

**UNIVERSITI TEKNIKAL MALAYSIA MELAKA**

FAKULTI TEKNOLOGI MAKLUMAT DAN KOMUNIKASI

**W O R K S H O P 1**

**R E P O R T**

|  |  |
| --- | --- |
| **Name:** | Quek Yao Jing |
| **Matric Number:** | B031810136 |
| **Course:** | 2BITI |
| **Project Title:** | FTMK Professional Certificate Management System |
| **Supervisor Name:** | DR SAZALINSYAH BIN RAZALI |
| **Evaluator Name:** | DR NORHAZWANI MD YUNOS |

**TABLE OF CONTENT**

**INTRODUCTION**

1.1 Introduction…………………………………………………………………….………....1

1.2 Problem Statement……………………………...………………………………...……….2

1.3 Objective……………………………………………………………………………….….2

1.4 User Scope…………………………………………………………………………...……2

1.5 System and Hardware Requirement……………………………………………….………2

1.6 Gantt Chart………………………………………………………………………………...3

**PROBLEM ANALYSIS**

2.1 Problem Description………………………………………………………………………4

2.2 Problem Decomposition for the Proposed System…....……………………….…….……4

2.3 Structured Chart……………………………………………………………………...……5

**DESIGN**

3.1 Introduction……………………………………………………………………………….6

3.2 Flowchart………………………………………………………………………………….7

3.3 Entity Relationship Diagram (ERD) …………………………………………………….12

3.3.1 Business Rule……………………………………………………………………...13

3.4 Input Process Output……. …………………………………………………………....…13

3.5 Data Flow Diagram (DFD) …………………………………………………………....…15

3.6 Data Dictionary…………………………………………………………………….….…18

3.7 Interface Design……………………………………………………………………….…20

**IMPLEMENTATION**

4.1 PHP Programming Coding………………………………………...………………….…29

4.1 .1 Database………………………………………………………………...…………29

4.1.2 Admin and Trainer Login…………………………………………………….….…30

4.1.3 Insert into database coding ……………………...…………………………………31

4.1.4 Update database record coding……………………………………………….….…31

4.1.5 Delete Coding………………………………………………………………...……31

4.1.6 Search and filter database records………………………………………………….32

4.1.7 Report Graph Coding…………………………………………………………...….33

4.1.8 Import CSV File……………………………………………………………………34

4.1.9 Looping Structure.………………………………………...……….………………36

4.1.9.1 While Loop…………………………………………………………………36

4.1.9.2 For Loop……………………………………………………………………36

4.1.10 If-Else Decision……………………………………………………………….….37

4.1.11 Example Error Handling……………………………………….…………………37

**CONCLUSION**

5.1 Conclusion …………………………………………….……………………….......……38

5.2 Limitations …………………………………………….……………………….......……38

5.3 Future Works………………………………………….……………………….......….…39

**REFERENCES**………………………………………………………………...…………...40

**CHAPTER 1**

**INTRODUCTION**

* 1. **Introduction**

In this era of Information Technology, we are bound with the use of computerized system in our daily life. With the help of information system, we can clearly see that the efficiency of our workload had been reduced by more than half compare to traditional paper-based system. Computerized system also fully utilized the used of the database in storing all our information inside the database. This makes the system become more versatile and flexible to the user to check for any existing records.

FTMK is one the faculty at University Teknikal Malaysia Melaka (UTeM). FTMK offered 6 certificate and every student in each department must attend certificate training based on their degree major. Certificate training available are Rapid Miner, HTML 5, CCNA Security, CCNA R&S, Oracle Java, Oracle DB.

At the meantime, all the certificate management process is done by lecturers using the paper-based approach. This approach is very tedious to record and keep track of the students’ progress. Human error might also occur due to the huge number of data need to review and track.

With the system entitled FTMK Professional Certificate management system, all the workload done by Lecturers in keep track the student’s certificate is reduced and more convenient. The system able to make reporting more easily even the students’ number increased.

* 1. **Problem Statements**
* The process of keep track the student certification status is tedious and tiring as lecturers need to view the records files in paper based.
* Time consumption on checking the students’ certification progress.
* There might be some students who will be miss from the training list as the paper-based system is easier to produce error compared to the computerized system.
  1. **Objectives**

1. To design and develop a management system for FTMK.
2. To keep track of the details of the students and certificate in database system.
3. To ease reporting by digitalized all the students and certification data.
   1. **User Scope**
4. **System Administrator**

Full Privilege will be given such as granted access for all the registered user information to monitor, update and access to the student details on their certification process.

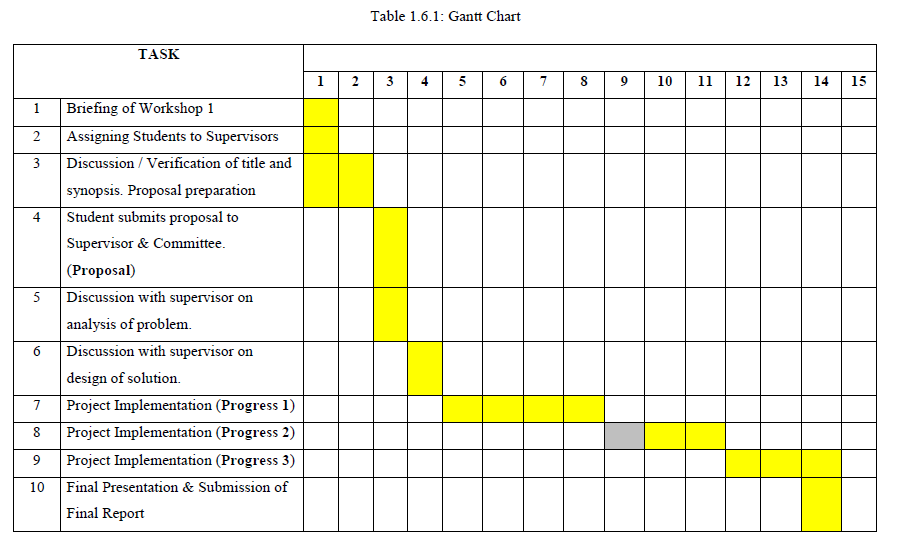
1. **Course Instructor**

Able to view students’ certificate progress and take students attendance. Course instructor can’t make change to students’ data in the database.

* 1. **System and Hardware Requirements**

Table 1.5.1: System and Hardware Requirements

|  |  |
| --- | --- |
| **System** | **Hardware Requirement** |
| * XAMPP version 7.3 * Sublime Text version 3.3.1 * PHP version 7.3.5 * MYSQL version 10.1.38-MariaDB * HTML 5.2 * JavaScript ES 2019 * JQuery version 3.3.1 * Google Chrome version 74.0.3729.169 | * Personal Computer (PC)   Tested on Intel Core i5-5200U, 4GB RAM Laptop   * Internet Access |

* 1. **Gantt Chart**

**CHAPTER 2**

**PROBLEM ANALYSIS**

**2.1 Problems Description**

In FTMK, all the students from cohort 2017/2018 are planned for professional certificate training and exam. All the students in FTMK are required to attend art least one of the certificate training or examination. The lecturer will play very important roles to keep track of the students’ certificate status on whether they had completed the payments, completed the training and attend for the examination. There come problems where one lecturer needs to keep track of one batch of students. This process is tedious and tiring because of lecturers unable to view all the reporting through the paper-based system easily. Besides that, there is no proper management system available for the lecturers to check the status of the student and the certification. FTMK Professional Certificate Management System lay its role by making all the process computerized. By going to the computerized process, we can make the tracking process more flexible and faster as the data is stored in the database. This system also able to replace the current attendance system to online attendance system.

**2.2 Problem Decomposition for the Proposed System**

Table 2.2.1: Problem Decomposition Table of the proposed system

|  |  |  |
| --- | --- | --- |
| **No** | **Problem Statements** | **Solution** |
| 1. | Students’ payment details are not centralized in one place and need to check manually. | All the students’ payment details are saved inside the management system. |
| 2. | Students’ payment details are hard to keep track and trace its progress. | The management system uses SQL statement to find the relationship between students and payment status. If student’s payment is RM 400 hence fully paid will be shown else will show not fully paid. |
| 3. | Course Instructor must take the attendant manually in paper-based and later convert to excel which is very tedious. | The management system enables course instructor to register class together with all the students and then take their attendance. |
| 4. | Lecturers cannot directly get the name of the students who haven’t pay for the certificate. | The management system able to show the number of students who haven’t finish their certificate payment in the forms of graph or table. |
| 5. | Lecturers hard to trace the students by course, by group, by cohort. | The management provide overview interface for lecturers to view students’ details based on the selected criteria such as cohort, course etc. |

**2.3 Structure Chart**

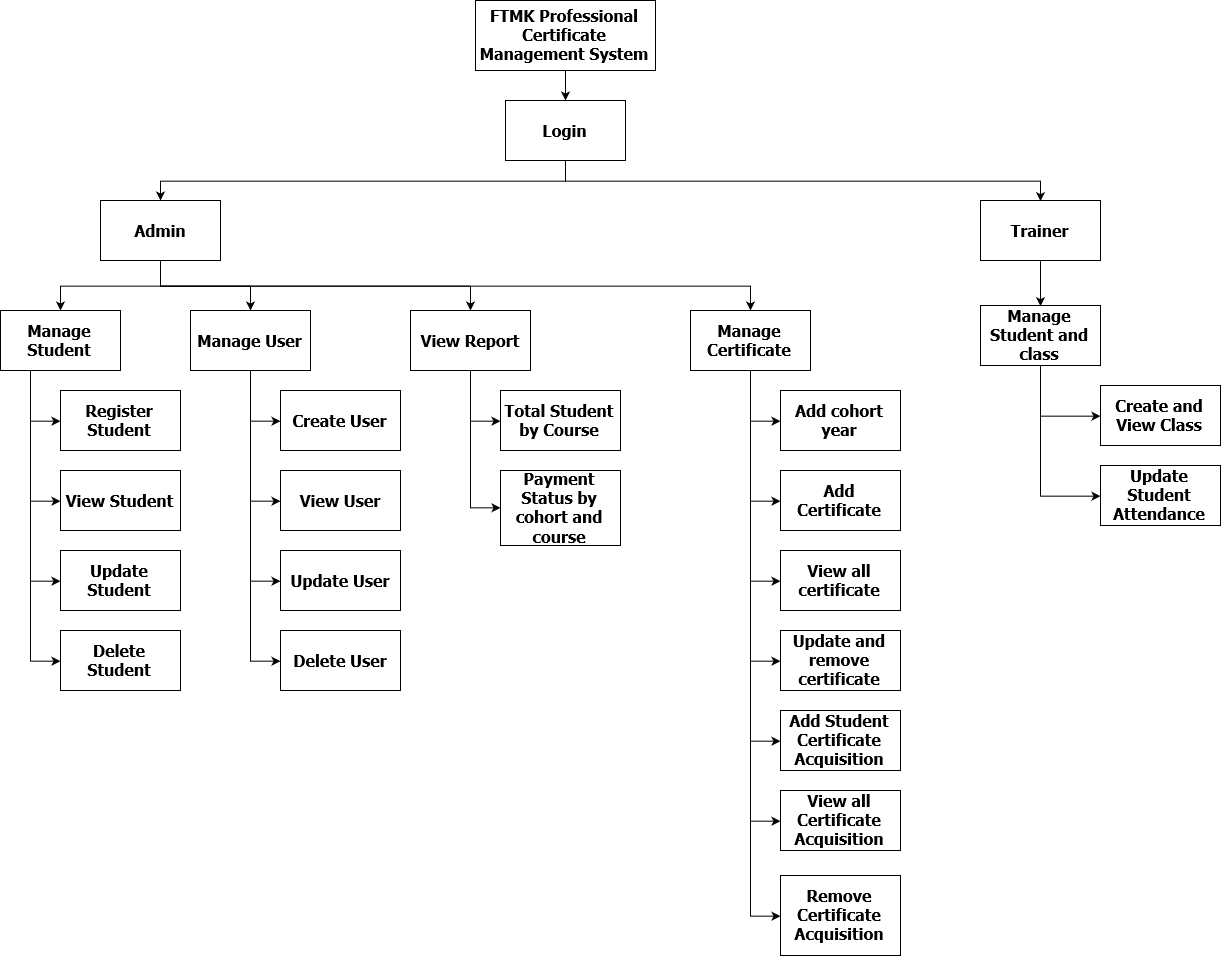


Figure 2.3.1: Decomposition Diagram of the System

**CHAPTER 3**

**DESIGN**

**3.1 Introduction**

When we talk about design, it is an early sketch of our project. Doesn’t matter your project is categorized as which field, sketching ideas would be the first step before you proceed with all other technical and complex tasks. You will not be able to come out with a good outcome if you skip doing the design phase even through it seems to be unnecessary to jot down all the ideas in a piece of paper but you will find it useful if you encounter some sort of malfunction towards your project Only then you know where you should refer on. Specifically, in this FTMK Professional Certificate Management System, it deals with some idea and concept sketching such as Flowchart, Entity Relationship Diagram (ERD), Data Dictionary and Interface Design. These are all the element that are needed. The same elements for this project are also apply on other Information Technology related projects.

**3.2 Flowchart**

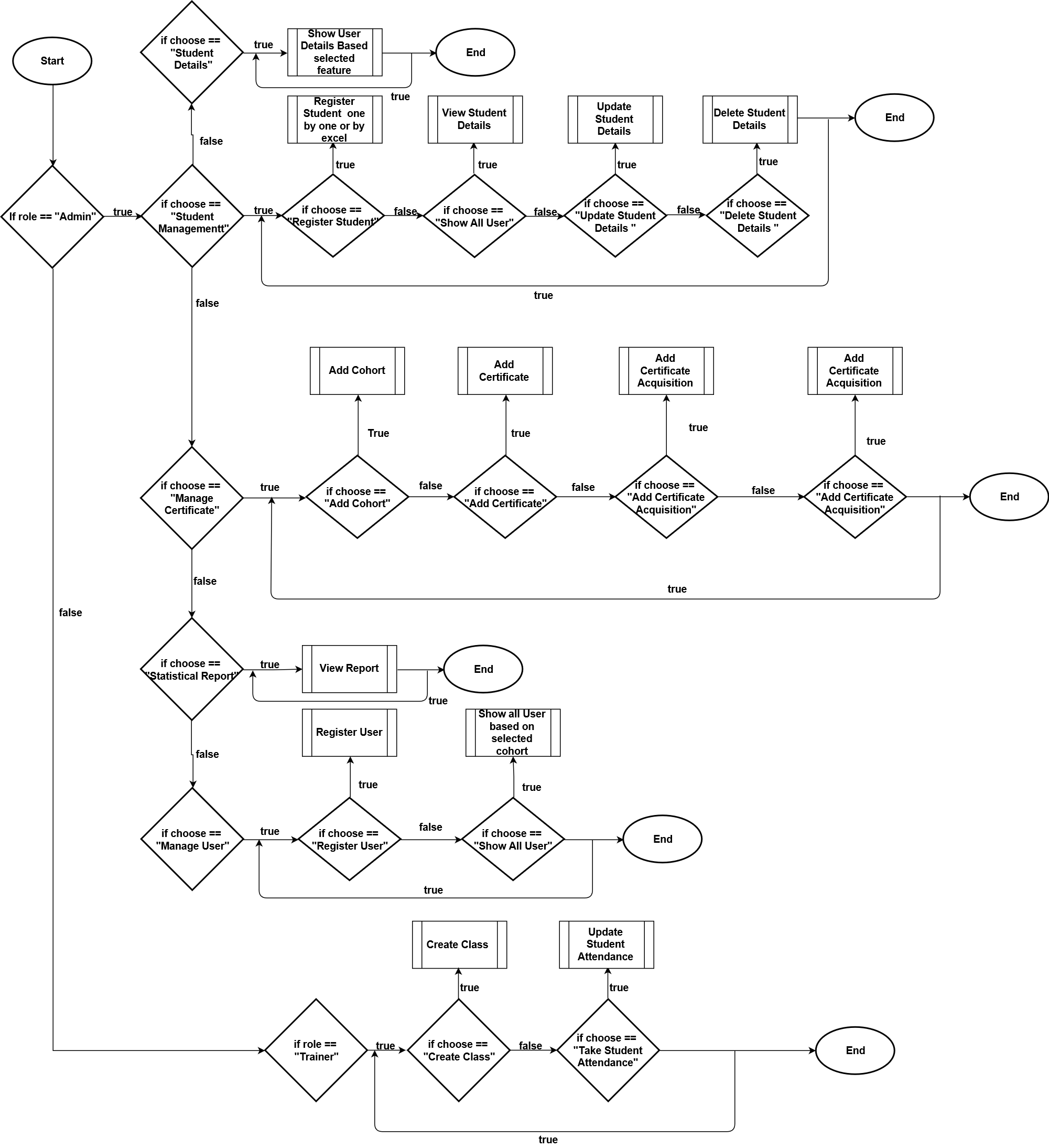


Figure 3.2.1: Flowchart of the FTMK Professional Certificate Management System

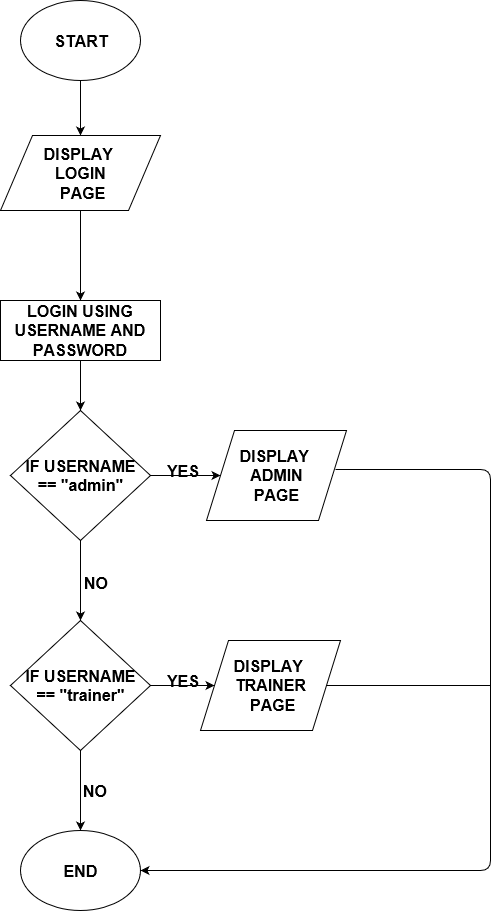


Figure 3.2.2: Flowchart of User Login

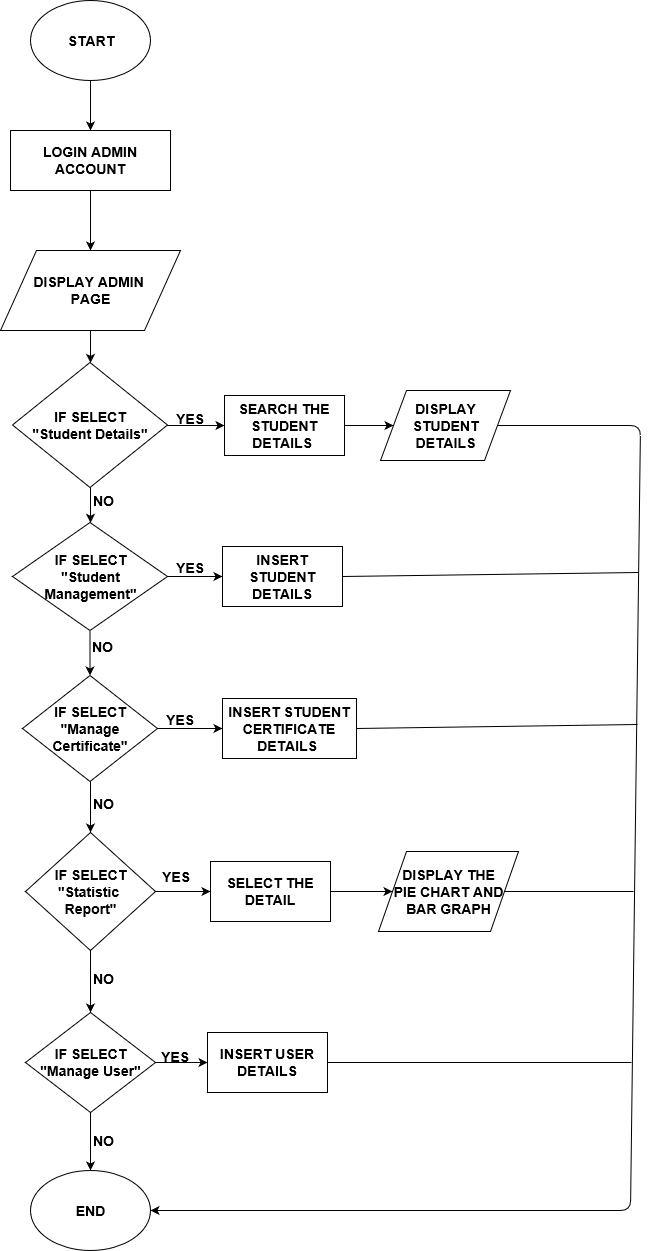


Figure 3.2.3: Flowchart of Admin

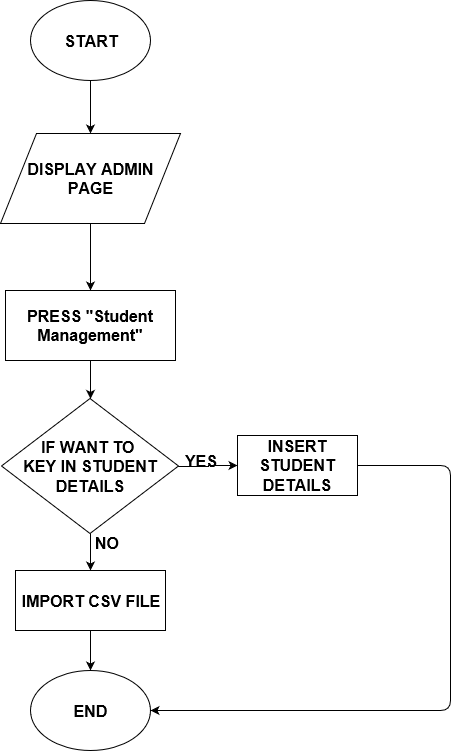


Figure 3.2.4: Flowchart of Admin Student registration

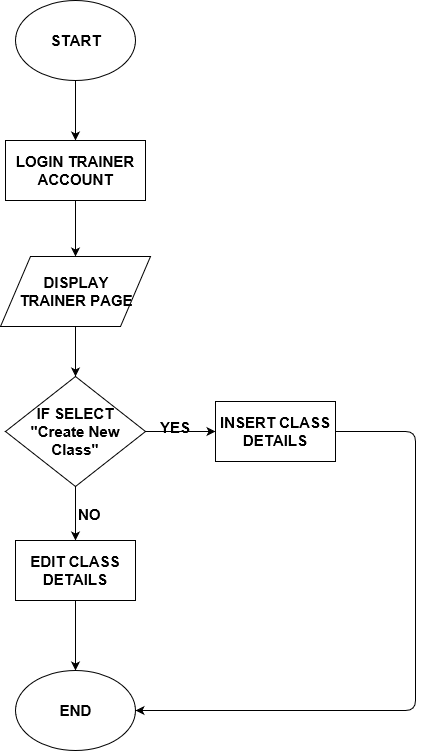


Figure 3.2.5: Flowchart of Trainer

**3.3 Entity Relationship Diagram (ERD)**

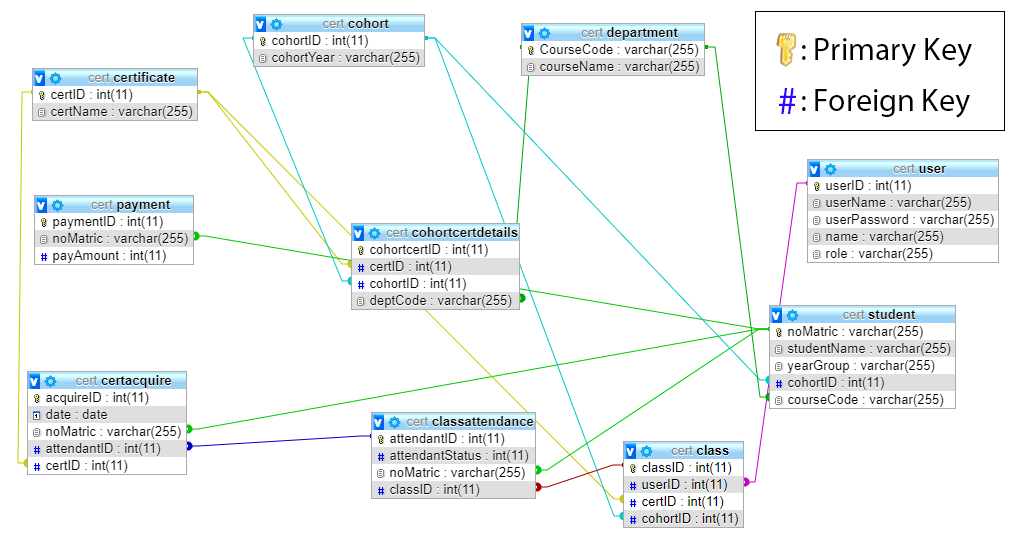


Figure 3.3.1: Entity Relationship Diagram

**3.3.1 Business Rules**

1. One Student need to have one payment
2. Admin can add new certificate and new cohort year.
3. Admin able to view statistic report of the student.
4. Admin can record certificate acquisition date if students have fully attended the training session.
5. Admin can add student together with their payment amount
6. Trainer able to take attendance of the student
7. Trainer able to add class and assign students to his/her respective class.

**3.4 Input Process Output (IPO)**

Table 3.4.1 IPO chart for student details

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
| * Input Course * Input Seksyen * Input Cohort * Input Payment * Input Attendance * Input Certificate | * Join table certacquire, certificate, class, classttendance, cohort, cohortcertdetails, department, payment, student, user | * Index * Matric Number * Name * Section * Cohort * Payment * Attendance * Cert Acquisition * CourseCode |

Table 3.4.2 IPO Chart for Student Management show all user

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
| * Course Code * Cohort | * Use SQL Join to join table student, cohort, payment * Select Matric Number, Student Name, Year Group, Cohort Year, Course Code from table student * Select Payment Amount from table payment | * Index * Matric Number * Student name * Year Group * Cohort year * Course Code * Payment Amount * Options |

Table 3.4.3 IPO Chart of Statistic Report

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
| * Cohort Year * Course | * Count The number of the student by course and output in Pie Chart * Count the number of students fully paid and unpaid based on course and cohort | * Pie Chart * Bar Chart |

Table 3.4.4 IPO Chart of View User

|  |  |  |
| --- | --- | --- |
| **Input** | **Process** | **Output** |
| * Role | * Select username, name, role from the table user based on the role | * Index * username * Name * Role * Options |

**3.5 Data Flow Diagram (DFD)**

**A close up of text on a white background

Description automatically generated**

Figure 3.5.1: Level-0 Admin DFD Diagram

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Description automatically generated**

Figure 3.5.2: Level-0 Trainer DFD Diagram

A close up of text on a white background

Description automatically generated

Figure 3.5.3: Level-1 Process 1 and Process 2 User Diagram

A picture containing screenshot

Description automatically generatedFigure 3.5.4: Level-1 Process 3 Student Diagram

**A picture containing screenshot

Description automatically generated**Figure 3.5.5: Level-1 Process 5 payment Diagram

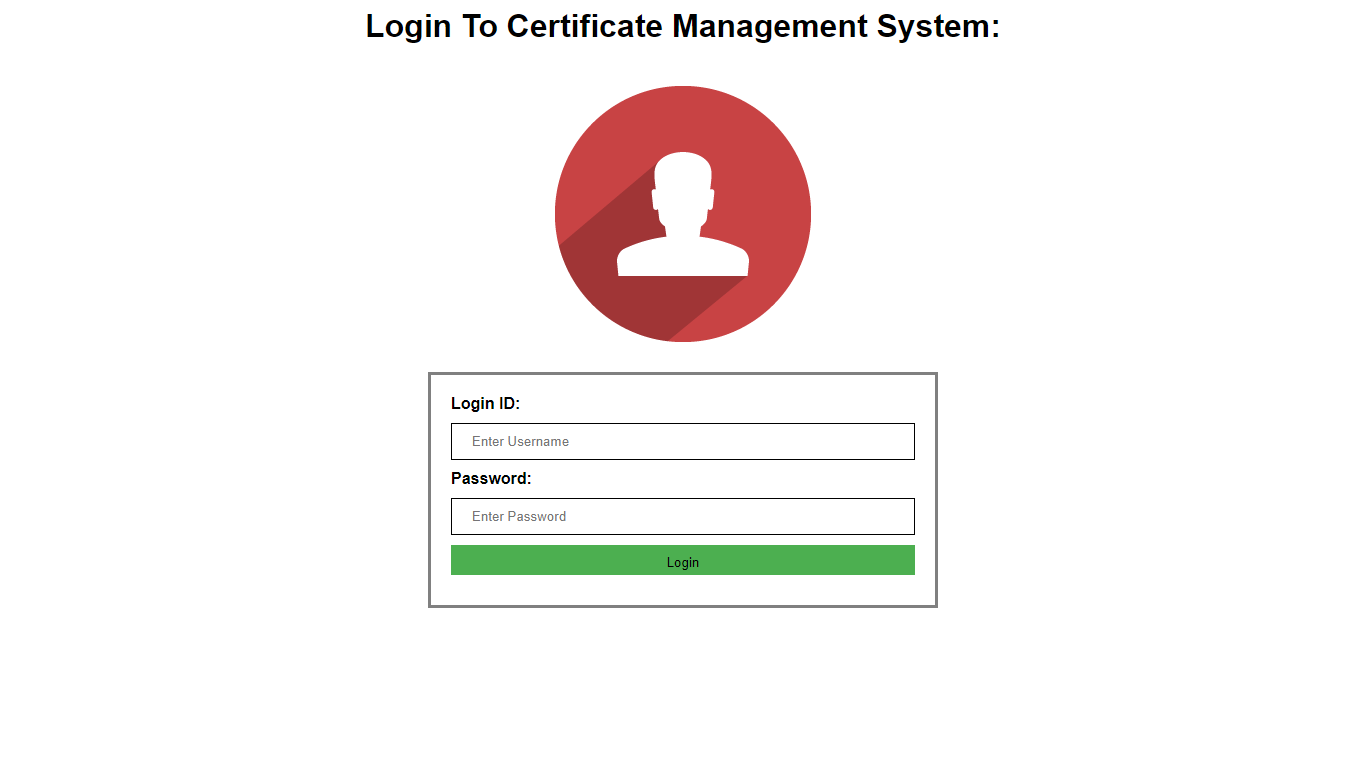
* 1. **Data Dictionary**

Table 3.6.1: Table data dictionary

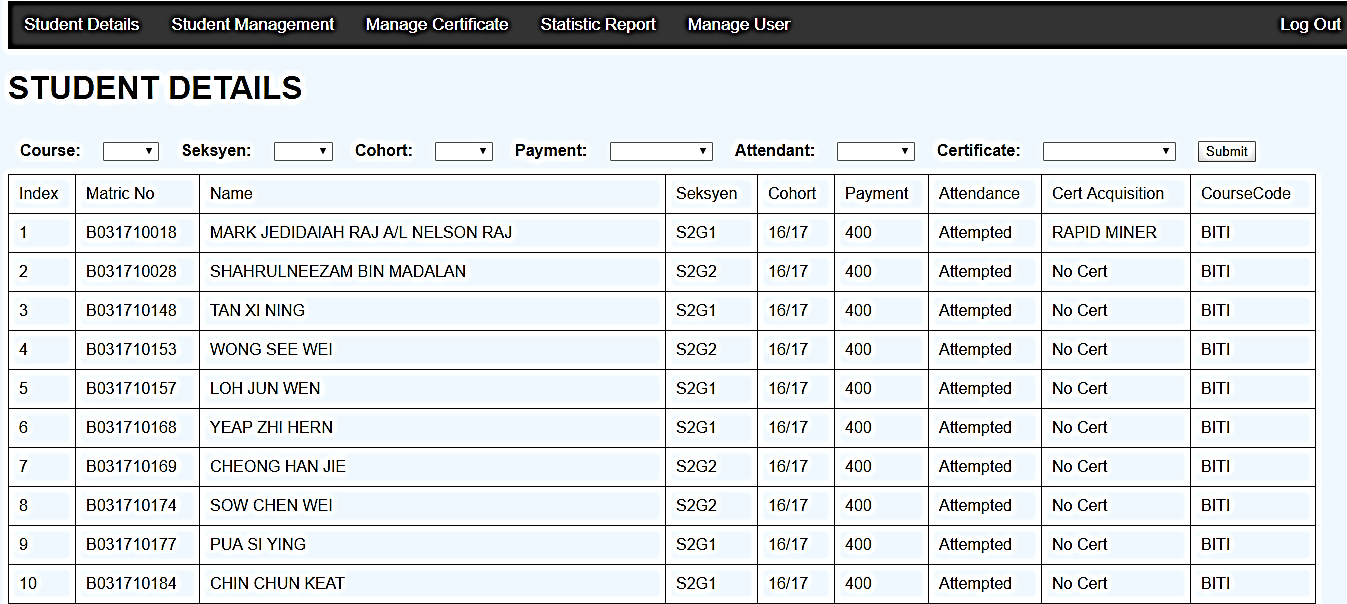
|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Table Name** | **Attribute Name** | **Content** | **Type** | **Required** | **PK/**  **FK** | **FK Reference Table** |
| Student | noMatric | Student matric number | VARCHAR | YES | PK |  |
|  | studentName | Student name | VARCHAR | YES |  |  |
|  | yearGroup | Student section | VARCHAR | YES |  |  |
|  | cohortID | ID for cohort | INT | YES | FK | Cohort |
|  | courseCode | Course code | VARCHAR | YES | FK | Department |
| User | UserID | ID for user | INT | YES | PK |  |
|  | userName | Username | VARCHAR | YES |  |  |
|  | userPassword | User password | VARCHAR | YES |  |  |
|  | name | Role name | VARCHAR | YES |  |  |
|  | role | Role for user | VARCHAR | YES |  |  |
| Payment | paymentID | ID for payment | INT | YES | PK |  |
|  | noMatric | Student matric number | VARCHAR | YES | FK | Student |
|  | payAmount | Payment amount | INT | YES |  |  |
| Certificate | CertID | ID for certificate | INT | YES | PK |  |
|  | certName | Name for certificate | VARCHAR | YES |  |  |
| Department | CourseCode | Department course code | VARCHAR | YES | PK |  |
|  | courseName | Course name | VARCHAR | YES |  |  |
| Cohort | cohortID | ID for cohort | INT | YES | PK |  |
|  | cohortYear | Cohort year | VARCHAR | YES |  |  |
| cohortCertDetails | cohortcertID | ID for cohort certificate | INT | YES | PK |  |
|  | certID | ID for certificate | INT | YES | FK | Certificate |
|  | cohortID | ID for cohort | INT | YES | FK | Cohort |
|  | deptCode | Department course code | VARCHAR | YES | FK | Department |
| Class | classID | ID for class | INT | YES | PK |  |
|  | userID | ID for user | INT | YES | FK | User |
|  | certID | ID for certificate | INT | YES | FK | Certificate |
|  | cohortID | ID for cohort | INT | YES | FK | Cohort |
| classattendance | attendantID | ID for attendant | INT | YES | PK |  |
|  | attendantStatus | Attendant status | INT | YES |  |  |
|  | noMatric | Student matric number | VARCHAR | YES | FK | Student |
|  | classID | ID for class | INT | YES | FK | Class |
| certacquire | acquireID | ID for certificate acquire | INT | YES | PK |  |
|  | date | Date | DATE | YES |  |  |
|  | noMatric | Student matric number | VARCHAR | YES | FK | Student |
|  | attendantID | ID for attendant | INT | YES | FK | classattendance |
|  | certID | ID for certificate | INT | YES | FK | Certificate |

**3.7 Interface Design**

Login Page

Figure 3.7.1: Login Page Interface

Student Details Overview Page

Figure 3.7.2: Student Details Overview Interface

Register Student Page

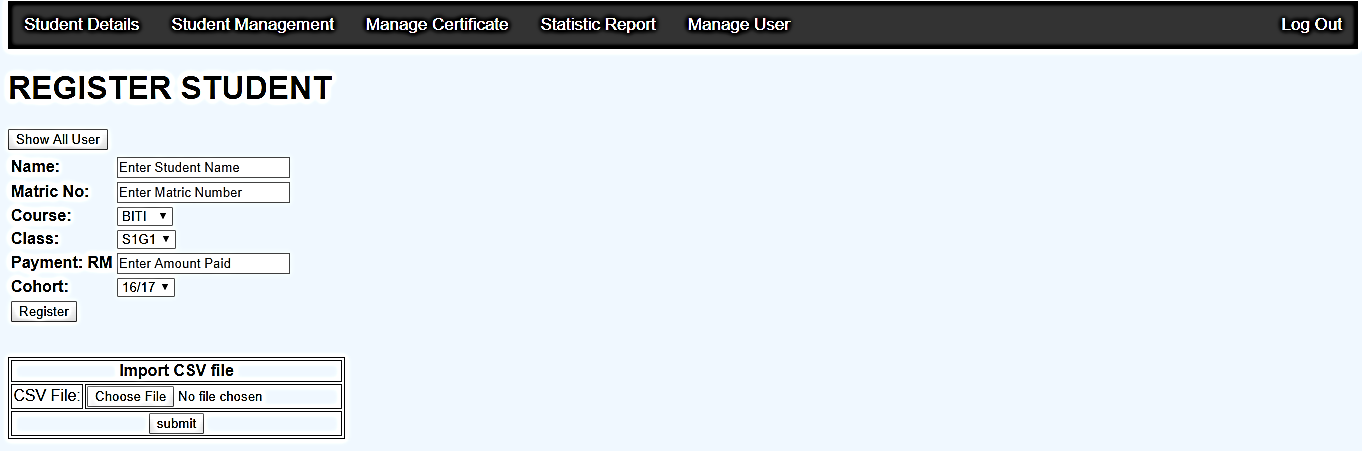


Figure 3.7.3: Register Student Page Interface

View Student Details Page

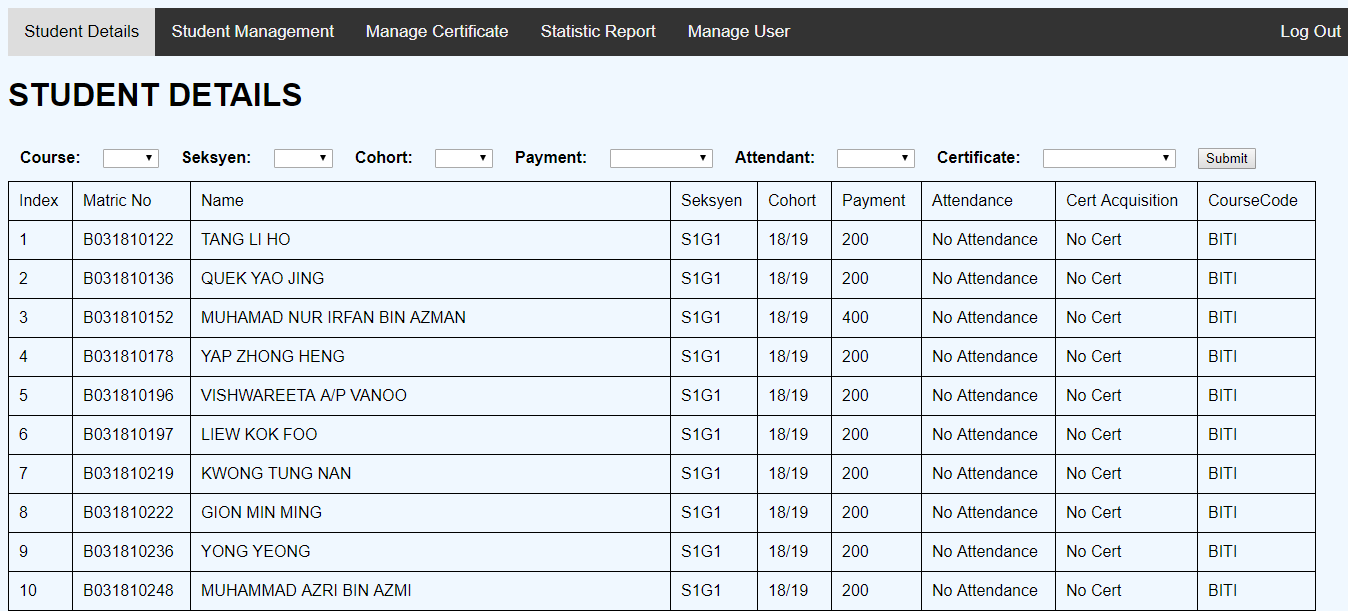
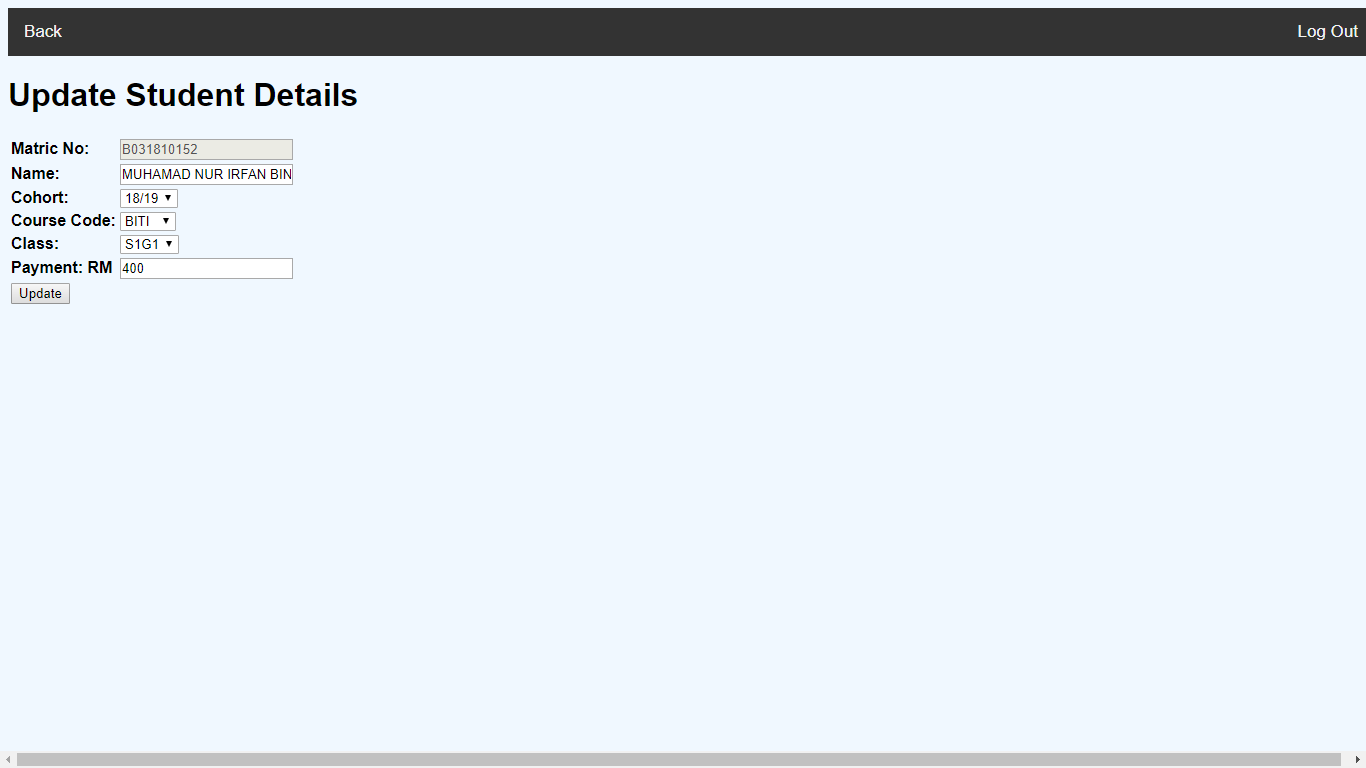
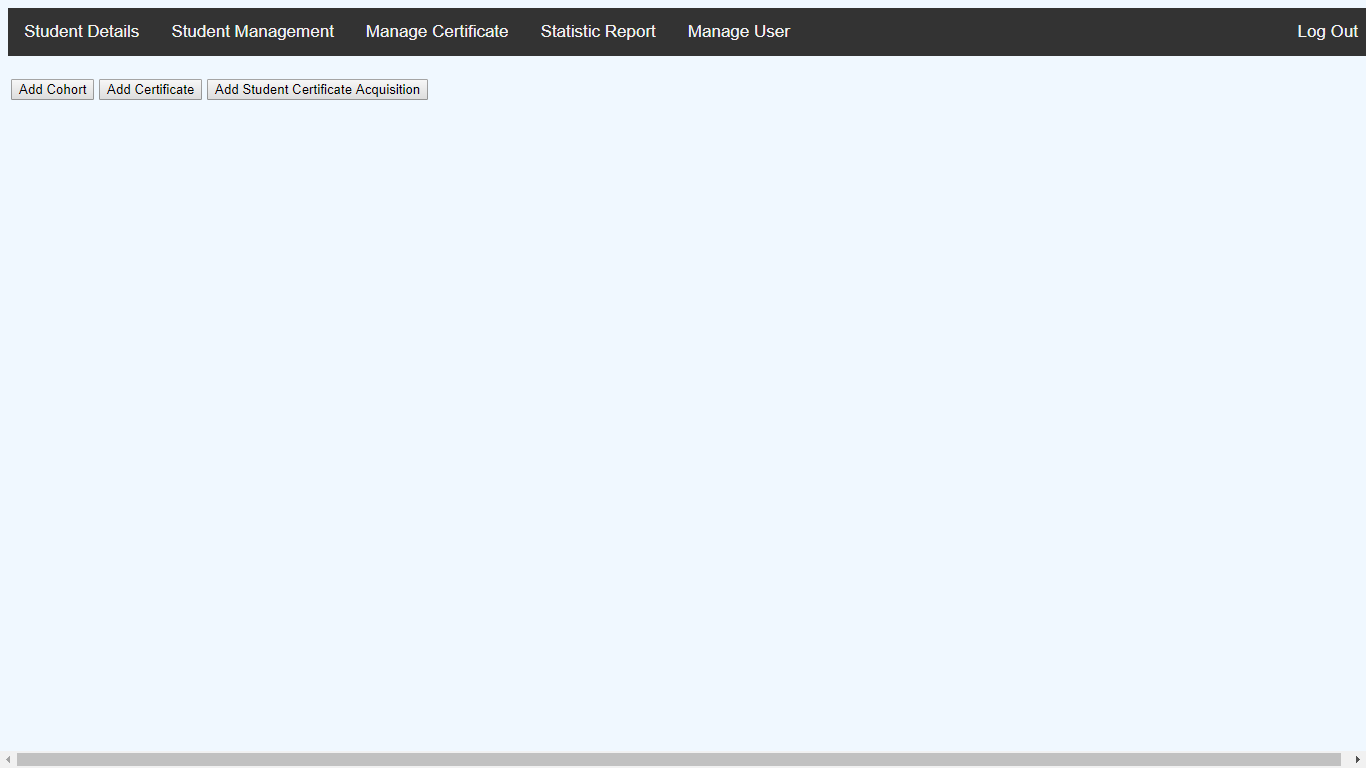


Figure 3.7.4: View Student Details Page Interface

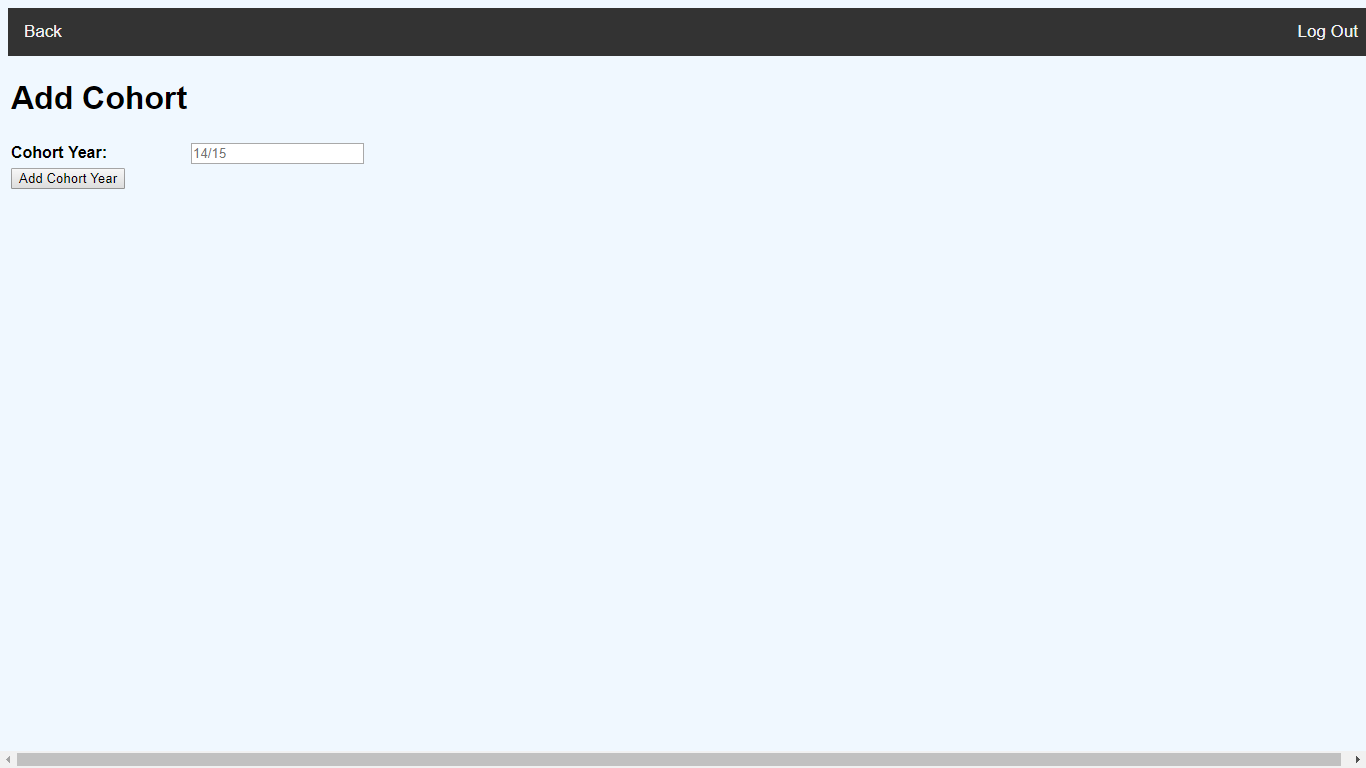
Update Student Details Page

Figure 3.7.5: Update Student Details Page Interface

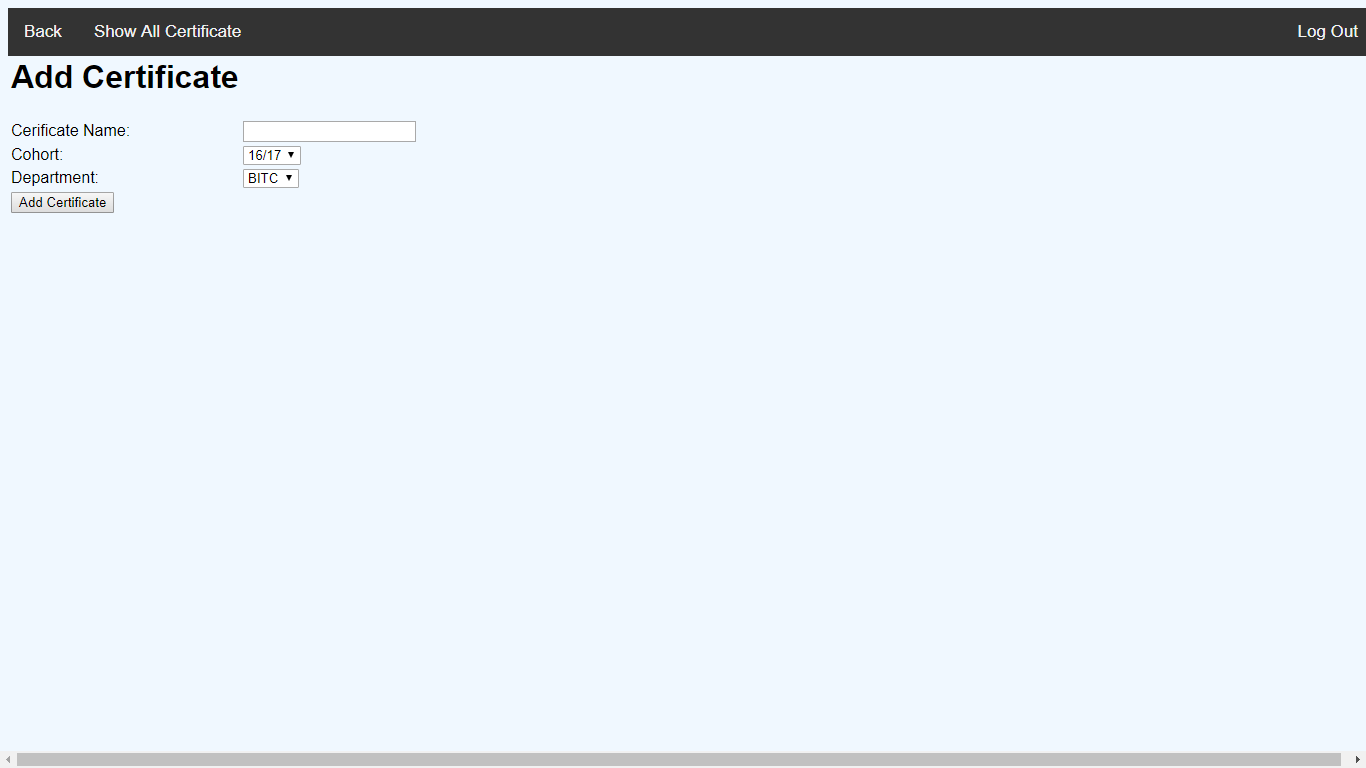
Manage Certificate Page

Figure 3.7.6: Manage Certificate Page Interface

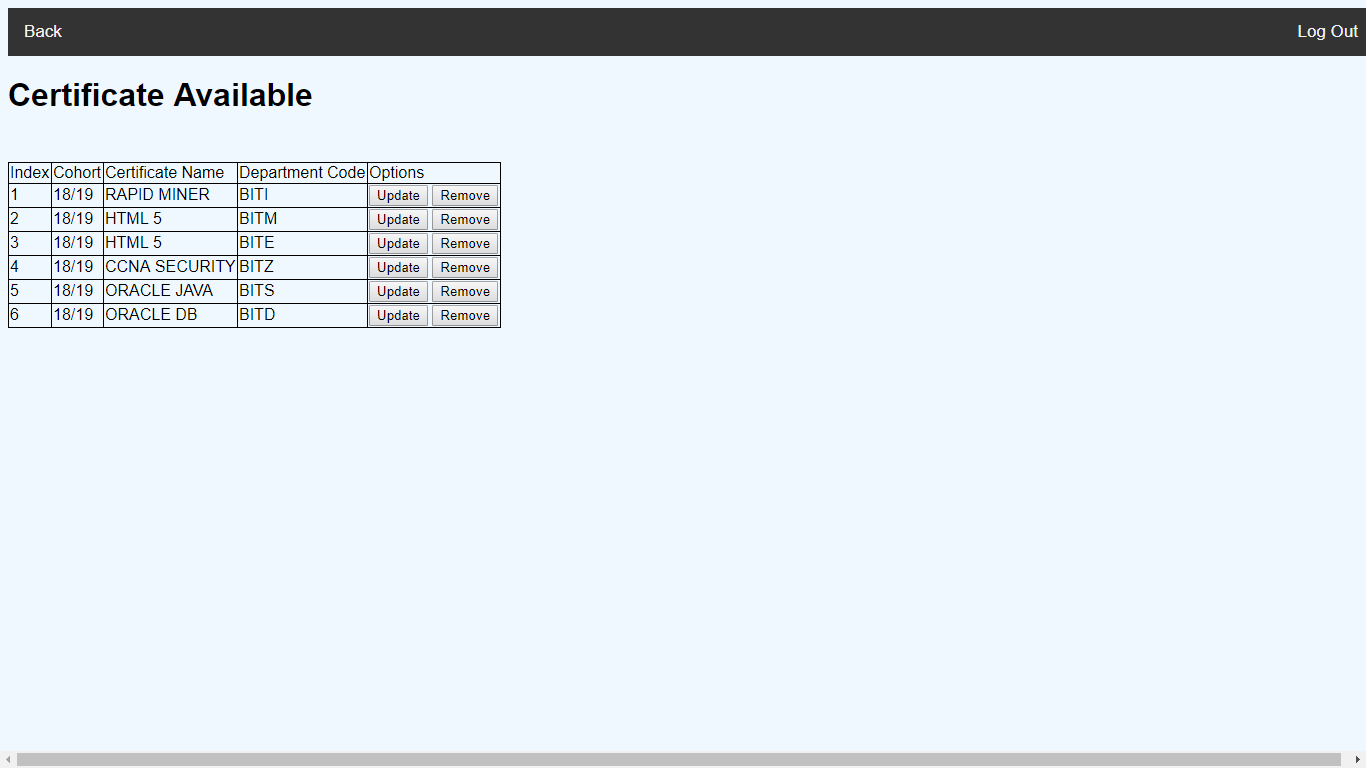
Add Cohort Page

Figure 3.7.7: Add Cohort Page Interface

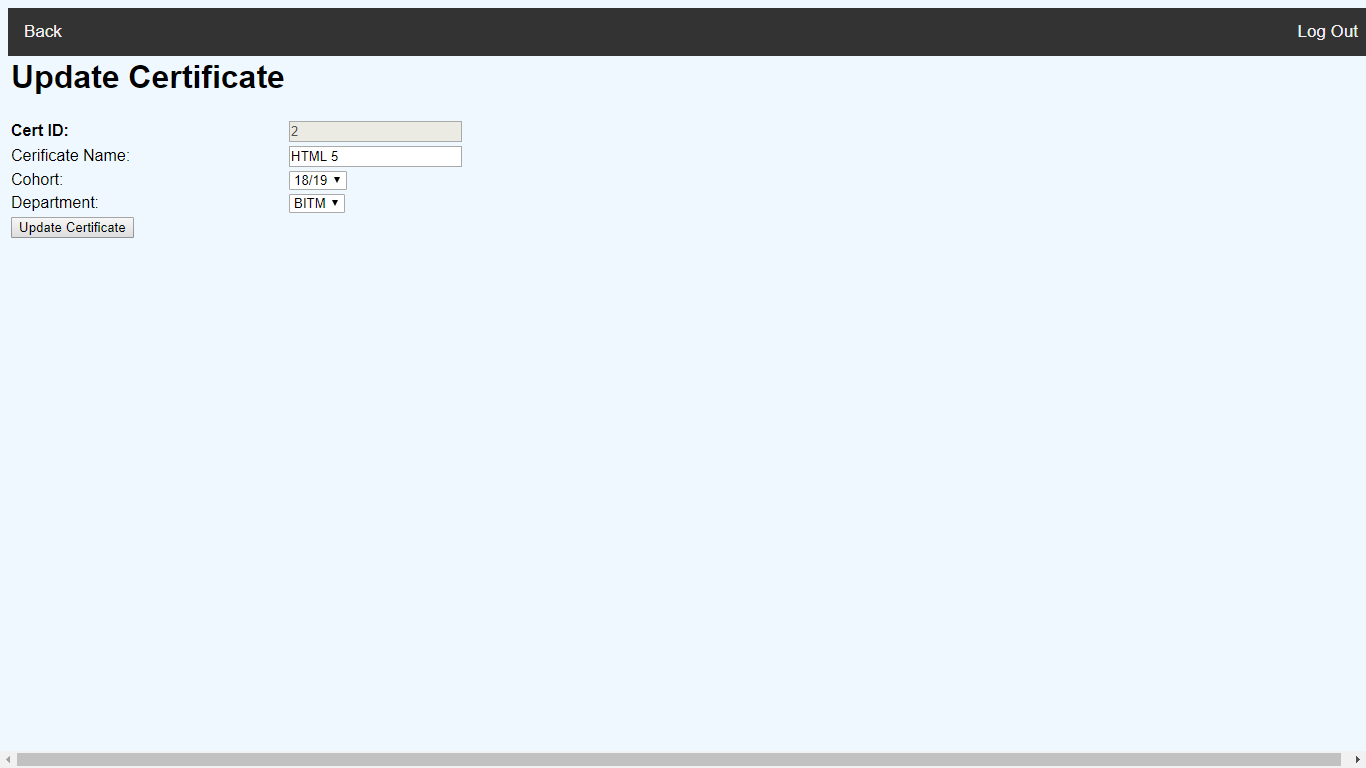
Add Certificate Page

Figure 3.7.8: Add Certificate Page Interface

Show All Certificate Page

Figure 3.7.9: Show All Certificate Page Interface

Update Certificate Page

Figure 3.7.10: Update Certificate Page Interface

Statistic Report Page

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awztSe/Tt5o9rCr60r1Vt17+TLaRxW8EdvbIscMShURRgADpS0UV5B7AUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAA4ORXm3xV+Fcfi+F9Z0JFj1uNBvjzhbtQMAE9nAGAfwPYj0mlBIORTjJwfNEUoqa5ZHxFNDLbTyQXEbxSxsUeN1KsjA4IIPQg9qZX018UfhVB4yt31bQ1jt9djX5lJ2pdqP4WPZgOjfgeMFfmy9srnTr2W0v4JLe4hbbJFIu1lPoRXrUqsai03PKq0pU3rsQUUUVqYhRRRQAUUUUAdT4X+I/ibwiBHpWoM1t/z63A8yL8Afu/gRXqug/tD2Fxtj8TaRJbMeDPZtvX6lTgj8zXgNFYzoU56tG0K1SGiZ9g6V478Ja3Grad4gsizdIpZRE//AHy2D+ldAqb0DxsrqeQVOQa+Hqt2Orajpb79N1C6s2zndbzNGf0IrneD/lkdCxn80T7W8tvSk2N/dP5V8lQfE/xrbY8vxJfHH/PRw/8A6EDXdfC74meLtf8AiLpek6vq5ubKfzfMjNvEu7bC7D5goPUA9axlhpxTd1obRxMJNKz1Pe9jf3T+VL5bHtXgvij4n+LbPxRqtjaaoIbe2vZoY1W3jJCq5AGSuegrnbn4h+LbpCsuvXig/wDPJ/LP5riumOXVZJO6OaWY0Ytqz/A+m5AsMZeaRI0HVmbAFc5q/wAQvCmiZF1q0U8o/wCWVr+9b6fLwPxIr5qur26vZN97czXD/wB6WQufzNQV0Qyxfbl9xzTzR/Yj957DrPx1O14/D2khCchZ7tske+xf8a811zxTrXiOYvrGoTXAzkR5wi/RRwKyKK9ClhqVL4UefVxNWr8bCiiiug5wooooAKKKKACrFhYXWqahDZafA9xczttjjQcsf8O+egFSaVpN9reox2OlWz3NzIflRB+pPQD3PFfRPgTwHZ+CdP3uUudWnXE9yBwo/uJnovv1J5PYDjxOKjQj3fY7MLhZV5dl3DwD4Gt/BWlMZSk+q3IH2icDhR/cX/ZH6nk9AB1NBOetFfOTnKcnKW7PpIQjCKjFaIKKKKkoKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAAHByK5Px58OtJ8eWJMyraarGuIL1F5/3X/vL+o7d89ZRTTcXdCaUlZnxz4n8K6t4R1ZtP1u2MUmMxyDlJV/vK3cfy71jV9pazoumeI9MfT9cs47u3cdHHKn1U9QfcV4D49+CWp+H/N1Dw35mp6aMsYwMzQD3A+8Pcc+3evQpYlS0lozz6uGcdY6o8roo6UV1nIFFFFABRRRQAUUUUAFd18Fv+SvaL/23/8ARElcLXdfBb/kr2i/9t//AERJWdX+HL0ZpS/iR9UHjH/kedd/7CVx/wCjWrGrZ8Y/8jzrv/YSuP8A0a1Y1erT+Beh5FT436hRRRWhAUUUUAFFFFABRRTo43lkWOJGd2OFVRkk+gFADa3/AAp4N1XxfqAg02IrCrATXLj93EPc9z7V2vgv4OXN9svvFe+zteq2gOJZP97+6Pbr9K9ls7S102yjs9Nt47a3jGFjjXAFeXicfGHu0tX+B6uGy+U/eq6L8TM8L+E9K8Had9m0uLdM4Hn3LjLyn3PYegHA/OtjrRRXhyk5Pmk7s9yMVFcsVZBRRRSGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFKrFTxSUUAcX4u+E/hnxcXuDD/ZmoPz9qtlA3H1ZejfofevCvF/wp8SeEN801v8AbrBeftdqCygf7Q6r+PHvX1TTg5Ax1Hoa2p150/NGNShCfkz4eor6x8RfCzwj4m3vcaaLK6b/AJeLLEbZ9SB8p/EV5V4j/Z+1yx3zeHLuHVYRyInIilHtydp/MfSu2GJpy30OKeGqR21PI6K1dX8Ma5oLEazpN3Zj+/LCQp+jdD+BrKrpTT1RzNNaMKKKKACu6+C3/JXtF/7b/wDoiSuFruvgt/yV7Rf+2/8A6IkrOr/Dl6M0pfxI+qDxj/yPOu/9hK4/9GtWNWz4x/5HnXf+wlcf+jWrGr1afwL0PIqfG/UKKKK0ICiitrRvCOv+IGH9k6XcToT/AK0rtj/76OB+tTKUYq8nYqMZSdoq5i0qqXYKgLMxwABkk16xo3wKvJAsniDVIrZephtl3t/30cAfka9K0DwZ4f8ADCg6Vp6eeBzczfPIfxPT8MVwVcwpQ0jqzvpZdVnrPRHi/hj4S6/rzJNfRnS7I4JkuF+cj/ZTr+eBXsnhnwPoPhKMHTbUS3eMNdz/ADSH6H+EewxXQMxbqaSvIrYqrW0bsuyPXo4SlR1irvuxSxY8mkoormOoKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACgEjpxRRQA4vuUq4DqRghhkGuX1j4b+DddLNfaDbxytyZbYGFs+p2Yz+Oa6aihNrVA0no9Ty2+/Z98LXGTY6jqVox6BmSRR+BUH9a529/ZxvVydM8RW03oJ7do/1BavdKK1Vequpk6FJ9D53k/Z48Vr/q7/AEhx/wBdpAf/AEXW78O/hD4m8K/ELTdX1L7G1pb+b5jQzFj80TqOCB3YV7XRk+tOWIqSTTFHD04tNHiuu/CDxLq3ijVL6BrGOC6vJpozJMQdrOSMgKexqKL4E+ICR5+paag77Xkb/wBkFe35PrRW6x1dKya+4weAoN3af3nklt8BVGDfeIR7rDbf1Lf0rasfgn4YtmDXlzfXh7o0gRT/AN8gH9a9BorOWLxEt5GkcHh47RMjTfCPhvR8HTtEtI2HSR497j/gTZP61smRsYHA9BTaK55Nyd5O50RSirRVgooopDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKA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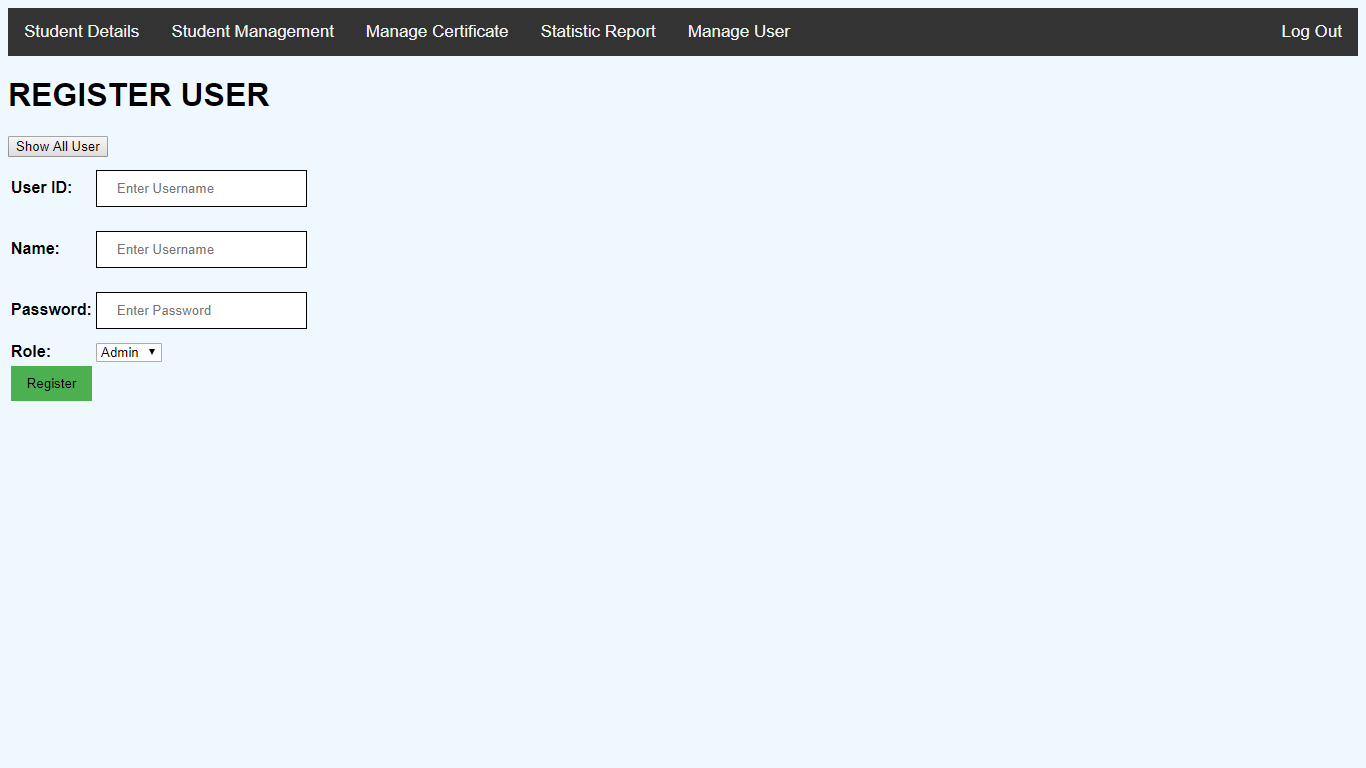
Figure 3.7.11: Statistic Report Page Interface Number of Student by Course

![A screenshot of a cell phone

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Figure 3.7.12: Student Payment Status

Register User Page

Figure 3.7.13: Register User Page Interface

Show All User Page



Figure 3.7.14: Show All User Page Interface

Update User Page

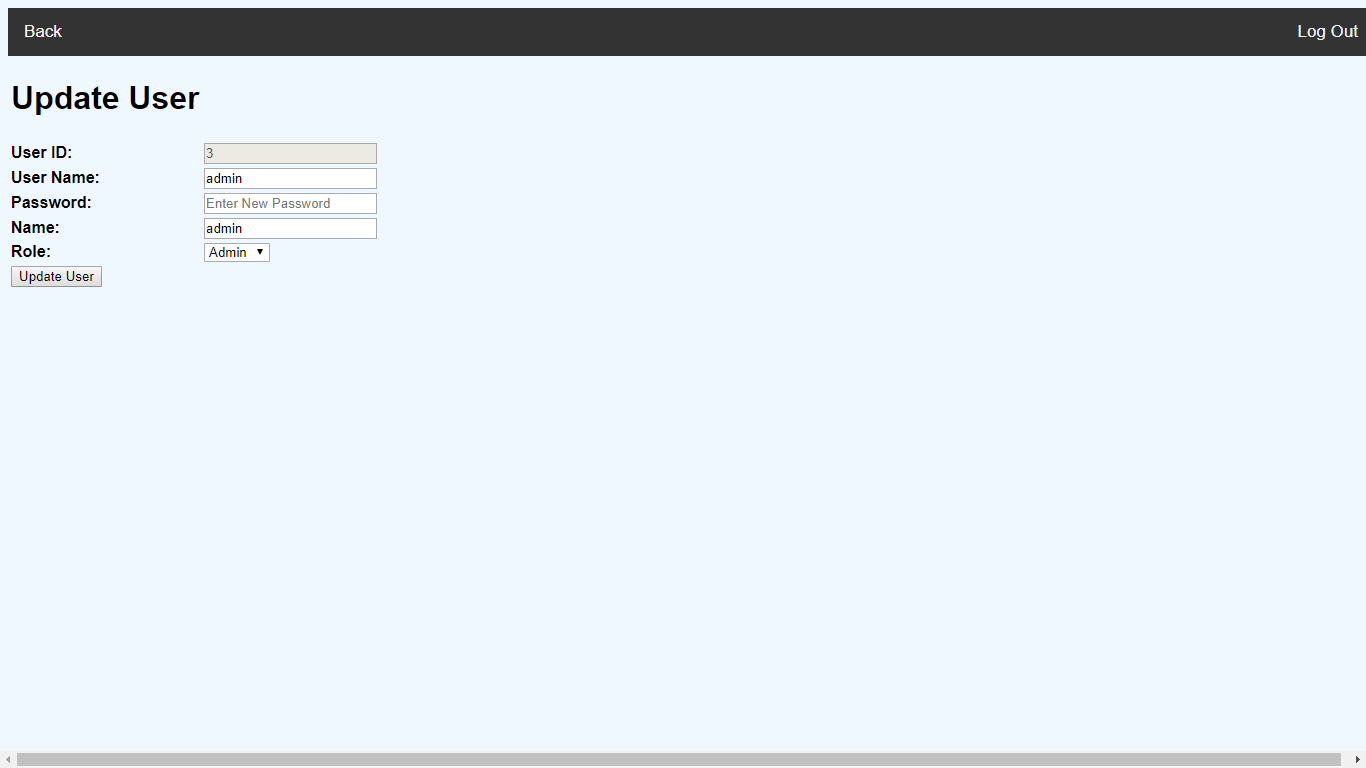
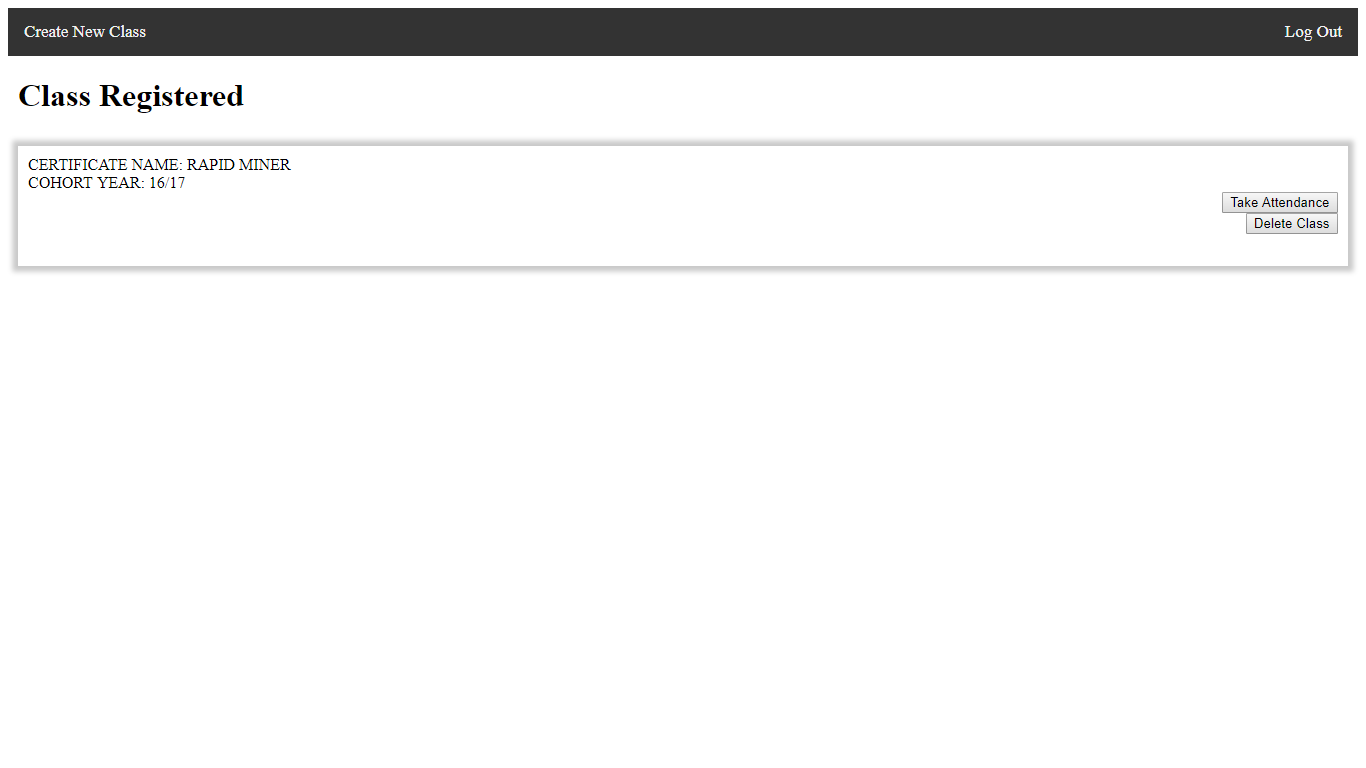


Figure 3.7.15: Update User Page Interface

Trainer Dashboard Page

Figure 3.7.16: Trainer Dashboard Page Interface

Trainer Create Class Page

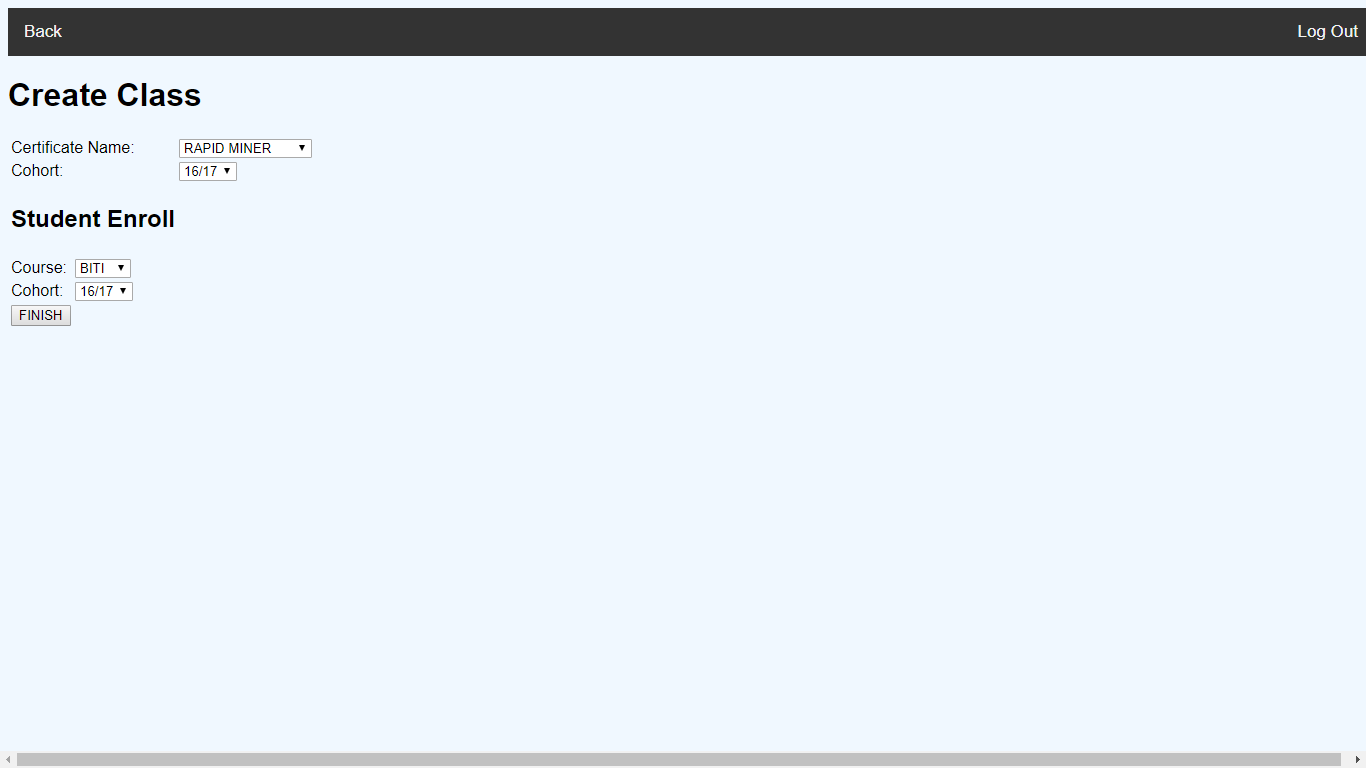


Figure 3.7.17: Trainer Create Class Page Interface

Take Attendance Page

![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDSRXhpZgAATU0AKgAAAAgABAE7AAIAAAAEU2t5AIdpAAQAAAABAAAISpydAAEAAAAIAAAQwuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFkAMAAgAAABQAABCYkAQAAgAAABQAABCskpEAAgAAAAMwNgAAkpIAAgAAAAMwNgAA6hwABwAACAwAAAiMAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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M4JweoOCCCAa3/APhBdJ/5+9f/APCiv/8A49R46/5F61/7DOl/+l8FdHQBzn/CC6T/AM/ev/8AhRX/AP8AHqP+EF0n/n71/wD8KK//APj1dHRQBzn/AAguk/8AP3r/AP4UV/8A/HqP+EF0n/n71/8A8KK//wDj1dHRQBzn/CC6T/z96/8A+FFf/wDx6j/hBdJ/5+9f/wDCiv8A/wCPV0dFAHOf8ILpP/P3r/8A4UV//wDHqP8AhBdJ/wCfvX//AAor/wD+PV0dFAHOf8ILpP8Az96//wCFFf8A/wAeo/4QXSf+fvX/APwor/8A+PV0dFAHFW2hWmi/FDSfsc1/J52jX+77ZqNxdYxNZ42+a7bevOMZ4z0FdrXOX3/JUND/AOwNqP8A6Osq6OgAooopiOI0zWf7N1HWLryPM/tO8W6278eVi3hh25xz/qd2ePvY7ZOl/wAJf/04/wDkb/7Giis7s25UH/CX/wDTj/5G/wDsaP8AhL/+nH/yN/8AY0UUXYuVB/wl/wD04/8Akb/7Gs3U9Z/tLUdHuvI8v+zLxrrbvz5ubeaHbnHH+u3Z5+7jvkFFF2PlRpf8Jf8A9OP/AJG/+xo/4S//AKcf/I3/ANjRRRdi5UH/AAl//Tj/AORv/saP+Ev/AOnH/wAjf/Y0UUXYcqD/AIS//px/8jf/AGNH/CX/APTj/wCRv/saKKLsOVB/wl//AE4/+Rv/ALGj/hL/APpx/wDI3/2NFFF2HKg/4S//AKcf/I3/ANjWbqes/wBpajo915Hl/wBmXjXW3fnzc280O3OOP9duzz93HfIKKLsfKjS/4S//AKcf/I3/ANjR/wAJf/04/wDkb/7Giii7FyoP+Ev/AOnH/wAjf/Y0f8Jf/wBOP/kb/wCxooouw5UH/CX/APTj/wCRv/saP+Ev/wCnH/yN/wDY0UUXYcqD/hL/APpx/wDI3/2NH/CX/wDTj/5G/wDsaKKLsOVB/wAJf/04/wDkb/7Gj/hL/wDpx/8AI3/2NFFF2HKg/wCEv/6cf/I3/wBjR/wl/wD04/8Akb/7Giii7DlQf8Jf/wBOP/kb/wCxo/4S/wD6cf8AyN/9jRRRdhyoP+Ev/wCnH/yN/wDY0f8ACX/9OP8A5G/+xooouw5UH/CX/wDTj/5G/wDsaP8AhL/+nH/yN/8AY0UUXYcqD/hL/wDpx/8AI3/2NH/CX/8ATj/5G/8AsaKKLsOVB/wl/wD04/8Akb/7Gj/hL/8Apx/8jf8A2NFFF2HKg/4S/wD6cf8AyN/9jR/wl/8A04/+Rv8A7Giii7DlQf8ACX/9OP8A5G/+xo/4S/8A6cf/ACN/9jRRRdhyoP8AhL/+nH/yN/8AY0f8Jf8A9OP/AJG/+xooouw5UH/CX/8ATj/5G/8AsaP+Ev8A+nH/AMjf/Y0UUXYcqD/hL/8Apx/8jf8A2NH/AAl//Tj/AORv/saKKLsOVB/wl/8A04/+Rv8A7Gj/AIS//px/8jf/AGNFFF2HKg/4S/8A6cf/ACN/9jR/wl//AE4/+Rv/ALGiii7DlQf8Jf8A9OP/AJG/+xo/4S//AKcf/I3/ANjRRRdhyoP+Ev8A+nH/AMjf/Y0f8Jf/ANOP/kb/AOxooouw5UH/AAl//Tj/AORv/saP+Ev/AOnH/wAjf/Y0UUXYcqM3U9Z/tLUdHuvI8v8Asy8a6278+bm3mh25xx/rt2efu475Gl/wl/8A04/+Rv8A7Giii7HyoP8AhL/+nH/yN/8AY0f8Jf8A9OP/AJG/+xooouxcqD/hL/8Apx/8jf8A2NH/AAl//Tj/AORv/saKKLsOVB/wl/8A04/+Rv8A7Gj/AIS//px/8jf/AGNFFF2HKg/4S/8A6cf/ACN/9jR/wl//AE4/+Rv/ALGiii7DlQf8Jf8A9OP/AJG/+xo/4S//AKcf/I3/ANjRRRdhyoP+Ev8A+nH/AMjf/Y0f8Jf/ANOP/kb/AOxooouw5UH/AAl//Tj/AORv/saP+Ev/AOnH/wAjf/Y0UUXYcqD/AIS//px/8jf/AGNH/CX/APTj/wCRv/saKKLsOVB/wl//AE4/+Rv/ALGj/hL/APpx/wDI3/2NFFF2HKg/4S//AKcf/I3/ANjR/wAJf/04/wDkb/7Giii7DlQf8Jf/ANOP/kb/AOxo/wCEv/6cf/I3/wBjRRRdhyozdd1n+2tOitfI8jy7y1ut2/dnybiObbjA6+Xtz2znnGK0v+Ev/wCnH/yN/wDY0UUXY+VB/wAJf/04/wDkb/7Gj/hL/wDpx/8AI3/2NFFF2LlQf8Jf/wBOP/kb/wCxo/4S/wD6cf8AyN/9jRRRdhyoP+Ev/wCnH/yN/wDY0f8ACX/9OP8A5G/+xooouw5UH/CX/wDTj/5G/wDsaP8AhL/+nH/yN/8AY0UUXYcqD/hL/wDpx/8AI3/2NH/CX/8ATj/5G/8AsaKKLsOVGbPrPneKLHWPI2/ZLO5tfJ3/AH/NeBt2ccY8jGMc7u2OdL/hL/8Apx/8jf8A2NFFF2PlQf8ACX/9OP8A5G/+xoooouxcqP/Z)

Figure 3.7.18: Take Attendance Page Interface

**CHAPTER 4**

**IMPLEMENTATION**

**4.1 PHP Programming Coding**

This system used PHP programming language at server-side.

**4.1.1 Database**

|  |
| --- |
| <?php  $servername = "localhost";  $username = "root";  $password = "";  $dbname = "cert";    $connect = mysqli\_connect($servername, $username, $password, $dbname);    //check connection  if(!$connect){  die("Connection failed: ".mysqli\_connect\_error());  }  ?> |

**4.1.2 Admin or Trainer Login**

|  |
| --- |
| require\_once('connect.php');  require\_once('session.php');  if ($\_SERVER["REQUEST\_METHOD"] == "POST"){  if ( ! empty( $\_POST ) ) {  if ( isset( $\_POST['username'] ) && isset( $\_POST['password'] ) ) {  $loginid = mysqli\_real\_escape\_string($connect, $\_POST['username']);  $password = mysqli\_real\_escape\_string($connect, md5($\_POST['password']));  $sql = "SELECT \* FROM user WHERE userName = '$loginid' and userPassword = '$password' ";  $result = mysqli\_query($connect,$sql);  $row = mysqli\_fetch\_array($result, MYSQLI\_ASSOC);  $count = mysqli\_num\_rows($result);  if($count == 1){  if ($row['role'] == 'admin'){  $\_SESSION['user\_id'] = $row['userName'];  header("location: admindashboard.php");  }else{  $\_SESSION['user\_id'] = $row['userName'];  header("location: trainerdashboard.php");  }  }else {  $error = "Your Login Name or Password is invalid";  echo $error;  }  }  }  } |

**4.1.3 Insert into database coding**

|  |
| --- |
| $query = "INSERT INTO user (userName,userPassword,name,role) VALUES ('$loginid', '$password','$name', '$role')";  mysqli\_query($connect, $query); |

**4.1.4 Update database record coding**

|  |
| --- |
| $sqlupdate="UPDATE user SET userName = '$userName', name = '$name', role = '$role' WHERE userID = '$userid'";  mysqli\_query($connect, $sqlupdate);  echo '  <script>  alert("Update Successfully");  </script>'; |

**4.1.5 Delete Coding**

|  |
| --- |
| $sql\_delatt = "DELETE FROM user WHERE userID = '$userid'";  $query\_delatt = mysqli\_query($connect, $sql\_delatt);  echo "  <script>  alert('Delete Successfully');  window.location.href = '/certSystem/ManageUser/manageUser.php'  </script>  "; |

**4.1.6 Search and filter database records**

|  |
| --- |
| <?php  //Get Certificate Name  $sql\_certname = "SELECT certName FROM certificate WHERE certID = '" . $row['certID'] . "'";  $result\_cert = mysqli\_query($connect, $sql\_certname);  $row\_certname = mysqli\_fetch\_array($result\_cert, MYSQLI\_ASSOC);  echo '<td>' . $row\_certname["certName"] .'</td>';  echo '<td>' . $row["deptCode"] .'</td>';  $certificateID = $row['certID'];  //check certificate and certacquire  $sql\_certificate\_certAcquire = "SELECT certificate.certID FROM certificate INNER JOIN certacquire ON certificate.certID = certacquire.certID AND certificate.certID = '$certificateID' ";  //check certificate and class  $sql\_certificate\_class = "SELECT certificate.certID FROM certificate INNER JOIN class ON certificate.certID = class.certID AND certificate.certID = '$certificateID'";  //Query student  $query\_certificate\_certAcquire = mysqli\_query($connect, $sql\_certificate\_certAcquire);  $query\_certificate\_class = mysqli\_query($connect, $sql\_certificate\_class); |

**4.1.7 Report Graph Coding**

|  |
| --- |
| **JavaScript**  function createBarchart(paid,unpaid)  {  $('#payment\_barchart').empty();  var newdata = [{y: 'Fully Paid', a: paid },{y: 'Not Fully Paid', a: unpaid},];  Morris.Bar({  element: 'payment\_barchart',  data: newdata,  xkey: 'y',  ykeys: ['a', 'b'],  labels: ['labels']  });  } |

|  |
| --- |
| **Php**  include('../connect.php');    //Payment Status by Course  $sql\_paid = "SELECT COUNT(payment.noMatric) FROM payment INNER JOIN student ON payment.noMatric = student.noMatric AND payment.payAmount >= 400 AND student.courseCode = '$courseCodePOST' AND student.cohortID = '$cohortcoursePOST'";  $query\_paid = mysqli\_query($connect, $sql\_paid);  $row\_paid = mysqli\_fetch\_array($query\_paid);  $sql\_unpaidval = "SELECT COUNT(payment.noMatric) FROM payment INNER JOIN student ON payment.noMatric = student.noMatric AND payment.payAmount < 400 AND student.courseCode = '$courseCodePOST' AND student.cohortID = '$cohortcoursePOST'";  $query\_unpaidval = mysqli\_query($connect, $sql\_unpaidval);  $row\_unpaidval = mysqli\_fetch\_array($query\_unpaidval);  $ar[] = array(  'valPaid' => $row\_paid[0],  'valUnpaid' => $row\_unpaidval[0]);  //$barchart\_data = "{y: 'Fully Paid', a:". $row\_paid[0] ." },{y: 'Not Fully Paid', a:". $row\_unpaid[0] ."},";  //$someArray = json\_decode($barchart\_data);  echo json\_encode($ar); |

**4.1.8 Import CSV File**

|  |
| --- |
| <?php  require\_once('../connect.php');  if(isset($\_POST['submit']))  {  $filename=$\_FILES["file"]["tmp\_name"];  $file = fopen($filename, "r");  //get only csv lines  fgetcsv($file);  while (($emapData = fgetcsv($file, 10000, ",")) !== FALSE)  {  $csvMatric = $emapData[0];  $csvName = $emapData[1];  $csvSection = $emapData[2];  $csvCohortYear = $emapData[3];  $csvCourse = strtoupper($emapData[4]);  $csvPayment = $emapData[5];  $sql\_cohortID = "SELECT cohortID FROM cohort WHERE cohortYear = '$csvCohortYear'";  $query\_cohortID = mysqli\_query($connect, $sql\_cohortID);  $row\_cohortID = mysqli\_fetch\_array($query\_cohortID);  $csv\_cohortID = $row\_cohortID['cohortID'];  $sqlcheckmatric = "SELECT noMatric FROM student WHERE noMatric = '$csvMatric'";  $csvresult = mysqli\_query($connect, $sqlcheckmatric);  $user = mysqli\_fetch\_array($csvresult);  if ($user['noMatric'] !== $csvMatric) {  $sql\_student = "INSERT INTO student (noMatric,studentName,yearGroup,cohortID,courseCode) VALUES ('$csvMatric', '$csvName', '$csvSection', '$csv\_cohortID', '$csvCourse')";  mysqli\_query($connect, $sql\_student);  $sql\_payment = "INSERT INTO payment (noMatric,payAmount) VALUES ('$csvMatric','$csvPayment')";  mysqli\_query($connect, $sql\_payment);  }  }  fclose($file);  echo "  <script>  alert('CSV File has been successfully Imported.');  </script>  ";  header('location: manageStudent.php');  }  else {  echo "not POST";  }  ?> |

**4.1.9 Looping Structure**

**4.1.9.1 While Loop**

|  |
| --- |
| while ($cohortID = mysqli\_fetch\_array($result2)){  if ($row\_checkCert['cohortID']==$cohortID[0])  {  echo '<option value="'. $cohortID[0] .'"" selected>'. $cohortID[1] . '</option>';  }  else  {  echo '<option value="'. $cohortID[0] .'"">'. $cohortID[1] . '</option>';  }  } |

**4.1.9.2 For Loop**

|  |
| --- |
| foreach (mysqli\_fetch\_all($query\_findstudent, MYSQLI\_ASSOC) as $key => $value) {  $student\_matric[$value['noMatric']] = $value['noMatric'];  $matric\_available = $student\_matric[$value['noMatric']];  $sql\_validatestudent = "SELECT \* FROM certacquire WHERE noMatric='$matric\_available' LIMIT 1";  $query\_validatestudent = mysqli\_query($connect, $sql\_validatestudent);  $row\_validatestudent = mysqli\_fetch\_array($query\_validatestudent);  if($row\_validatestudent['noMatric'] != $matric\_available)  {  $student\_available[$value['noMatric']] = $value['noMatric'];  }  } |

**4.1.10 If-Else Decision**

|  |
| --- |
| if ($row\_checkCert['cohortID']==$cohortID[0])  {  echo '<option value="'. $cohortID[0] .'"" selected>'. $cohortID[1] . '</option>';  }  else  {  echo '<option value="'. $cohortID[0] .'"">'. $cohortID[1] . '</option>';  } |

**4.1.11 Example Error Handling**

|  |
| --- |
| function validationForm(){  var certacquiredate = document.forms['certacquireform']['date'].value;  var todaydate = new Date();  certacquiredate = new Date(certacquiredate);    if(certacquiredate>todaydate)  {  alert("You cannot give certificate in the future!");  return false;  }  else{  return true;  }  } |

**CHAPTER 5**

**CONCLUSION**

**5.1 Conclusion**

FTMK Professional Certificate Management system is a computerized system that able to ease workload of the lecturers by making reporting easy and convenient. This system must maintain and update from time to time in order to meet all the new requirements of the faculty. This system at the same time able to minimize the errors produced by humans while able to save all the data in a centralized location. All the previous records will be saved in the system if not being deleted by the users. This will be a great help in building a big data system in the future and help in dataset construction. In addition, this system also will be a great help in saving space of the office by removing the needs of keeping track the documents in paper-based form, not to mention that computerized system is very environmentally friendly as more paper will be saved.

In the retrospect, FTMK professional certificate management system can help make the lecturers workload lighter and easier. The system is not perfect and there are several spaces is available for the improvements.

**5.2 Limitations**

The limitation aspects of interface design more works can be done and industrial standard tools such as bootstraps can be used to enhance the interface to make it become more user friendly and responsive in all the devices. The current interface design is simple and clean which is good, but there are few more space left for the improvement. Besides that, the current system cannot keep track of the student examination information for example exam payment, exam payment date and others.

**5.3 Future Works**

There several upgrades are suggested to the system as the current system can only keep track until student attendance status and certification acquisition status. First, the new upgrades would be examination function which consists of exam payment, exam date, exam grade and exam completion certificate. The exam of the certificate is not a must in FTMK but is suggested as it will be a great help to lecturers as some of the students might want to take on exam. Besides that, user interface and user experience of the system need to be improved as in order to make user use the system more easily.

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