	Grammarly & Plagiarism	600	89	11%	01/22/23	01/22/23	
JESSA NIÑA LLABAN	Bachelor of Science in Information Technology	Undergraduate	Grammarly & Plagiarism	600	91	3%	01/14/24	01/14/24	
BOBBY RAMOS	Bachelor of Science in Information Technology	Undergraduate	Grammarly	300	90	2%	01/27/24	01/27/24	
Student_ID	Name	Course	Client Type	Type	Amount Paid	Result	Percentage	Submitted	Claimed
2201106306	MARIAN FERNANDEZ	Bachelor of Science in Information Technology	Undergraduate	Grammarly	300	83	10%	10/18/2023	10/18/23
2201101718	DAVE LAGARE	Bachelor of Science in Information Technology	Undergraduate	Plagiarism	300	93	6%	11/21/23	11/21/23
2201107699	JARELL PORTILLAS	Bachelor of Science in Information Technology	Undergraduate	Plagiarism	600	89	11%	01/22/23	01/22/23
2201107699	JARELL PORTILLAS	Bachelor of Science in Information Technology	Undergraduate	Grammarly	600	89	11%	01/22/23	01/22/23
2201106313	JESSA NIÑA LLABAN	Bachelor of Science in Information Technology	Undergraduate	Grammarly	600	91	3%	01/14/24	01/14/24
2201106313	JESSA NIÑA LLABAN	Bachelor of Science in Information Technology	Undergraduate	Plagiarism	600	91	3%	01/14/24	01/14/24
2101106749	BOBBY RAMOS	Bachelor of Science in Information Technology	Undergraduate	Grammarly	300	90	2%	01/27/24	01/27/24

2ND NORMAL FORM

2nd Normal Form

CLIENT TABLE				TRANSACTION						
Student_ID	Name	Course	Client Type	Transaction_ID	Type	Amount Paid	Result	Percentage	Submitted	Claimed
2201106306	MARIAN FERNANDEZ	Bachelor of Science in Information Technology	Undergraduate	1211	Grammarly	300	83	10%	10/18/2023	10/18/23
2201101718	DAVE LAGARE	Bachelor of Science in Information Technology	Undergraduate	1212	Plagiarism	300	93	6%	11/21/23	11/21/23
2201107699	JARELL PORTILLAS	Bachelor of Science in Information Technology	Undergraduate	1213	Plagiarism	600	89	11%	01/22/23	01/22/23
2201107699	JARELL PORTILLAS	Bachelor of Science in Information Technology	Undergraduate	1214	Grammarly	600	89	11%	01/22/23	01/22/23
2201106313	JESSA NIÑA LLABAN	Bachelor of Science in Information Technology	Undergraduate	1215	Grammarly	600	91	3%	01/14/24	01/14/24
2201106313	JESSA NIÑA LLABAN	Bachelor of Science in Information Technology	Undergraduate	1216	Plagiarism	600	91	3%	01/14/24	01/14/24
2101106749	BOBBY RAMOS	Bachelor of Science in Information Technology	Undergraduate	1217	Grammarly	300	90	2%	01/27/24	01/27/24

Rule: All attributes (Non-Key Columns) dependent on the Key

Primary Key	Primary Key
Student_ID	Transaction_ID
2201106306	1211
2201101718	1212
2201107699	1213
2201107699	1214
2201106313	1215
2201106313	1216
2101106749	1217

THIS ONE SATISFY THE SECOND NORMAL FORM

3RD NORMAL FORM

3rd Normal Form

CLIENT TABLE				TRANSACTION				Foreign Key	
Student_ID	Name	Course	Client Type	Transaction_ID	Type	User_ID	Amount Paid		
2201106306	MARIAN FERNANDEZ	Bachelor of Science in Information Technology	Undergraduate	1211	Grammarly	1645482	300		
2201101718	DAVE LAGARE	Bachelor of Science in Information Technology	Undergraduate	1212	Plagiarism	1645482	300		
2201107699	JARELL PORTILLAS	Bachelor of Science in Information Technology	Undergraduate	1213	Plagiarism	1645482	600		
2201107699	JARELL PORTILLAS	Bachelor of Science in Information Technology	Undergraduate	1214	Grammarly	1645482	600		
2201106313	JESSA NIÑA LLABAN	Bachelor of Science in Information Technology	Undergraduate	1215	Grammarly	1645482	600		
2201106313	JESSA NIÑA LLABAN	Bachelor of Science in Information Technology	Undergraduate	1216	Plagiarism	1645482	600		
2101106749	BOBBY RAMOS	Bachelor of Science in Information Technology	Undergraduate	1217	Grammarly	1645482	300		

Rules: All fields(columns) can be determined only by the key in the table and no other column

Primary Key	Primary Key
Student_ID	Type
2201106306	Grammarly
2201101718	Plagiarism
2201107699	Plagiarism
2201107699	Grammarly
2201106313	Grammarly
2201106313	Plagiarism
2101106749	Grammarly

Primary Key	Type	Result
User_ID		
1645482	Grammarly	83
1645482	Plagiarism	93

USER TABLE

4TH NORMAL FORM

4th Normal Form

CLIENT TABLE			CLIENT TYPE TABLE		TRANSACTION TABLE						
Student_ID	Name	Course	Student_ID	Client Type	Transaction_ID	Type	Amount Paid	Result	Percentage	Submitted	Claimed
2201106306	MARIAN FERNANDEZ	Bachelor of Science in Information Technology	2201106306	Undergraduate	1211	Grammarly	300	83	10%	10/18/2023	10/18/23
2201101718	DAVE LAGARE	Bachelor of Science in Information Technology	2201101718	Undergraduate	1212	Plagiarism	300	93	6%	11/21/23	11/21/23
2201107699	JARELL PORTILLAS	Bachelor of Science in Information Technology	2201107699	Undergraduate	1213	Plagiarism	600	89	11%	01/22/23	01/22/23
2201107699	JARELL PORTILLAS	Bachelor of Science in Information Technology	2201107699	Undergraduate	1214	Grammarly	600	89	11%	01/22/23	01/22/23
2201106313	JESSA NIÑA LLABAN	Bachelor of Science in Information Technology	2201106313	Undergraduate	1215	Grammarly	600	91	3%	01/14/24	01/14/24
2201106313	JESSA NIÑA LLABAN	Bachelor of Science in Information Technology	2201106313	Undergraduate	1216	Plagiarism	600	91	3%	01/14/24	01/14/24
2101106749	BOBBY RAMOS	Bachelor of Science in Information Technology	2101106749	Undergraduate	1217	Grammarly	300	90	2%	01/27/24	01/27/24

Rules: No multi-valued dependencies

Primary Key	Primary Key
Student_ID	Transaction_ID
2201106306	1211
2201101718	1212
2201107699	1213
2201107699	1214
2201106313	1215
2201106313	1216
2101106749	1217

Primary Key	Type	Result
User_ID		
1645482	Grammarly	83
1645482	Plagiarism	93

USER TABLE

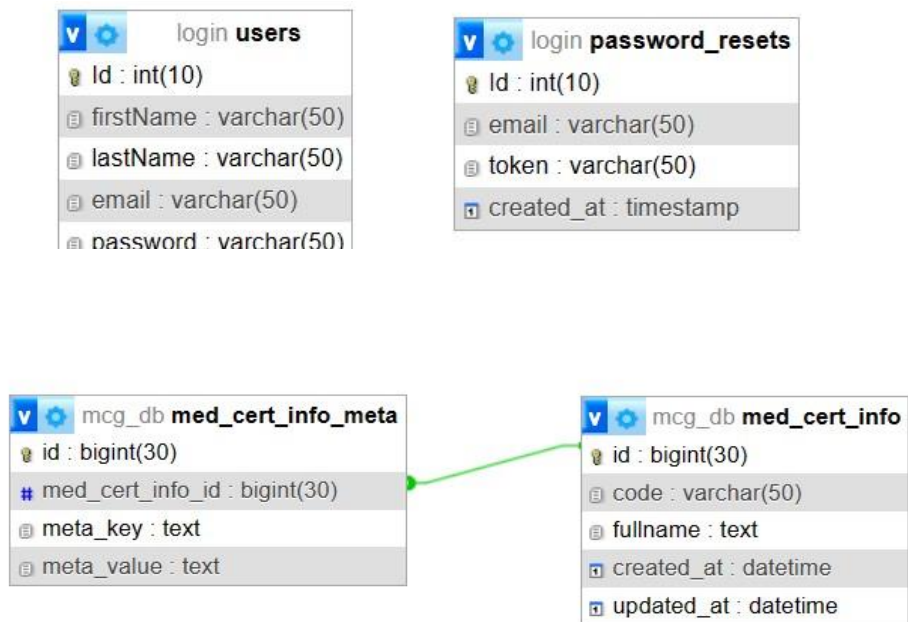
Relationships

Customer will appear in Customer Table one time but will appear multiple times in the Sales Invoice table
 Item will appear in the Item Table one time but will sold multiple times in Sales Invoice tables
 Supplier will appear one time but can supply a lot of items in the Item Table
 Customer will appear in Customer Table one time but can have multiple subscriptions

THIS ONE SATISFY THE FOURTH NORMAL FORM

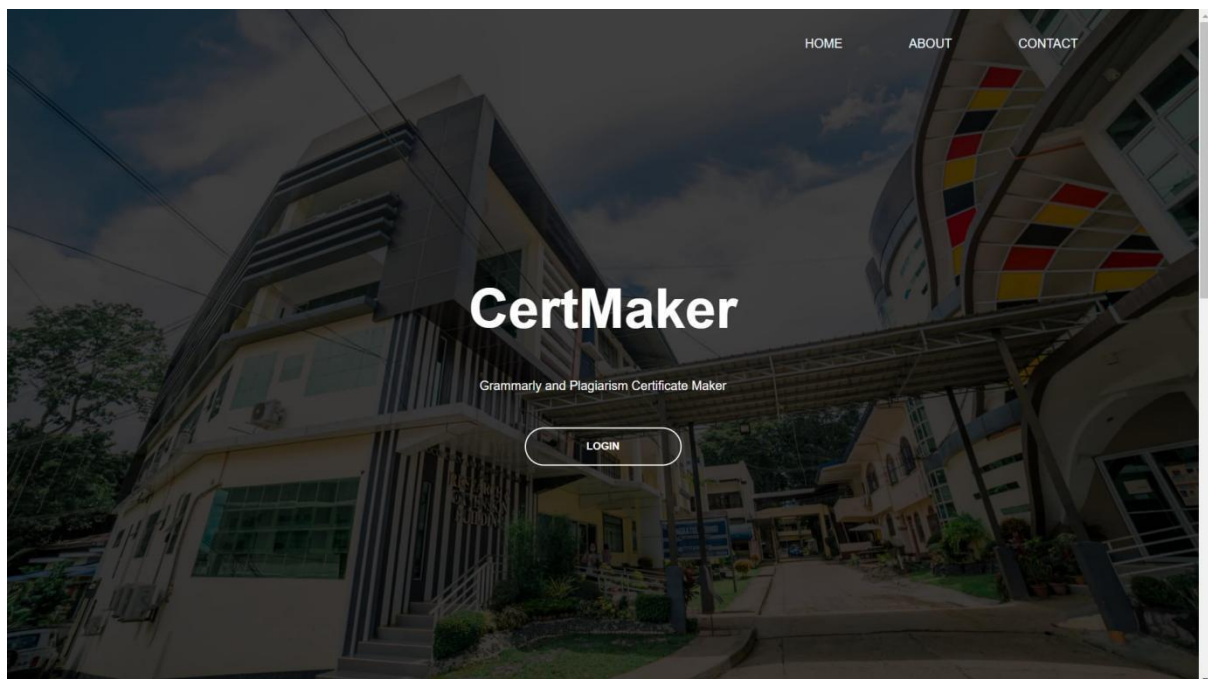
Diagram 04. Database Schema

This diagram shows the screenshot of the actual database.

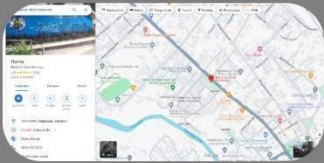


III. Actual Website Snippet

This is the frame of the website.



About Us



Bukidnon State University, Fortich Street, Barangay 3,
Malaybalay City, Bukidnon 8700.



Mission: To develop competitive professionals who are committed to build a sustainable life for all through quality instruction, research, extension and production.

Vision: A premier institution of innovative and ethical leaders for sustainable development.



The Bukidnon State University Statistical Center is under the Office of the Vice President for Research, Extension, and International Affairs. It is headed by a University Statistician. The Center aims to provide statistical services to the researchers to ensure that appropriate statistical technique and methodology are used in the research objectives. It also provides Grammarly and Plagiarism tests to check the grammar and originality of the researches. The center serves as a quality mechanism of the University to ensure the quality of the researches of the students and faculty.



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You can contact us in our Social Media , Phone Number
+639917067201

Contact US

Fortich St., Malaybalay City,
Bukidnon

+639917067201

Media Links

Media Links

Gallery

Web Links

Services

Admission

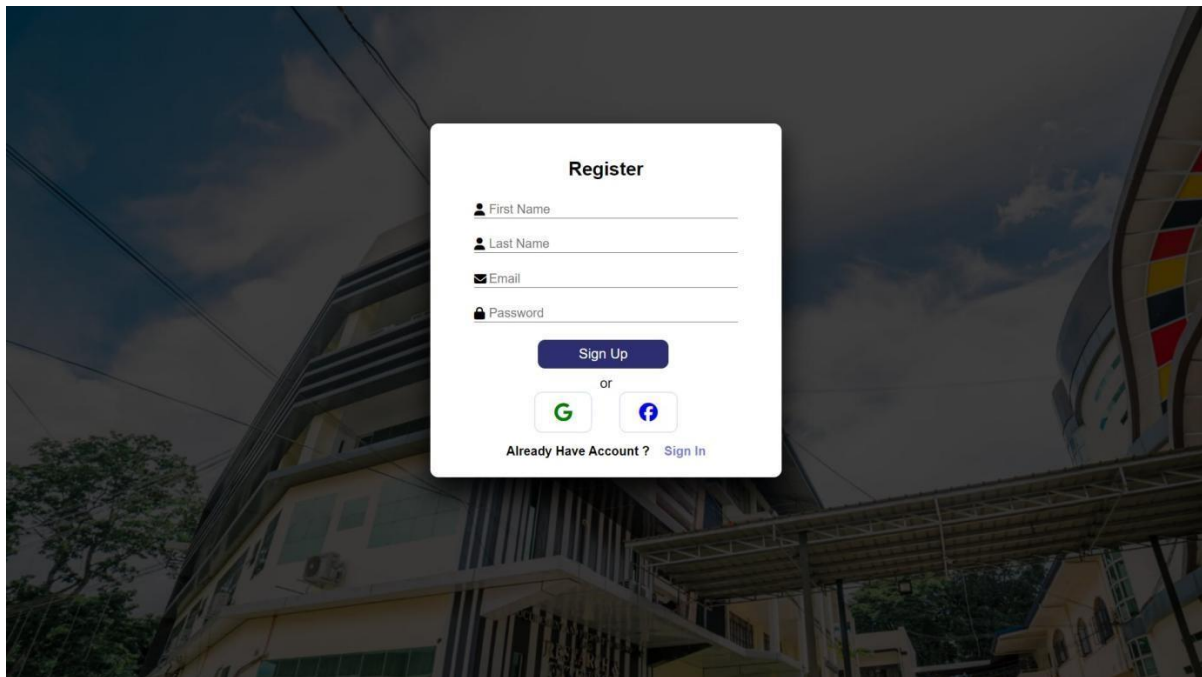
Help Center

Scholarships

Developed by: Jarell E Portillas 2024

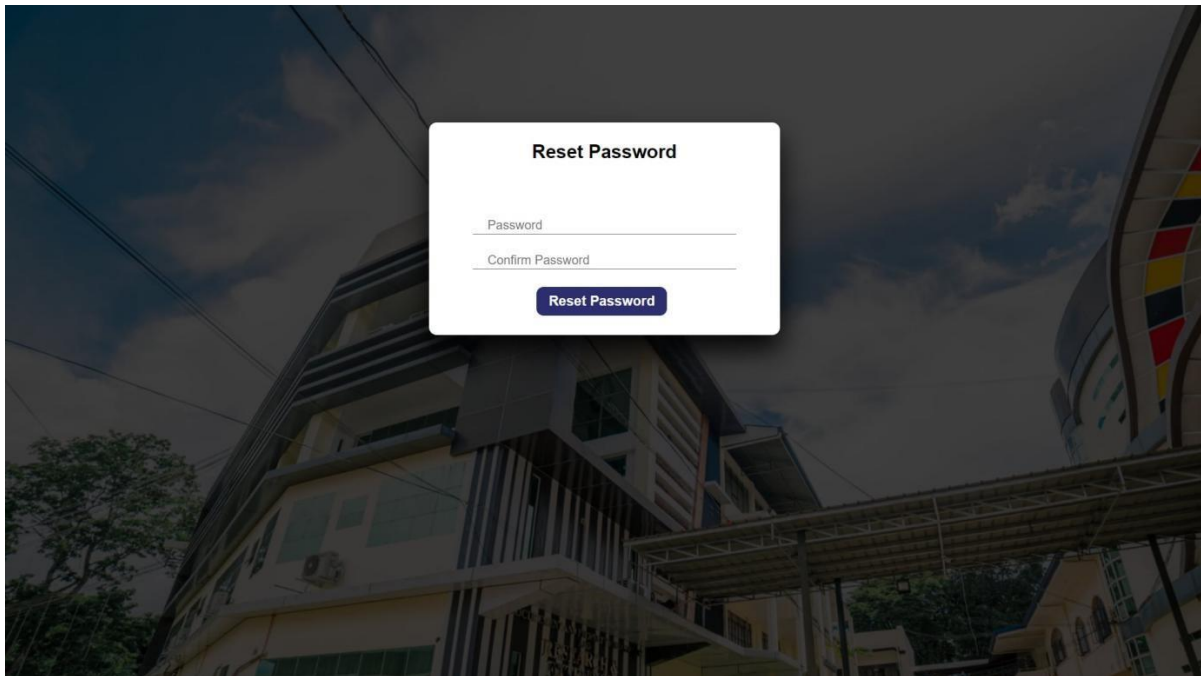
These are the 'About Us' and 'Contact Information' of the website.

These are the 'Sign Up' and 'Reset Password'.



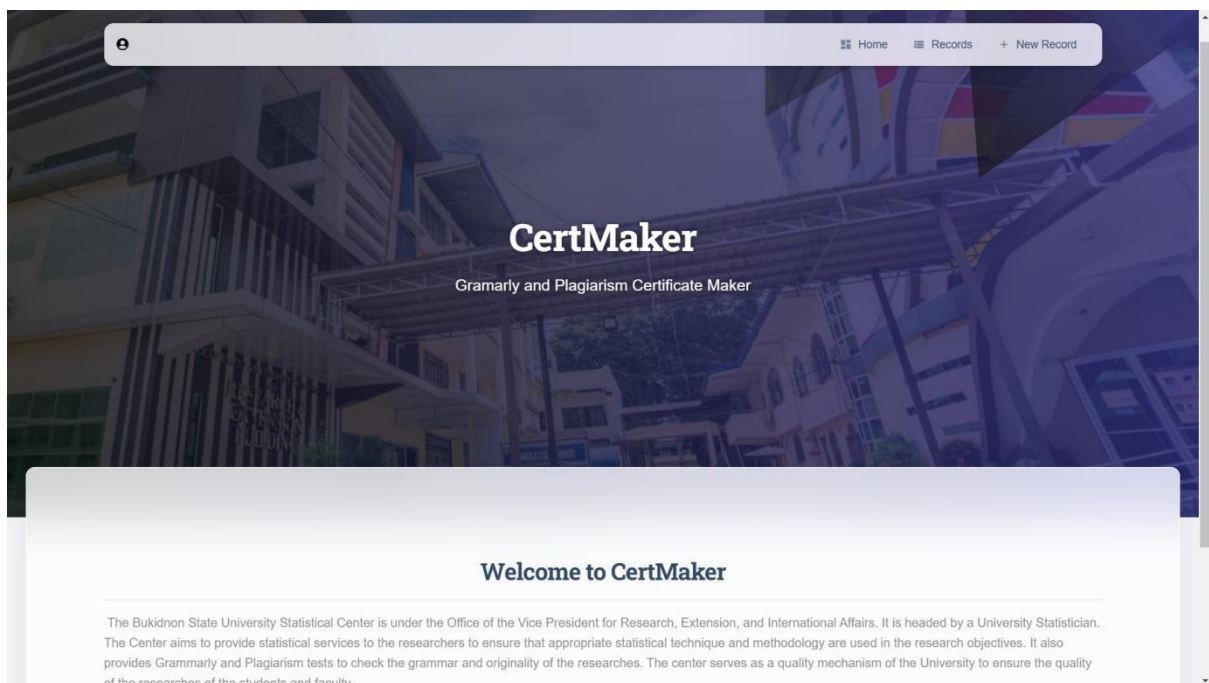
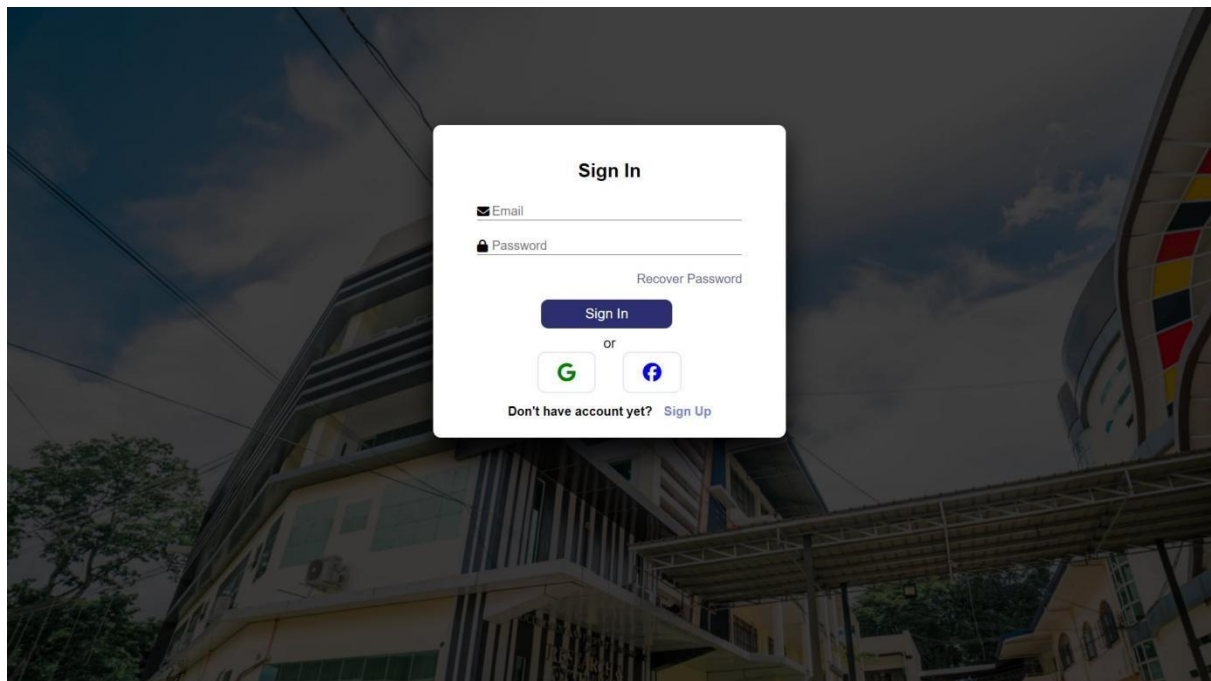
The image shows a 'Register' form overlay on a background image of a modern building. The form is white with a black border and contains the following elements:

- Register** (Section Header)
- First Name
- Last Name
- Email
- Password
-
- or
-
- Already Have Account ? [Sign In](#)



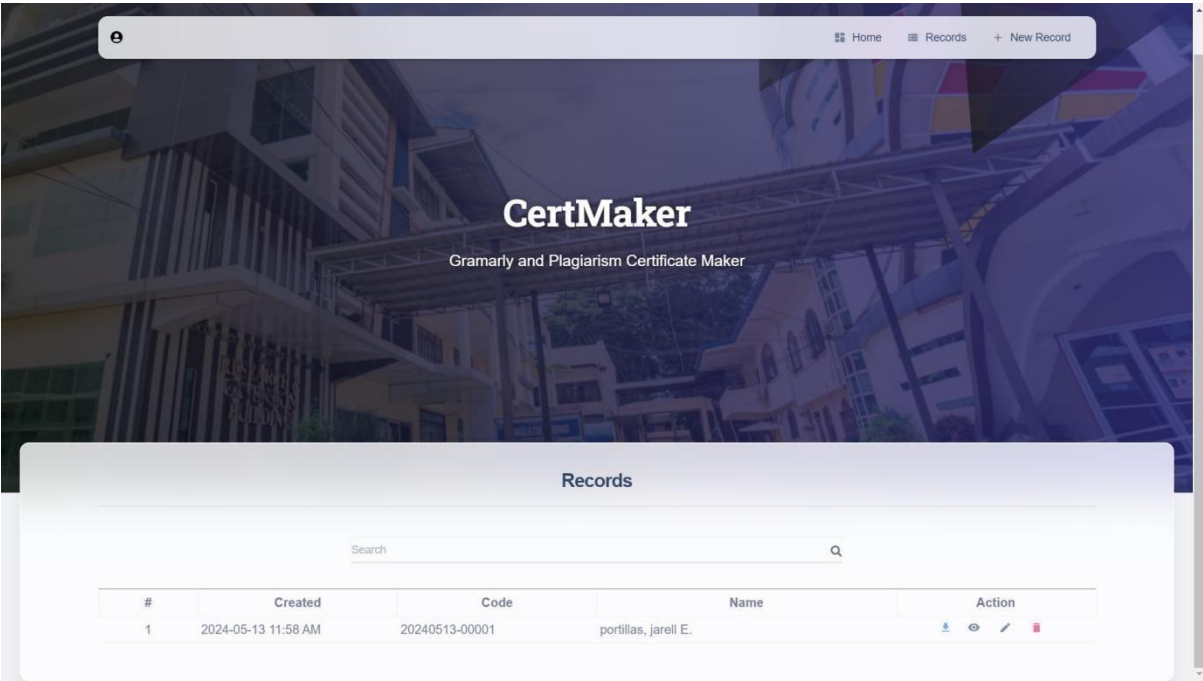
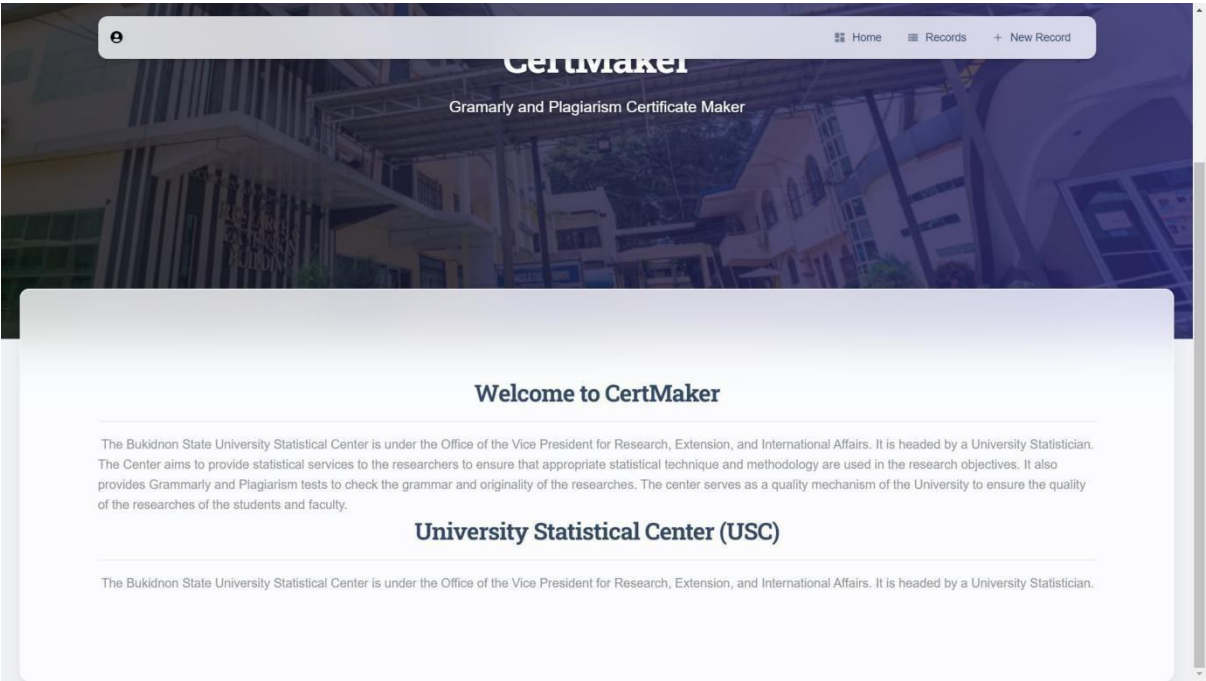
The image shows a 'Reset Password' form overlay on the same background image of a modern building. The form is white with a black border and contains the following elements:

- Reset Password** (Section Header)
- Password
- Confirm Password
-



These two are the 'Sign In or Login' and the homepage of the actual website.

The first picture displays what the system is about and the second picture is the Records Tab.



Create New Certificate Record

Lastname Firstname Middlename
 Date Submitted Gender
 Clients Contact #
 Types
 Similarity Index
 Result Score
 Title (Title of the Study)

This is the New Records Tab where the user inputs data to generate the certificate.

CERTIFICATION FOR GRAMMARLY AND PLAGIARISM TESTS

This is to certify that the study entitled *system* has undergone "Grammarly and Plagiarism Tests" in our office with the following results:

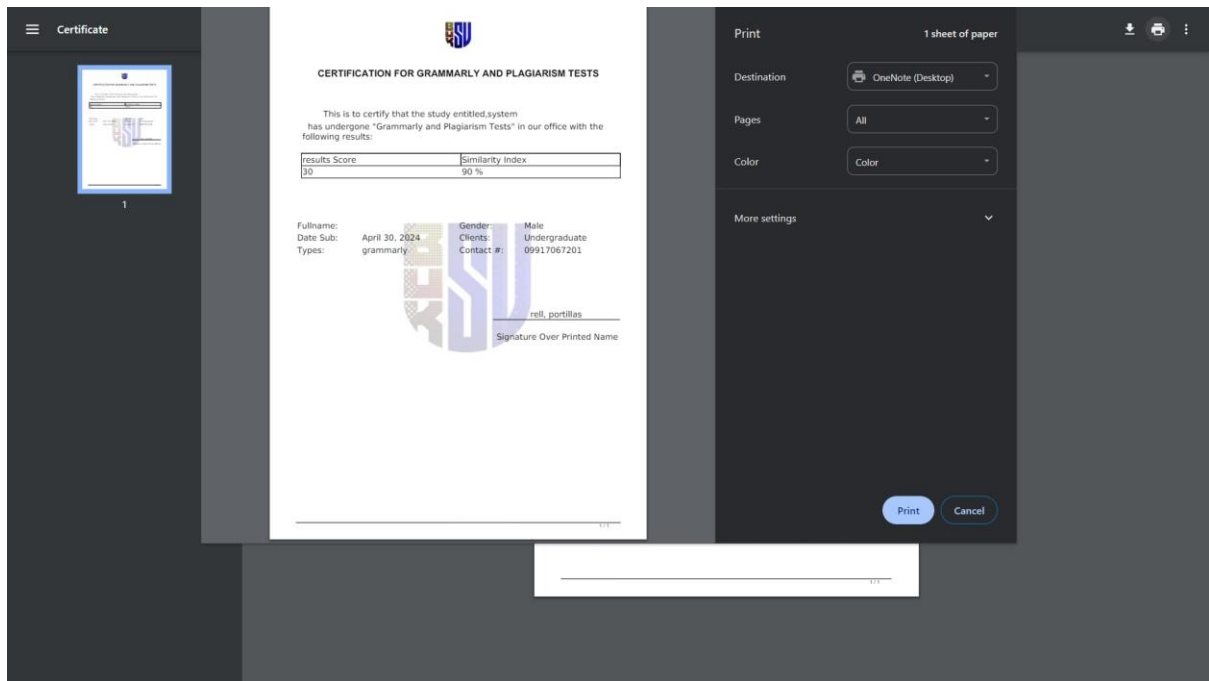
Results Score	Similarity Index
30	90 %

Fullname: *reli_portillas*
 Date Sub: April 30, 2024
 Types: grammarly

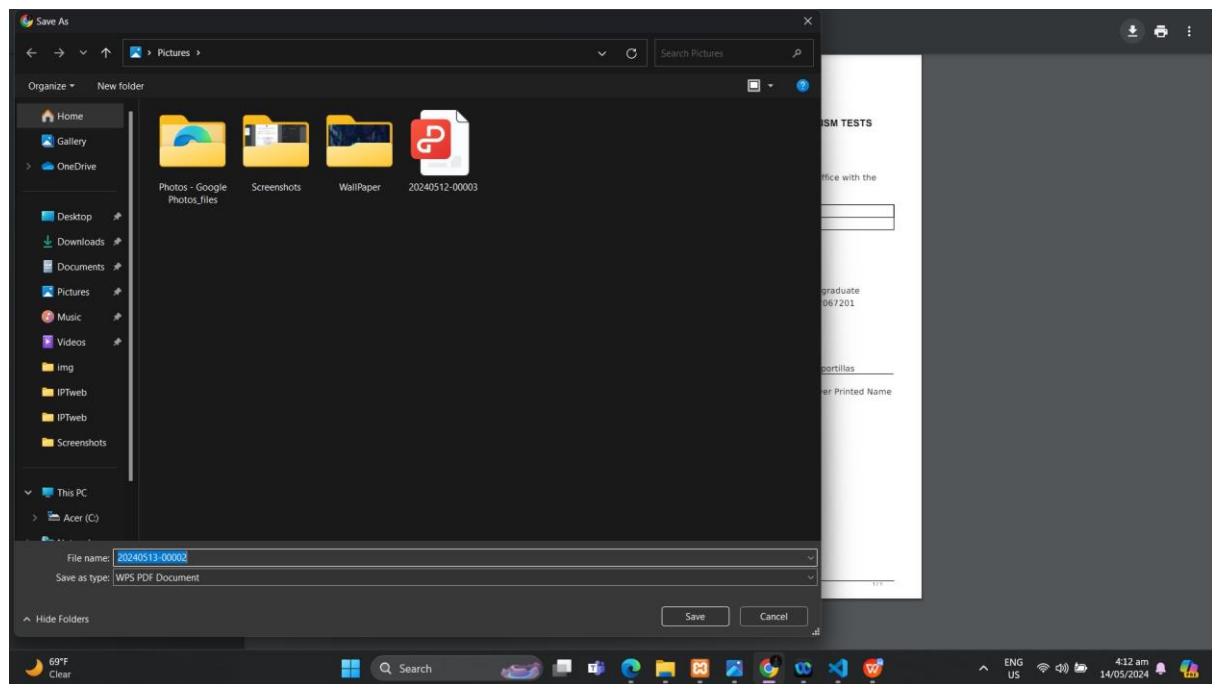
Gender: Male
 Clients: Undergraduate
 Contact #: 09917067201

reli_portillas
Signature Over Printed Name

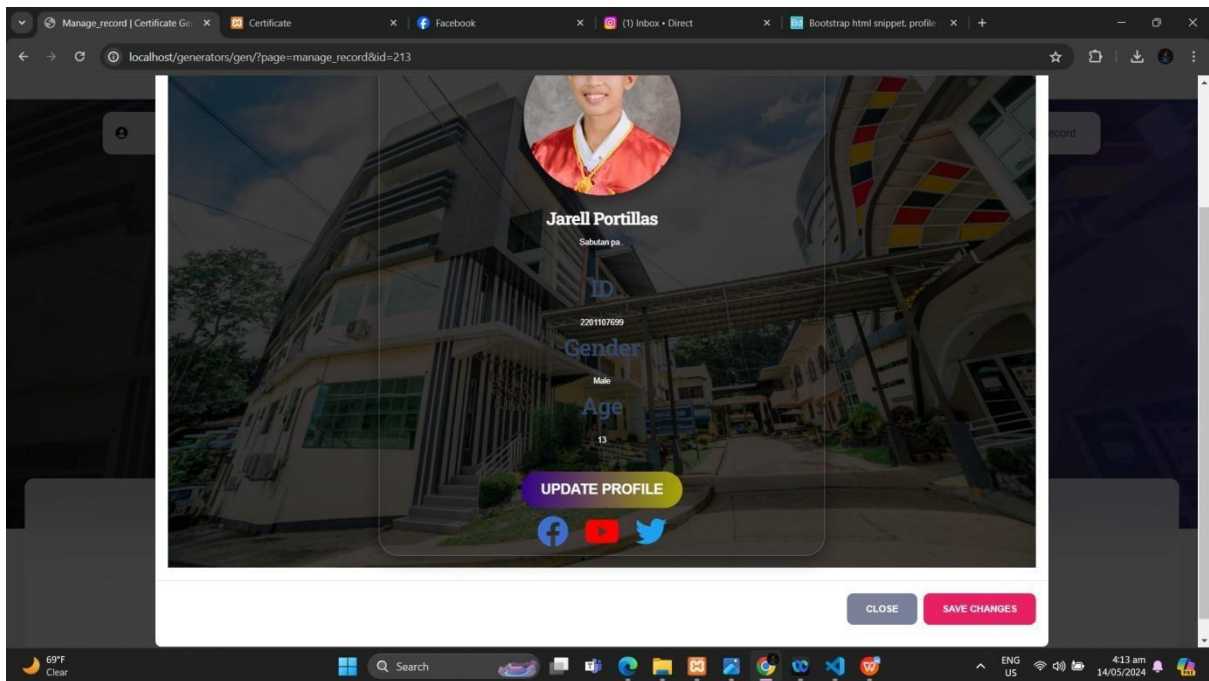
This photo displays the generated certificate after filling up the important data.



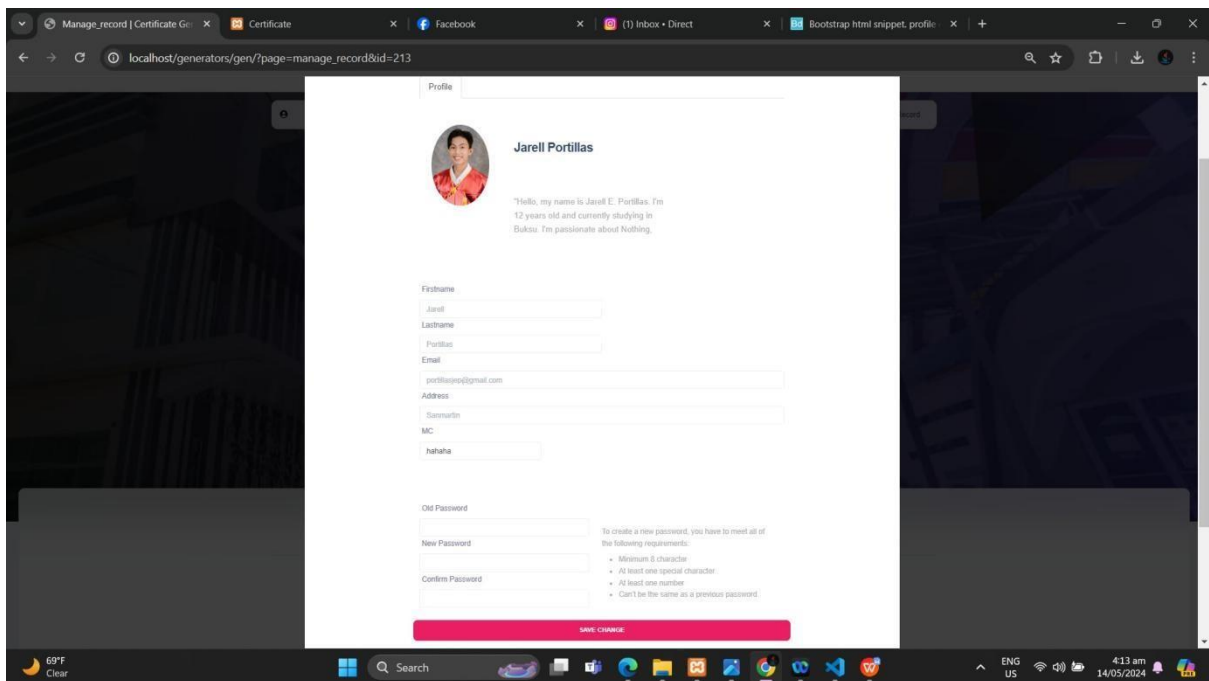
This picture shows that the generated certificate can be printed.



In this figure, this showcases that the generated certificate can be downloaded.



This photo displays the profile of the user.



This is the Settings where you can edit or update the information of the user.