Tribhuvan University

Faculty of Humanities and Social Sciences

"Student Admission Management System (SAMS)"

A Project Report

Submitted to

Department of Computer Application

Everest Innovative College

In partial fulfillment of the requirements for the Bachelors in Computer Application

Submitted by

Raja Ram Bhurtel (6-2-713-9-2018)

Surakshya Bhattarai (6-2-713-15-2018)

April 2021

Under the Supervision of

Pratik Bhusal

Tribhuvan University

Faculty of Humanities and Social Sciences

Everest Innovative College

Supervisor's Recommendation

I hereby recommend that this project prepared under my supervision by **Raja Ram Bhurtel** & **Surakshya Bhattarai** entitled "**Student Admission Management System"** in partial fulfillment of the requirements for the degree of Bachelor of Computer Application is recommended for the final evaluation.

SIGNATURE

Pratik Bhusal

SUPERVISOR

Department of BCA

Everest Innovative College

Soalteemode, Kalimati

Tribhuvan University

Faculty of Humanities and Social Sciences

Everest Innovative College

LETTER OF APPROVAL

This is to certify that this project prepared by **Raja Ram Bhurtel** & **Surakshya Bhattarai** entitled "**Student Admission Management System"** in partial fulfillment of the requirements for the degree of Bachelor in Computer Application has been evaluated. In our opinion it is satisfactory in the scope and quality as a project for the required degree.

SIGNATURE of Supervisor	**SIGNATURE of HOD/ Coordinator**
Pratik Bhusal Department of BCA Everest Innovative College Soalteemode, Kalimati	Kishore Kafle Department of BCA Everest Innovative College Soalteemode, Kalimati
SIGNATURE of Internal Examiner	**SIGNATURE of External Examiner**
Mr. Ashok Lamshal	Mr. Nabaraj Paudel

Abstract

Today all the work at the time of admission is done manually by ink and paper, which is very slow and consuming much efforts and time. It is required to Design of a Computerized Student Admission System, to speed up and make it easy to use system. Student admissions are a vital part of any college's running because students are what keep a college alive. The student admission is one of the most important activities within a college as one cannot survive without students. A poor admissions system can mean fewer students being admitted into a college because of mistakes or an overly slow response time. The process begins with a potential student completing an application form through the Colleges Admissions Service, the first step for students is to apply directly to the college through a custom online form. This project's aim is to automate the system, pre-checking the inclusion of all required material and automatically ranking each student's application based on a number of criteria. These criteria include their grade sheet at previous institution and their Character Certificate. The data used by the system is stored in a database that will be the center of all information held about students and the base for the remainder of the process after the initial application has been made. This enables things to be simplified and considerably quickened, making the jobs of the people involved easier. After checking these criteria system will send the applicant a mail stating the status of their application. It supports the current process but centralizes it and makes it possible for decisions to be made earlier and easier way.

Acknowledgement

We gratefully acknowledge for the assistance, cooperation & guidance provided by **Mr. Pratik Bhusal** during the development of the **Student Admission Management System**. Without his wiling disposition, frankness, timely clarification and above all faith in us, this project could not have been completed in due time. Our special thanks go to BCA Coordinator **Mr. Kishore Kafle** whose guidance, constructive suggestions, and encouragement greatly contributed to completing this report. We would also like to thank whole faculty of the college for their cooperation and important support. We would like to thank all other teaching staff for their valuable teaching and constant advice which made us to finish this project successfully.

Finally, our deepest gratitude goes to our parents who have given us much needed comfort, support, encouragement and inspiration for completing this project.

We perceive this opportunity as a big milestone in our career development. We will definitely use these gained skills and knowledge it the best possible way, and we will continue to work on their improvement, in order to attain desired career objectives. Hope to continue cooperation with all of you in the future.

Raja Ram Bhurtel (6-2-713-9-2018)

Surakshya Bhattarai (6-2-713-15-2018)

Table of Contents

List of Abbreviations

Abbreviation/Acronym	Description
SAMS	Student Admission Management System
HTML	Hypertext Markup Language
CSS	Cascading Style Sheet
PHP	Hypertext Preprocessor
XAMPP	Cross-platform, Apache, Maria DB(MySQL), PHP and Perl
MS	Microsoft
PIECES	Performance Information Economics Control Efficiency Service
WBS	Work Breakdown Structure
MYSQL	Structured Query Language
DFD	Data Flow Diagram
IS	Information System
CRUD	Create, Retrieve, Update & Delete
CASE	Computer-Aided System Engineering
CAPTCHA	Completely Automated Public Turning Test to Tell Computers & Humans Apart.
UML	Unified Modeling Language

Table of Figures

Table of Tables

Chapter 1: Introduction of the Project

1.1. Introduction

Student Admission Management System (SAMS) is a system developed to maintain the records of the students who apply to college for further study, help student to register their name easily without waiting in the queue for hours to just submit the admission form.

The main aim of the project is to develop an online student's admission application for the college. This system is an online based system that can be accessed throughout the college and outside with proper user login. This system can be used for enrollment of students in different course offered by the college. The main objective of this system is to automate the existing system of manual paper work into well-organized computer database [9]. This system will be developed using HTML, CSS, JavaScript as client-side script and PHP as the server-side script. This project will be based on Database Management System. This system will load all the information's of the students including their educational qualifications, personal details, background information, and all the information related to them [12]. This system will allow students to register to the college without standing in queue for hours.

1.2. Problem Statement

At present, admission process is done with manual paper work. The number of candidates applying for admission in the institute is large and lots of manpower are used to handle this process. Sometimes the students might have to wait for hours in queue to submit the application. The college manpower also has to manage the data of students in the computer by manually adding them which includes hard work and wastage of the resources [1][9].

The admission process occurs every year, so it is essential to simplify the manual process which is time consuming. To accomplish this goal a fully automated system is required to manage the resources efficiently and save time of both college institute and students[12]. This system will solve the problem of those students who miss the deadline of form submission as they couldn't visit the college to submit the forms due to some reasons.

1.3. Objectives

Our objective is to carry out this project with the quality requirements as mentioned below as follows:

I. To computerize the admission management system structure and its related operation by reducing unnecessary paperwork.
II. To support the administration and admission seeking candidates by providing a faster, transparent, and easy way of maintaining records.

1.4. Scope and Limitation

1.4.1. Scope

I. This project's aim is to automate the system, pre-checking the inclusion of all required material and automatically ranking each student's application based on a number of criteria.
II. The data used by the system is stored in a database that will be the center of all information held about students and the base for the remainder of the process after the initial application has been made [2].
III. This enables things to be simplified and considerably quickened, making the jobs of the people involved easier.
IV. It supports the current process but centralizes it and makes it possible for decisions to be made earlier and easy way.

1.4.2. Limitations

I. Cannot be used offline because it is an online program. So, internet connection is must.
II. Basic computer knowledge is required to operate this system.
III. Online applications make it easier for fraudsters to manipulate the application process and eligibility requirements.
IV. Building a robust and secure online admission process is a task that requires financial and infrastructural resources. Many educational institutions may not have the necessary resources and all these costs will ultimately be borne by the students [11].

1.5. Report Organization

The report starts with the introduction of the student admission management system along with problem statements and objectives of the project. Chapter 2 analyses the existing system Chapter 3 discusses the system design along with the algorithm used. The system design can be database schema design, interface design and process design along with

requirements as well as feasibility analysis of the system. The data modeling and process modeling techniques are used to give the information about the system requirement. Chapter 4 explains about the tools that are used on our projects front end, back end and purpose of it. The testing is also explained in this part. Chapter 5 discusses the conclusion of how the project is accomplished, its findings and many more.

Chapter 2: Background Study and Literature Review

2.1. Background Study

According to Macmillan English dictionary for advanced learners, “admission is defined as a permission to join a club or become a student at a college or university” [4].

According to Wikipedia, “An information system (IS) is a formal, sociotechnical, organizational system designed to collect, process, store, and distribute information” [3].

In present system, admission of students is performed manually. Students have to visit the college with their certificates and have to fill the form manually. The form filled by students have to be typed again into the computer. This gives unnecessary burden to the staffs. This system focuses on making this system computerized and to help students along with college administration. This system also helps to create a database of those students who have applied to get admission. This provides far reasonable storage facility than paper-based system. This system helps in the elimination of the errors while filling the forms as it can be edited easily before submission date [10].

2.2. Literature Review

From research, we found that most of the colleges in this locality has no any Admission Management System, they are providing the admission service through paperwork only**.** Similarly, searching on internet we found that some of the international university based local colleges such as Softwarica College, The British College offer online admission management system where we can fill up the forms and apply for the desired course. Along with these colleges, we found some of the academic projects on Admission Management System but most of them lack proper user interfaces and some features like correcting the wrong/mistake input information. Students have to visit the related college to correct the minor errors which are input wrong during filling the form.

This being an academic project, our team is concern of eliminating the errors in those Admission Management System and providing a better user experience with greater user-interface. This project is based on CRUD operation and our team will try to provide a better and upgraded software than those in the market now.

Chapter 3: System Analysis and Design

3.1. System Analysis

3.1.1. Requirement Analysis

i. Functional Requirements

The system asks for student's information, such as student name, address, phone number, email, etc. The system stores student's record.

a. Creation of new record: This function creates a record for a new student.

b. Deletion of record: This function is used to delete the existing record of any student.

c. Update in record: This function updates the information in a record of any student.

d. Display of data in record: This function displays the record of the students.

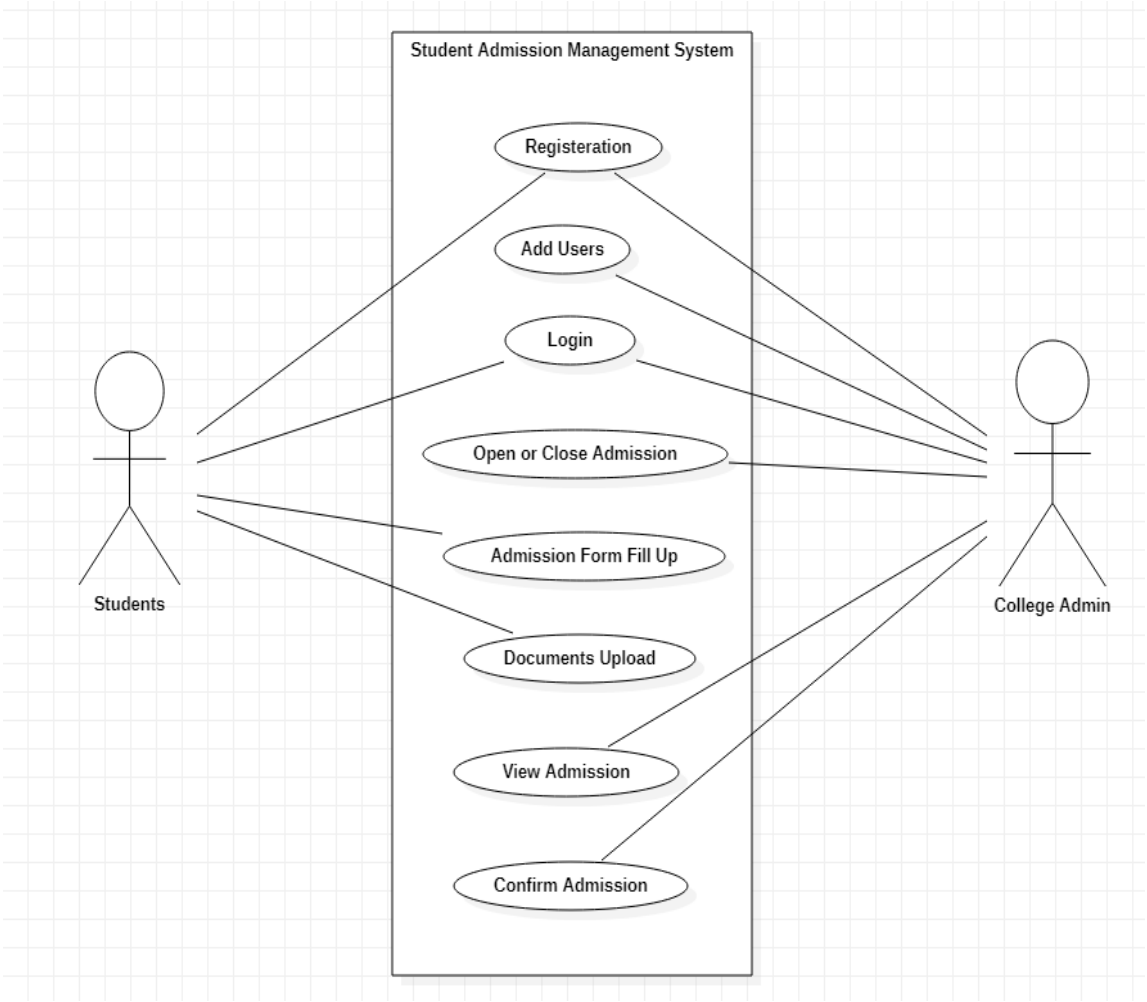

Figure 1: Use Case Diagram of SAMS

ii. Non-Functional Requirements

a. Security: Only authorized users can access the system with username and password [7].
b. Performance: Easy tracking of records and updating can be done.
c. User Friendly: The System is very interactive.
d. Maintainability: Backups for database are available.
e. View: Students should be able to view application status through mail.
f. Exchanges: The system should be adapting changes of curriculum without affecting the previous records.

3.1.2. Feasibility Study

i. Technical Feasibility Study

The project SAMS is totally a web-based system. The main tools and technologies to be used in this system to make this project more feasible are:

Table 1: Technical Feasibility Study Table

Technological requirements	**Hardware requirements**	**Software requirements**
HTML	Laptop	MS Word
CSS	Keyboard	MS Project 2016
JavaScript	Mouse	XAMPP Server
MYSQL		Canvas
PHP		MS Visio 2016

Most of the technologies used are freely available and technical skills are manageable so this project is technically feasibility.

ii. Operational Feasibility Study

The operational feasibility is a measure that how will the proposed system will solve the existing problems and the study will the system work efficiently. If the system is not efficient, it will not produce the expected benefits. Operational Feasibility measures the viability of a system in terms of the PIECES framework. There is adequate availability of the resources and the existing system lacks the proper efficiency. The existing system needs lots of manpower and this new system save the manpower as well as time. So, there is operational feasibility to run this Student Admission Management System.

Some of the questions related to operational feasibility study are:

- What if the system was not implemented?
- What are current project problems?
- How will be the proposed system help?
- What will be integration problems?
- Is new technology needed?
- Is new skill (staff, team members) required?
- What facilities must be supported by the proposed system?

iii. Economic Feasibility Study

This SAMS project is an academic project so that most of the software's would be manageable. We need a laptop and a working internet connection to run the system.

iv. Schedule Feasibility Study

This is one of the most important feasibility analyses as it helps us to estimate how much time will it take to complete the project and how much of it is on track to a given schedule.

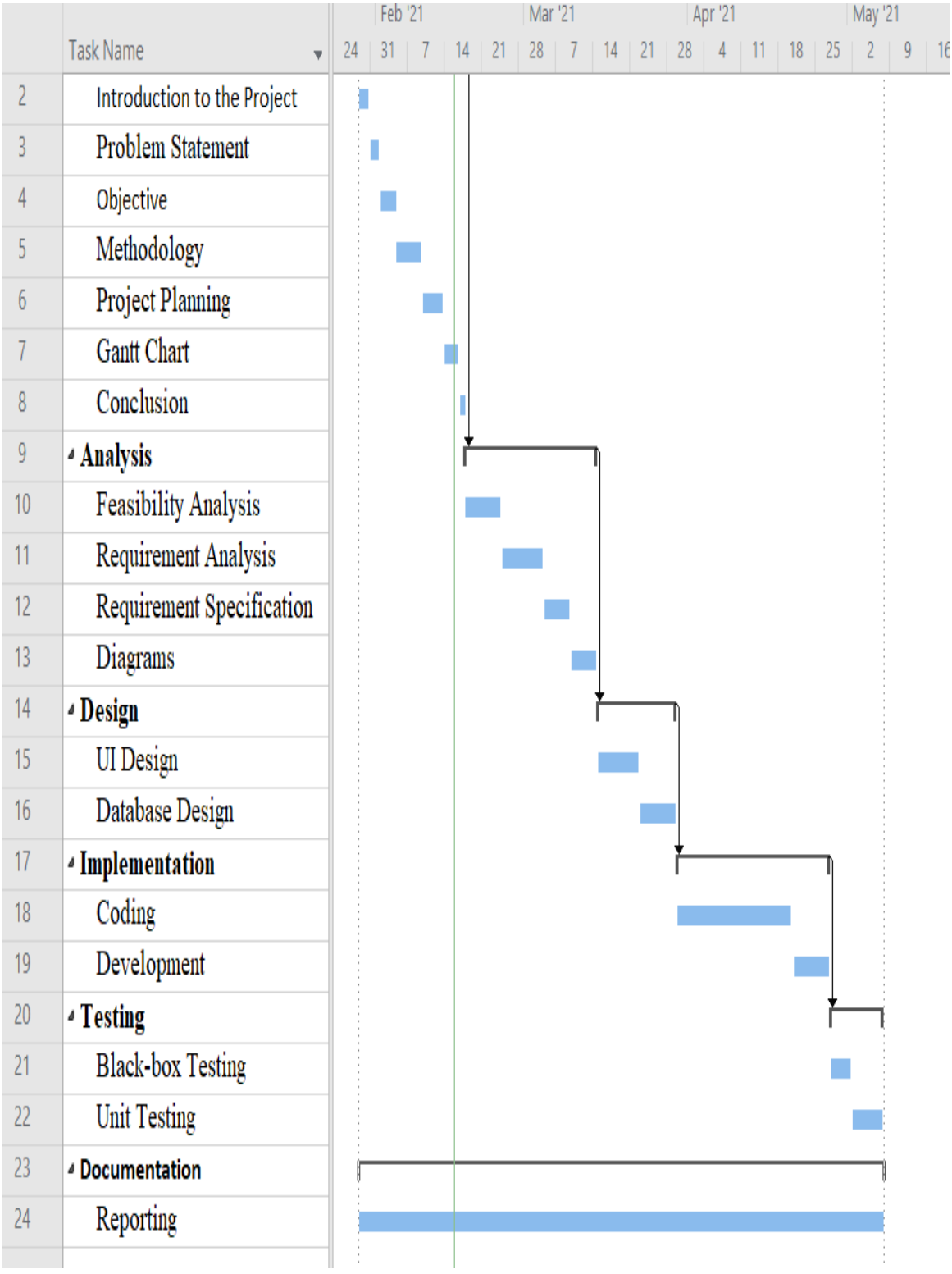

Figure 2: Gantt Chart

3.1.3. Data Modeling (ER-Diagram)

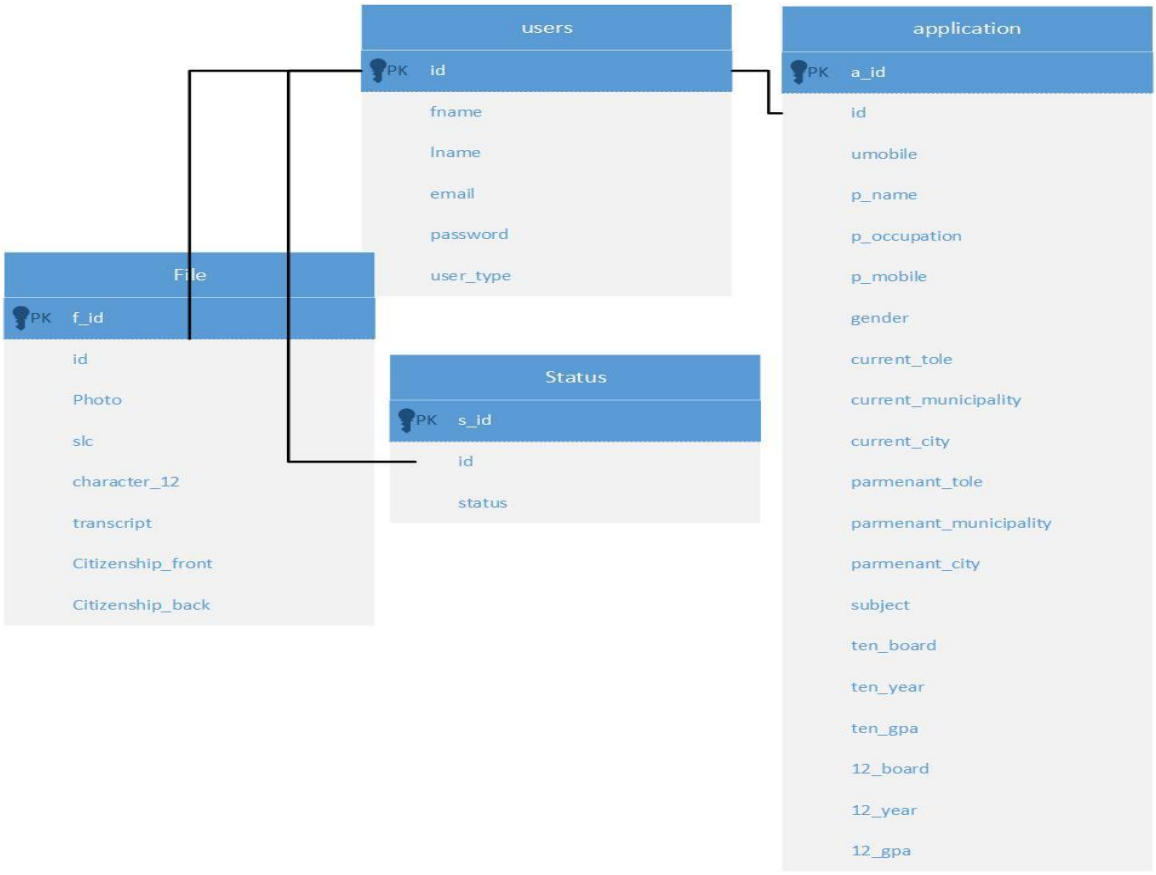

Figure 3: ER Diagram of SAMS

3.1.4. Process Modeling (DFD)

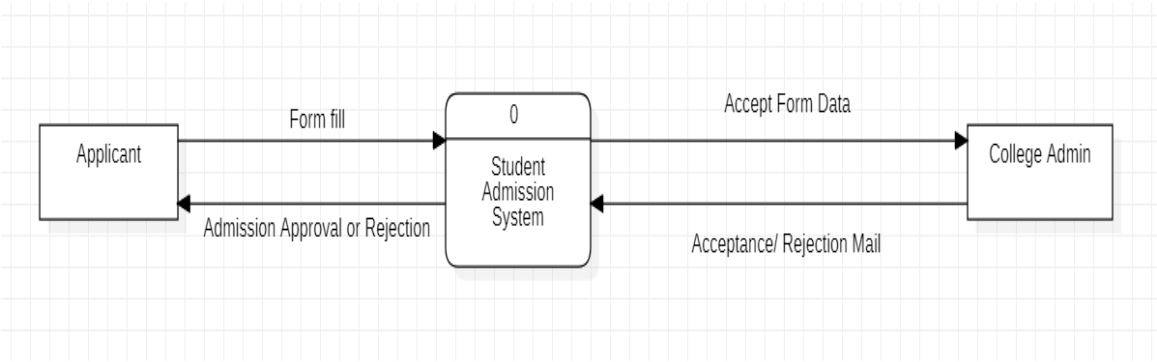

Figure 4: Context diagram for SAMS

This context level DFD shows that, in this system applicant can fill the form data for online registration system which can be view as report by college admin and approve or reject the application as per the data provided by the applicant.

3.2. System Design

3.2.1. Methodology used

The Waterfall Model was the first Process Model to be introduced which referred to as a linear-sequential life cycle model. The whole process of software development is divided into separate phases in waterfall approach [5]. In Waterfall model the outcome of one phase acts as the input for the next phase sequentially [6]. So, there is no overlapping between the phases which makes it easy and simple to follow.

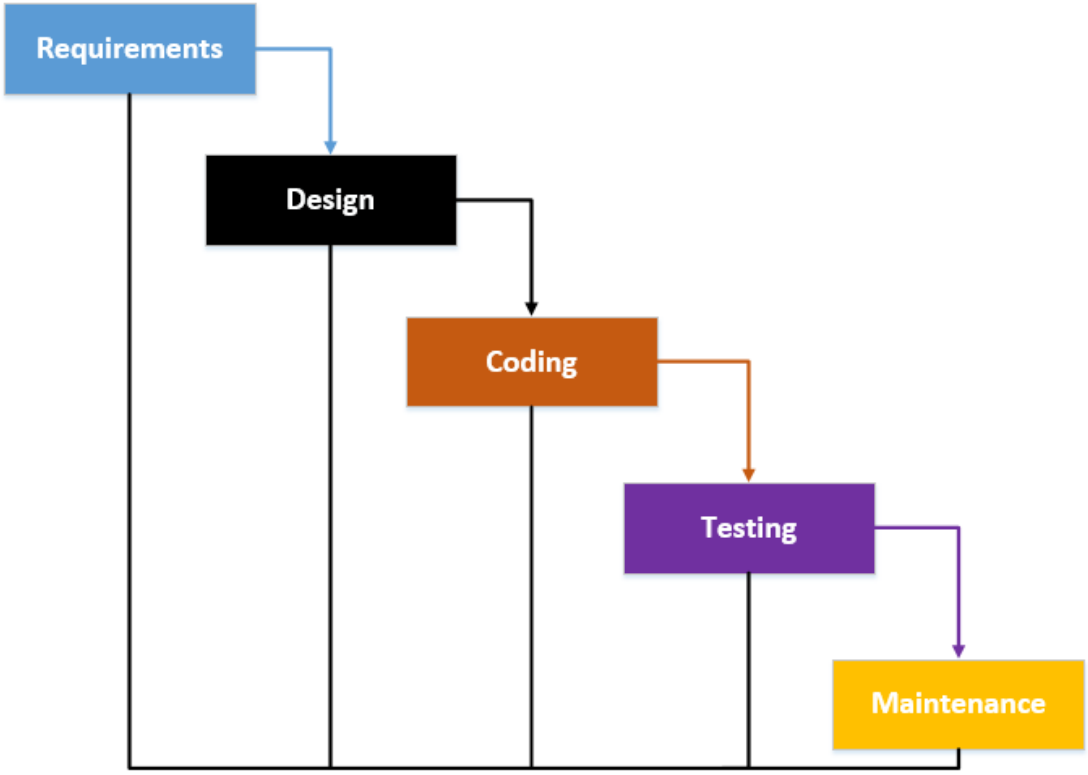

Figure 5: Waterfall Model

Requirements: All possible requirements of the system to be developed are recorded and documented in a requirement specification document.

Design: The requirement is studied in this phase and the system design is prepared with logical and physical system specifications. It helps in specifying hardware and system requirements while defining the overall system architecture.

Coding: The units of system is coded and tested in this phase with inputs from the system design. Unit testing is performed for each unit developed.

Verification: The units developed are integrated into a working system after testing of each unit. After the integration of the system a final testing is done to ensure there is no bugs and errors.

Maintenance: This phase is active when client finds any issues in the system and developers releases better versions to enhance the product.

Following are the reason behind using Waterfall Model as the development methodology:

- In this project necessities, processes and results are well documented, clear and fixed.
- Sufficient resources with essential knowledge are available to support the product.
- There are no ambiguous requirements.
- Easy to arrange tasks.
- All the phases are completed one after another.

3.2.2. Architectural Design

The developed system is a 3-Tier web-based system meaning a Client/Server Architecture in which the user interface, functional process logic, computer data storage, and data access are developed and maintained as independent modules, most often in different platforms

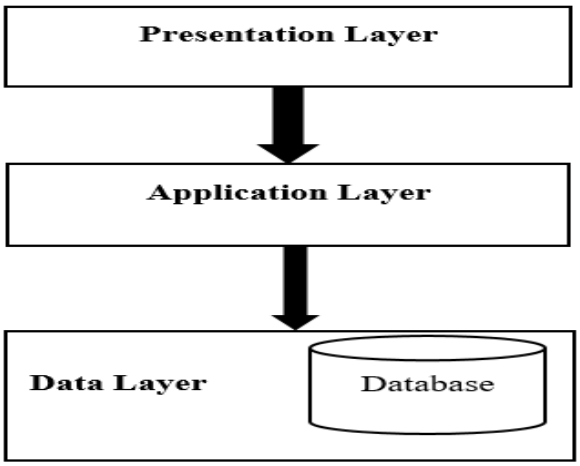

Figure 6: Three-Tier Architecture

Client layer: It contains user interface part of application. This layer communicates with other through Application Program Interface calls. HTML, CSS, & JavaScript are used in this layer.

Application layer: In this layer all business logic written like validation of data, calculations, data insertion etc. This acts as an interface between user tier and database tier for faster communication. PHP is used in this layer [8].

Database layer: In this layer actual database is comes in the picture. It helps to connect with database and to perform insert, update, delete, get data from database based on user input data. These data are kept independent of application layer. MYSQL & PHP are used in this layer [8].

Following are the reasons behind choosing three tier-architecture:

- It makes the logical separation among three different layers.
- It makes the maintenance process easier.
- It makes us easier to update one tier without involving other.

3.2.3.Database Schema Design

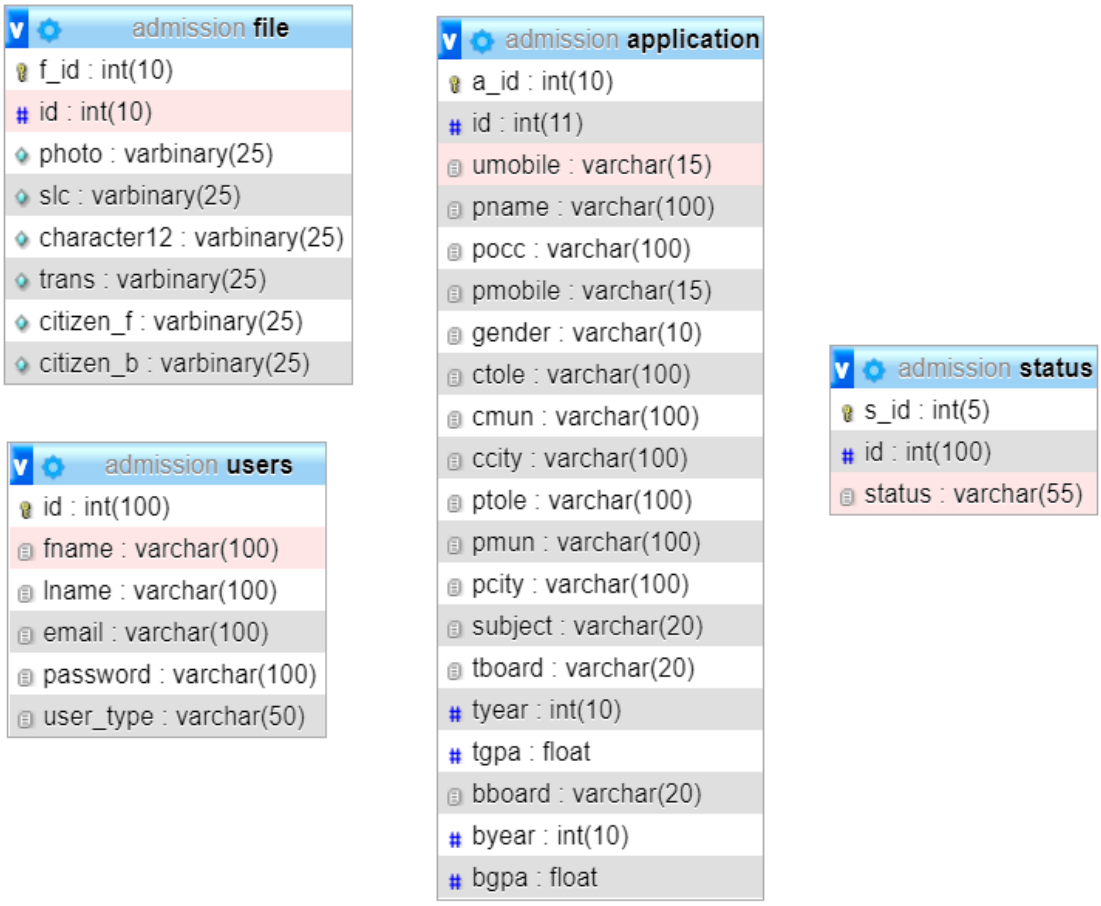

Figure 7: SAMS Schema Design

This is system generated database schema. It shows that we have database name as admission with schemas users, application, file and status which store different data of applicant as provided by the applicant.

3.2.4. Flow Charts

The working mechanism of the system is explained below with the help of system flow chart. In this system there are two modules namely student module & admin module. In student module we can simply create an account and login to fill the form and upload the documents which is stored in student database and after successful submission of document we can print the application report. To know about the status of application report we will get a mail from system. Similarly, in admin module, we can simply view the application report and evaluate them with the help of data provided and accept or reject the application through the mail.

Student Module Flow-Chart

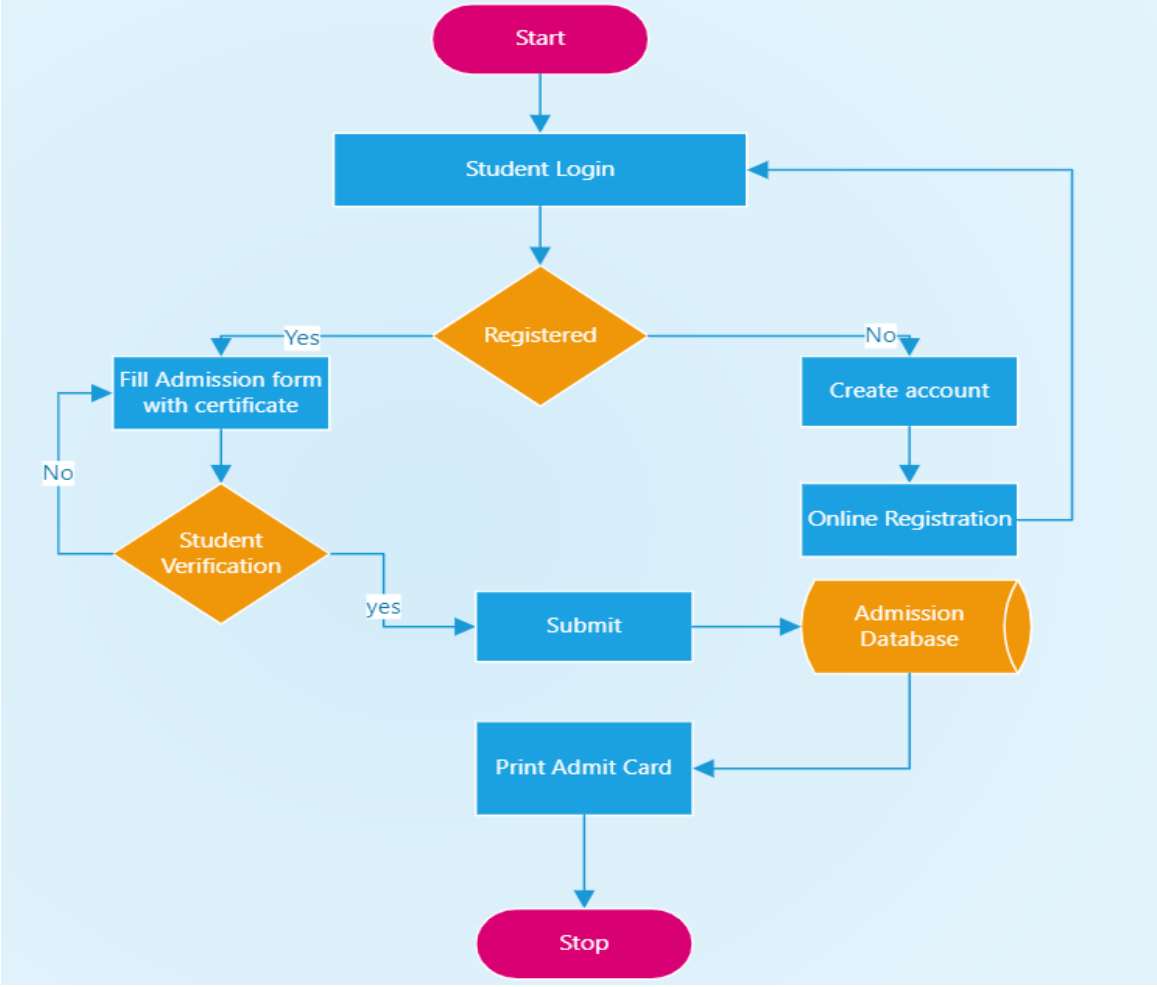

Figure 8: Student Login / Admission Flowchart

Admin Module Flowchart

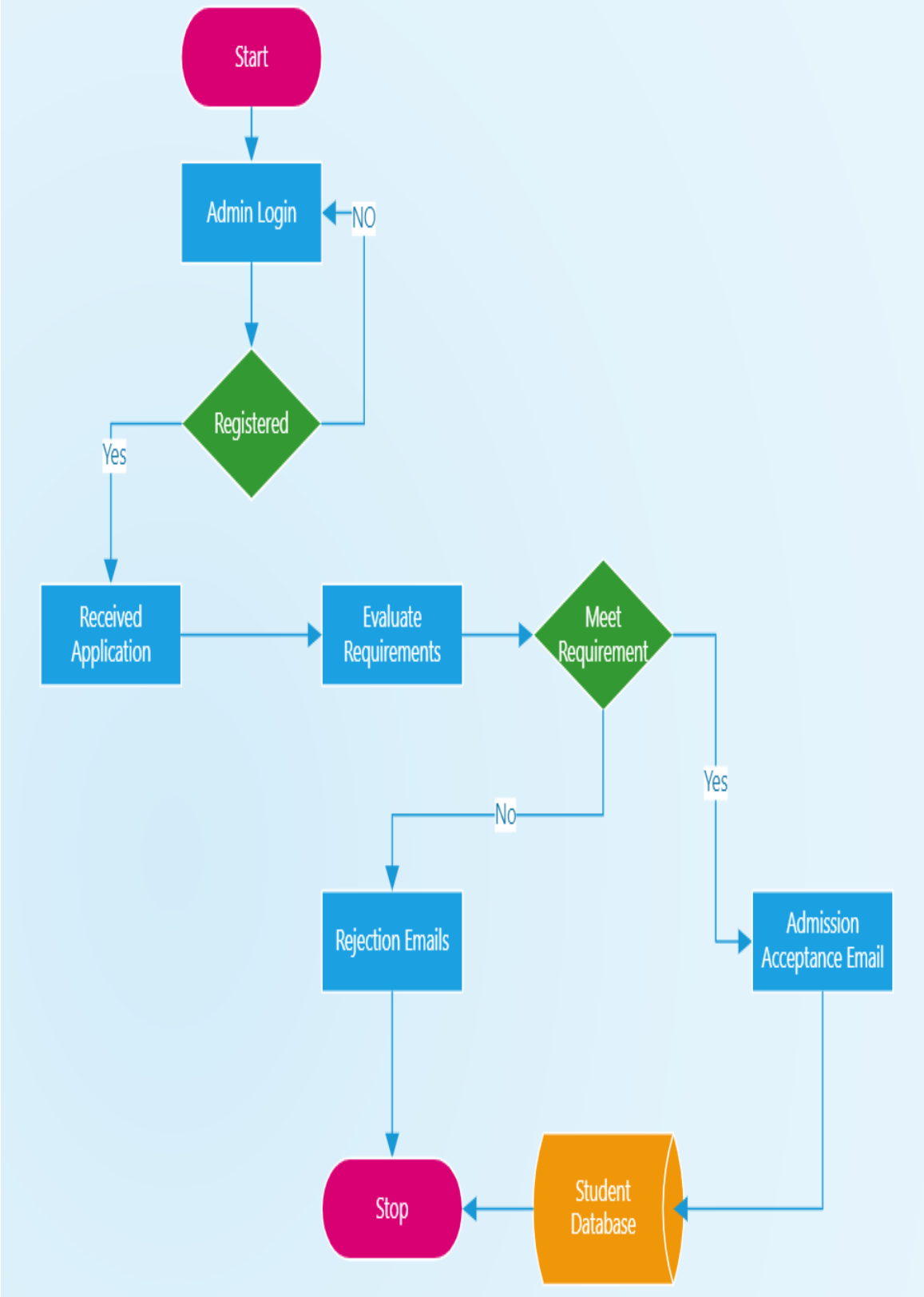

Figure 9: Admin Module Flow Chart

3.2.5. Activity Diagram

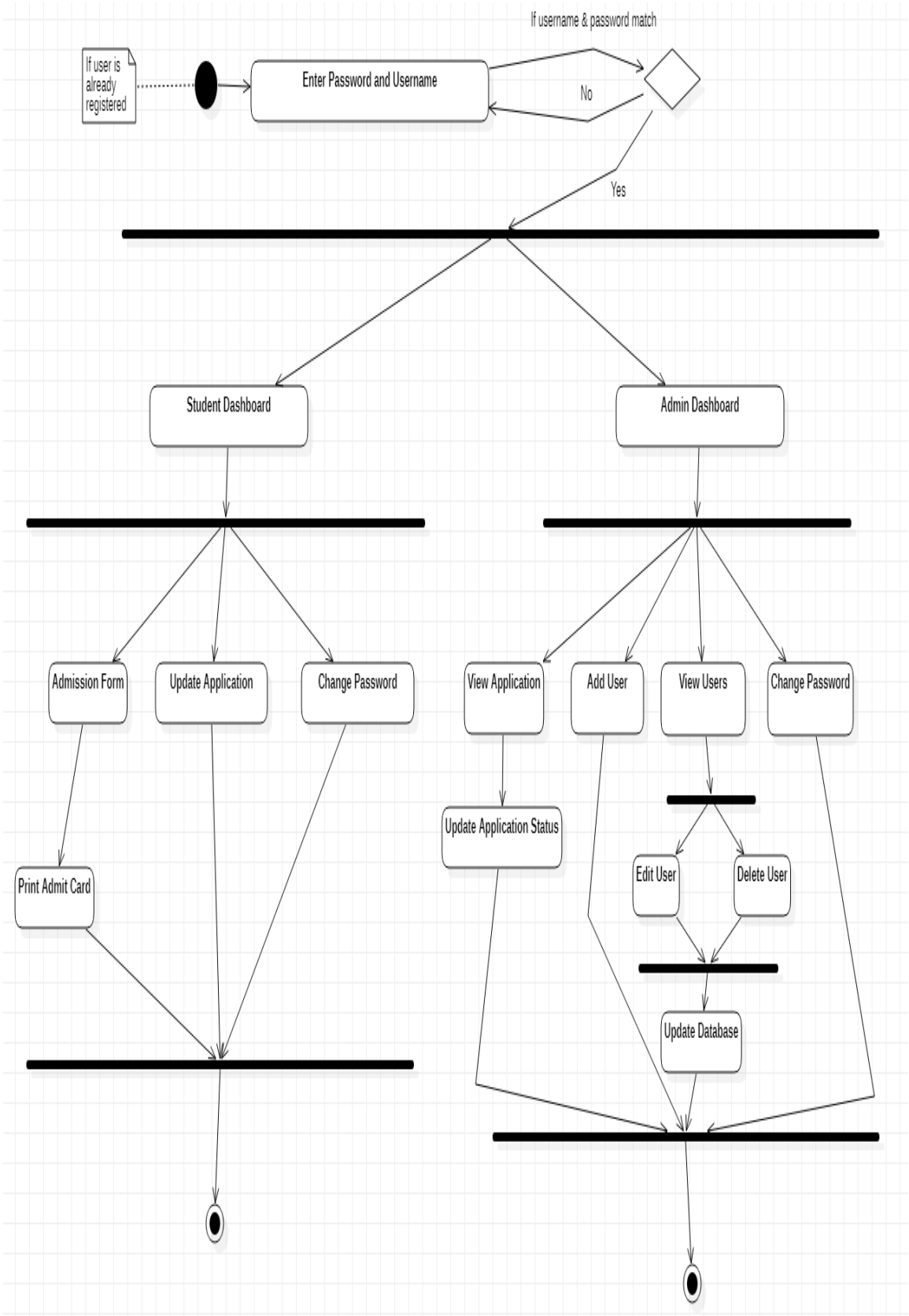

Figure 10: SAMS System Activity Diagram

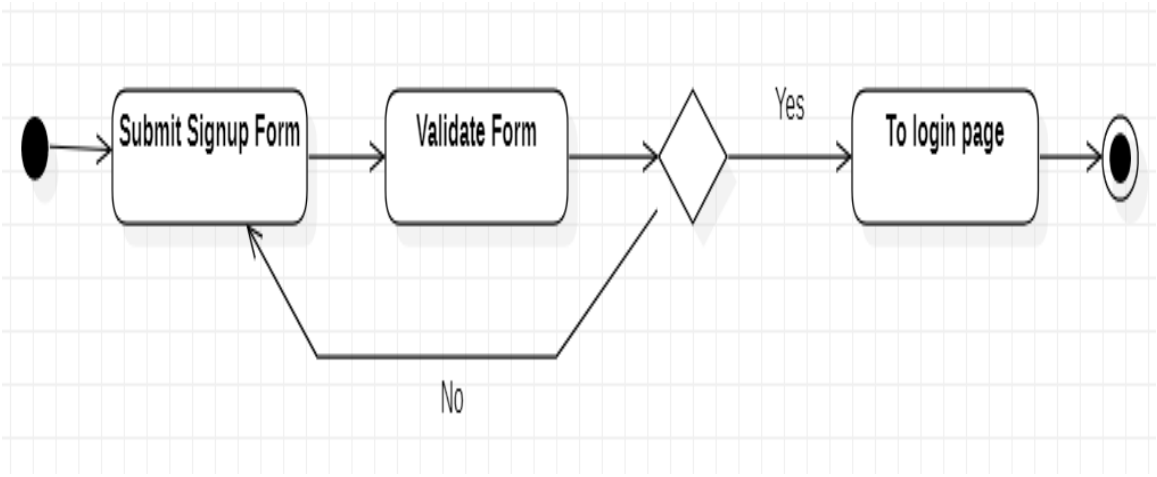

Figure 11: SAMS Signup Activity Diagram

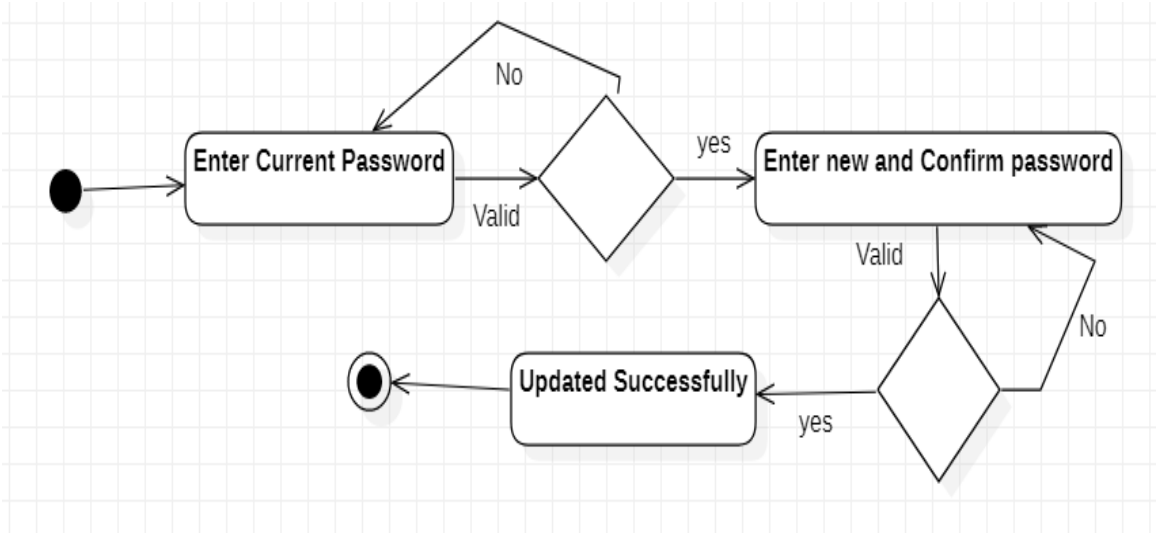

Figure 12: Activity Diagram for Change Password

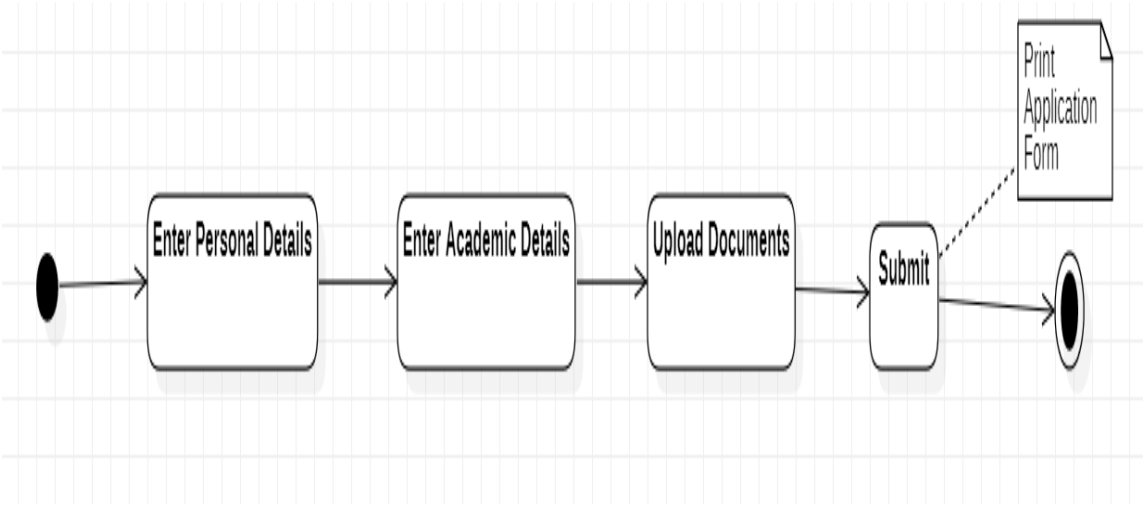

Figure 13: Activity Diagram for Application Fill-up

3.2.6. Interface Design

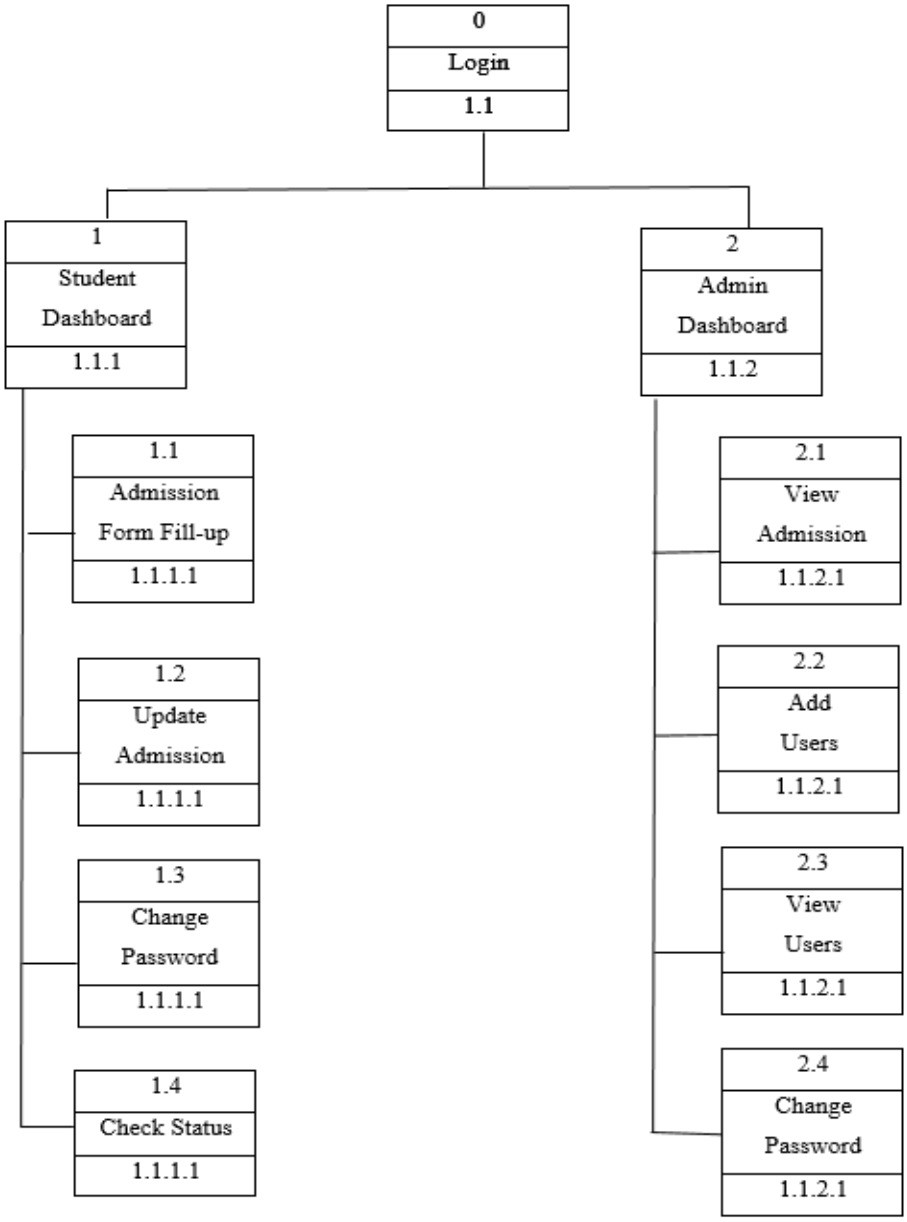

Figure 14: Interface Diagram for SAMS

According to this interface diagram, we can login to the system to visit either student dashboard or admin dashboard. When we are in user dashboard, we can navigate to admission form fill up page or update the admission form if applicant has already filled the form or we can change the password to login into the system.

Similarly, when we are in dashboard, we can navigate to view admission or view users or add user or change password page.

3.2.7. Physical DFD

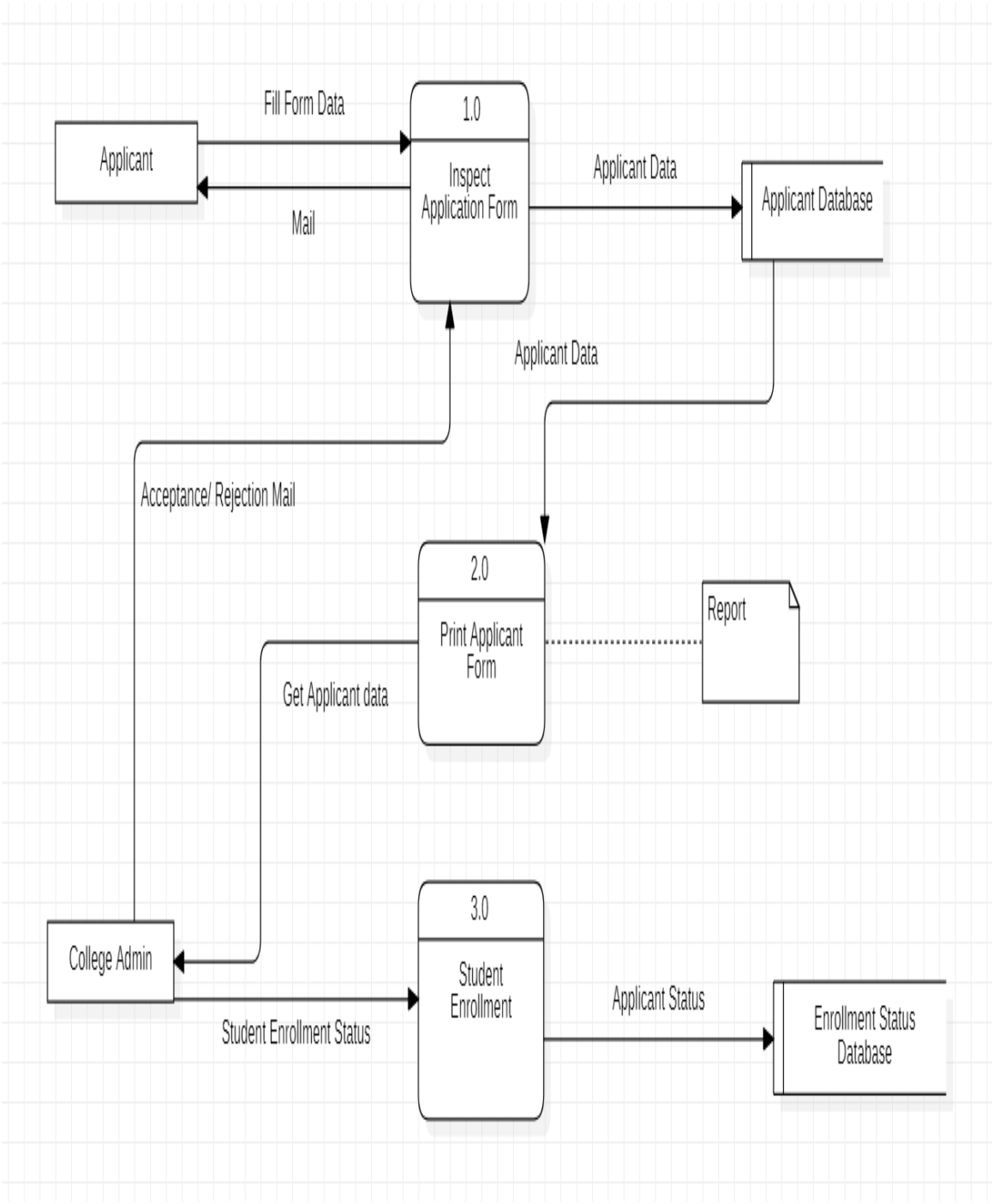

Figure 15: Level 1 DFD for SAMS

When applicant fill up the form the form data is inspect and stored in applicant database which is used to generate the report and print the application form. Similarly, college admin views applicant data and update the applicant enrollment status as accepted or rejected in enrollment database along with sending an email to the applicant.

Chapter 4: Implementation and Testing

4.1. Implementation

4.1.1. Tools Used

In this system, we used HTML, CSS, JavaScript, PHP and SQL queries to design and implement the system. HTML, CSS, JavaScript are used to design the front end of the system whereas PHP and SQL queries are used in backend of the project. This system is based on CRUD operation to insert applicant data into database, update the wrong input and also delete the unwanted data. We use XAMPP to access Apache and MySQL server to run this system in localhost. MySQL is the database platform used in this project. To design the system, we used different CASE tools such as Lucid Chart, Canva, MS Project, MS Visio, Star UML. Similarly, for the documentation of the project we used MS Word application.

4.2. Testing

For the testing of the system, we used different test cases for unit testing and system testing as follows:

Project Name: Student Admission Management System

Table 2: Test Case to verify invalid login

Test Case ID: 1 **Test Priority (Low/Medium/High):** High **Test Title:** Verify login with invalid username and password.	**Test Designed By:** Raja Ram Bhurtel **Test Designed Date:** 16th April, 2021

Pre-conditions: User has invalid username and password

Test Description	**Test Data**	**Expected Result**	**Actual Result**	**Status (Pass/Fail)**
Navigate to login page. Provide invalid username. Provide invalid password. Click login button.	Username: Sabin12 Password: 1234455	User should be not able to login.	User is navigated to dashboard with successful login.	Fail

Post-condition: User is navigated to dashboard with successfully login to account.

Table 3: Test case for valid login

Test Case ID: 2	**Test Designed By:** Raja Ram Bhurtel
Test Priority (Low/Medium/High): High	
Test Title: Verify login with valid username and password.	**Test Designed Date:** 17th April, 2021

Pre-conditions: User has valid username and password

Test Description	**Test Data**	**Expected Result**	**Actual Result**	**Status (Pass/Fail)**
Navigate to login page Provide valid username Provide valid password Click login button	Username: Sabin Password: 123456	User should be able to login.	User is navigated to dashboard with successful login	Pass

Post-condition: User is navigated to dashboard with successfully login to account.

Table 4: Test case to change password.

Test Case ID: 3	**Test Designed By:** Surakshya Bhattarai
Test Priority (Low/Medium/High): High	**Test Designed Date:** 16th April, 2021
Test Title: Change Password	

Pre-conditions: User has current password and is already logged in to the system.

Test Description	**Test Data**	**Expected Result**	**Actual Result**	**Status (Pass/Fail)**
Navigate to change password page. Provide valid password. Provide new password twice. Click change button.	Old Password: 123456 New Password:1234567 New Password Again: 1234567	User is able to able to change password.	New password is updated into database.	Pass

Post-condition: Password is changed successfully.

Table 5: Test case to sign up.

Test Case ID: 4	**Test Designed By:** Surakshya Bhattarai
Test Priority (Low/Medium/High): High	**Test Designed Date:** 16th April, 2021
Test Title: To create new user to the system.	

Pre-conditions: User has his data to fill up in form.

Test Description	**Test Data**	**Expected Result**	**Actual Result**	**Status (Pass/Fail)**
User is navigated to signup form page. Provide valid details. Click on update button.	First Name: Surakshya Last Name: Bhattarai Email: surakshyabhattarai2356@gmail.com Password: surak123 Confirm Password: surak123	User should be able create new account.	User is navigated to login page with successful account creation.	Pass

Post-condition: User new account is updated into database & user can now login to the system.

Table 6: Test case to fill application form

Test Case ID: 5	**Test Designed By:** Surakshya Bhattarai
Test Priority (Low/Medium/High): High	**Test Designed Date:** 16th April, 2021
Test Title: Fill Application Form	

Pre-conditions: User has his/her personal data to fill application form.

Test Description	**Test Data**	**Expected Result**	**Actual Result**	**Status (Pass/Fail)**
User is navigated to application form page. Provide valid details. Click on update button.	Provide details such as contact number, parents name, occupation, academic qualification and documents.	User should be able to fill the form.	User recorded details updated.	Pass

Post-condition: User records are updated successfully and navigated to print application form page.

Table 7: Test case to update wrong input.

Test Case ID: 6	**Test Designed By:** Raja Ram Bhurtel
Test Priority (Low/Medium/High): High	
Test Title: Verify if user wrong data can be edited.	**Test Designed Date:** 16th April, 2021

Pre-conditions: User has already filled up application page.

Test Description	**Test Data**	**Expected Result**	**Actual Result**	**Status (Pass/Fail)**
User is navigated to update application page. Provide all the updated data. Click on update button.	Provide new updated data and fill the form.	User should be able update new data.	User's new data is added to the database.	Pass

Post-condition: User data is edited successfully.

Table 8: Test case to check auto mail.

Test Case ID: 7	**Test Designed By:** Raja Ram Bhurtel
Test Priority (Low/Medium/High): High	
Test Title: Verify if acceptance/ rejection mail is working.	**Test Designed Date:** 17th April, 2021

Pre-conditions: Admin can view admission details and accept/ reject accordingly.

Test Description	**Test Data**	**Expected Result**	**Actual Result**	**Status (Pass/Fail)**
Admin is navigated to view admission page. Click on accept button.		User should receive an admission confirmation mail.	User got a confirmation mail from the system.	Pass

Post-condition:
User got admission confirmation from college.

Table 9: Test case to verify logout.

Test Case ID: 8	**Test Designed By:** Surakshya Bhattarai
Test Priority (Low/Medium/High): High	**Test Designed Date:** 17th April, 2021
Test Title: Verify logout	

Pre-conditions: User is already logged in to the system.

Test Description	**Test Data**	**Expected Result**	**Actual Result**	**Status (Pass/Fail)**
Click on logout button.		User should be able to logout.	User is navigated to login page.	Pass

Post-condition:
User is able to logout.

Chapter 5: Conclusion and Future Recommendations

5.1. Lesson Learnt / Outcome

During this course of project implementation, we learned to implement HTML, CSS, JavaScript, PHP & SQL queries to create a runnable system that is based on CRUD operation of database. Similarly, we learned to use different CASE tools for planning, analysis and designing the system. After several weeks of planning, analysis, design, coding, documentation, implementation & testing we created a working system for student admission.

5.2. Conclusion

Hence, after the completion of this project we created a working student admission system which will now computerize the former paper-based admission system. This system now provides the admission seeking candidate a faster way to fill and submit the form [1]. College can now easily maintain the records of the admission seeking candidate without investing the much effort in paperwork.

5.3. Future Recommendations

This student admission system which was developed is effective in a way that it will automate and make online admission instead of manual. Yet some areas in this project are not explored in detail due to time constraint. Some of them are given below as future recommendations:

1. The payment system can be introduced by using the original merchant account for credit card holders.

2. The admission system security in login can be increased by using CAPTCHA.

3. The graphical view of the total number of admissions can be introduced in the system in future.

Appendices

Source Code Snap Shot

Login Code

login.php

```php
<?php
include('functions.php')
?>
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Login</title>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
    <section>
        <div class="imgBx">
            <img src="images/adm.jpg">
        </div>
        <div class="contentBx">
            <div class="formBx">
                <h2>Login</h2>
                <form method="post" action="#">
                    <?php echo display_error(); ?>
                    <div class="inputBx">
                        <span>Username</span>
                        <input type="text" name="username">
                    </div>
                    <div class="inputBx">
                        <span>Password</span>
                        <input type="password" name="password">
                    </div>
                    <div class="inputBx">
                        <input type="submit" value="Log In" name="login">
                    </div>
                    <div class="inputBx">
                        <p>Don't have an account? <a href="register.php"> Sign Up</a></p>
                    </div>
                </form>

            </div>
        </div>
    </section>
```

Register Code

register.php

```php
<?php include('functions.php') ?>

<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Login</title>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
    <section>
        <div class="imgBx">
            <img src="images/sign.jpg">
        </div>
        <div class="contentBx">
            <div class="formBx">
                <h2>Sign Up</h2>
                <form method="post" action="#">
                    <?php echo display_error(); ?>
                    <div class="inputBx">
                        <span>Your First Name</span>
                        <input type="text" name="username" value="<?php echo $username; ?>">
                    </div>
                    <div class="inputBx">
                        <span>Your Last Name</span>
                        <input type="text" name="lastname">
                    </div>
                    <div class="inputBx">
                        <span>Email</span>
                        <input type="email" name="email" value="<?php echo $email; ?>">
                    </div>
                    <div class="inputBx">
                        <span> New Password</span>
                        <input type="password" name="pw1">
                    </div>
                    <div class="inputBx">
                        <span> Confirm Password</span>
                        <input type="password" name="pw2">
                    </div>
                    <div class="inputBx">
                        <input type="submit" value="Sign Up" name="register">
                    </div>
                    <div class="inputBx">
                        <p>Already have an account? <a href="login.php"> Log In</a></p>
                    </div>
                </form>
```

Admission Form

admission1.php

```
</div>
<form id="adform" action="functions.php" method="post">
<table class="frmtbl" cellpadding="2" cellspacing="10">
<tr border="1" class="hdrow" >
</tr>
<tr>
<td class="input-group"> <font style="font-family: Verdana;">Student's Mobile No.</font>  </td>
<td colspan="3" class="input-group">
<input type="text" id="uphn2" name="smob" placeholder="Mobile Number" required="true" ></td>
</tr>

<tr>
<td><font style="font-family: Verdana;"> Parents's Name</font></td>
<td class="input-group" colspan="3"> <input type="text" id="name" name="pname" required="true" VT="NM"> </td>
</tr>

<tr>
<td> <font style="font-family: Verdana;">Parents's Occupation</font></td>
<td class="input-group"> <input type="text" id="pocc" name="pocc" required="true" > </td>
</tr>
<tr>
<td><font style="font-family: Verdana;">Parent's Mobile No.</font></td>
<td class="input-group"> <input type="text" id="ufphn" name="pmbl" required="true" > </td>
</tr>


<tr>
<td> <font style="font-family: Verdana;">Sex </font>
<td id="user_type1"><input type="radio" id="gen" name="gen" value="Male"><font style="font-family: Verdana;">Male</font>
<input type="radio" id="gen" name="gen" value="Female"><font style="font-family: Verdana;">Female </font></td>

</tr>

<tr>
<td><font style="font-family: Verdana;"> Correspondent Address</font>
<td class="input-group" colspan="3"><input type="text" id="ctl1" name="ctl" class="ad" placeholder="Tole" required="true"><br>
<input type="text" id="cast" name="cmp" class="ad" placeholder="Municipality" style="margin-top: 4px;" required="true"><br>

<input type="text" id="camob" name="cct" class="ad" placeholder="City" style="margin-top: 4px;" required="true"><br>
</td>

<tr>
<td> <font style="font-family: Verdana;">Permanent Address</font>
<td class="input-group" colspan="3"><input type="text" id="ptl1" name="ptl" placeholder="Tole" class="ad" required="true"><br>
<input type="text" id="past" name="pmun" class="ad" placeholder="Municipality" style="margin-top: 4px;" required="true"><br>

<input type="text" id="pamob" name="pct" class="ad" placeholder="City" style="margin-top: 4px;" required="true"><br>
</td>
</tr>
</tbody>
</table>
```

admission2.php

```
</div>
<form id="adform" action="#" method="post">
<table class="frmtbl" cellpadding="2" cellspacing="10">

<tr border="1" class="hdrow" >

</tr>
<tr>
<td><font style="font-family: Verdana;">Choice of Subject</font></td>
<td class="input-group"><select  name="sub" >
<option>Select</option>
<option value="+2(Science)">+2(Science)</option>
<option value="+2(Management)">+2(Management)</option>
<option value="BCA">BCA</option>
<option value="BBS">BBS</option>
<option value="BSW">BSW</option>

</select>
</td>
</tr>
<tr>
<td><font style="font-family: Verdana;">Academic Qualification</font></td>
<td colspan="3">
<table class="table table-hover">
<thead>
<tr>
<th ><font style="font-family: Verdana;font-size: small">Exam</font> <br><font style="font-family: Verdana; font-size: small">passed</font></th>
<th><font style="font-family: Verdana;font-size: small">Name of</font> <br><font style="font-family: Verdana;font-size: small">Board/University</font>
</th>
<th><font style="font-family: Verdana;font-size: small">Year of</font> <br><font style="font-family: Verdana;font-size: small"> Passing</font></th>


<th><font style="font-family: Verdana;font-size: small">GPA</font></th>
</tr>
</thead>
<tbody>
<tr>
<td ><?php echo "10th"; ?></td>
<td class="input-group"><input type="text" id="nob1" name="b1" required="true"></td>
<td class="input-group"><input type="text" id="yop1" name="y1" class="actab" required="true"></td>
<td class="input-group"><input type="text" id="tm1" name="g1" class="actab" required="true"></td>

</tr>
<tr>
<td><?php echo "12th/Diploma"; ?> </td>
<td class="input-group"><input type="text" id="nob2" name="b2" required="true"></td>
<td class="input-group"><input type="text" id="yop2" name="y2" class="actab" required="true"></td>
<td class="input-group"><input type="text" id="tm2" name="g2" class="actab" required="true"></td>

</tr>

</tbody>
</table>
<tr>
<td colspan="4">
```

admission3.php

```
    <body >
          <div class="header">
        <h2>Documents Upload</h2>
         <h5>Each File Name must contains applicant name*</h5>
    </div>
        <form id="adform" action="#" method="post" enctype="multipart/form-data">
<table class="frmtbl" cellpadding="2" cellspacing="10">

              <tr border="1" class="hdrow" >

               </tr>  <tr>
                  <td><font style="font-family: Verdana;">Student Photo</font></td>
                  <td class="input-group">
                    <input type="file" name="photo">
                   </td>
                </tr>

                <tr>
                     <td><font style="font-family: Verdana;">SLC Chatacter</font></td>
                     <td class="input-group">
                       <input type="file" name="slc">
                      </td>
                </tr>

                <tr>
                     <td><font style="font-family: Verdana;">+2 Character</font></td>
                     <td class="input-group">
                       <input type="file" name="c2">
                      </td>
                </tr>

                <tr>
                     <td><font style="font-family: Verdana;">+2 Transcript</font></td>
                     <td class="input-group">
                       <input type="file" name="t2">
                      </td>
                </tr>

                <tr>
                     <td><font style="font-family: Verdana;">Citizenship Front</font></td>
                     <td class="input-group">
                       <input type="file" name="cf">
                      </td>
                </tr>
                <tr>
                     <td><font style="font-family: Verdana;">Citizenship Back</font></td>
                     <td class="input-group">
                       <input type="file" name="cb">
                      </td>
                </tr>
          </tbody>
                      </table>
<tr>
                              <td colspan="4">
                                 <center >        <div class="input-group">
            <button type="submit" class="btn" name="add3">Upload</button>
```

Update Record

update.php

```php
<?php

include('functions.php');
//check if user is login or not
  if (!isLoggedIn()) {
  $_SESSION['msg'] = "You must log in first";
  header('location: login.php');
}

if (isset($_GET['logout'])) {
  session_destroy();
  unset($_SESSION['user']);
  header("location: ../login.php");
}
//code for editing
    $id = $_SESSION['user']['id'];
    $update = true;
    $record1 = mysqli_query($db, "SELECT * FROM users WHERE id=$id");
    $record2 = mysqli_query($db, "SELECT * FROM application WHERE id=$id");

    if (mysqli_num_rows($record1) == 1 ) {
      $n = mysqli_fetch_array($record1);
      $fname = $n['fname'];
      $lname = $n['lname'];
      $email = $n['email'];
      // $password = $n['password'];
    }
    if (mysqli_num_rows($record2) == 1 ) {
      $n = mysqli_fetch_array($record2);
      $snum = $n['umobile'];
      $pname = $n['pname'];
      $pocc =$n['pocc'];
      $pmob = $n['pmobile'];
      $gn = $n['gender'];
      $ctol = $n['ctole'];
      $cmun = $n['cmun'];
      $ccity = $n['ccity'];
      $ptole = $n['ptole'];
      $pmun = $n['pmun'];
      $pcity = $n['pcity'];
      $sub = $n['subject'];
      $tb = $n['tboard'];
      $ty = $n['tyear'];
      $tg = $n['tgpa'];
      $bb = $n['bboard'];
      $by = $n['byear'];
      $bg = $n['bgpa'];
      // $password = $n['password'];
    }

?>
<html>
<head>
  <title>Update PHP MySQL</title>
  <link rel="stylesheet" type="text/css" href="style1.css">
</head>
```

update.php

```
61          <h2>Update Details</h2>
62      </div>
63          <form id="adform" action="update2.php" method="post">
64        <table class="frmtbl" cellpadding="2" cellspacing="10">
65
66                    <tr border="1" class="hdrow" >
67
68                     </tr>
69                     <div class="input-group">
70
71        <input type="hidden" name="id" value="<?php echo $id; ?>">
72      </div>
73                     <tr>
74                        <td><font style="font-family: Verdana;"> First Name</font></td>
75                        <td class="input-group" colspan="3"> <input type="text" id="fname" name="fname" value="<?php echo $fname; ?>"> </td>
76                      </tr>
77                      <tr>
78                        <td><font style="font-family: Verdana;"> Last Name</font></td>
79                        <td class="input-group" colspan="3"> <input type="text" id="lname" name="lname" value="<?php echo $lname; ?>"> </td>
80                       </tr>
81                     <tr>
82                        <td><font style="font-family: Verdana;"> Email</font></td>
83                        <td class="input-group" colspan="3"> <input type="text" id="ufname" name="email" value="<?php echo $email; ?>"> </td>
84                     </tr>
85
86                      <tr>
87                        <td class="input-group"> <font style="font-family: Verdana;">Student's Mobile No.</font>  </td>
88                        <td colspan="3" class="input-group">
89                        <input type="text" id="uphn2" name="smob" value="<?php echo $snum; ?>" ></td>
90                      </tr>
91
92                      <tr>
93                        <td><font style="font-family: Verdana;"> Parents's Name</font></td>
94                        <td class="input-group" colspan="3"> <input type="text" id="name" name="pname" value="<?php echo $pname; ?>"> </td>
95                       </tr>
96
97                      <tr>
98                        <td> <font style="font-family: Verdana;">Parents's Occupation</font></td>
99                        <td class="input-group"> <input type="text" id="pocc" name="pocc" value="<?php echo $pocc; ?>" > </td>
100                     </tr>
101                     <tr>
102                       <td><font style="font-family: Verdana;">Parent's Mobile No.</font></td>
103                       <td class="input-group"> <input type="text" id="ufphn" name="pmbl" value="<?php echo $pmob; ?>" > </td>
104                     </tr><tr>
105                       <td> <font style="font-family: Verdana;">Gender </font>
106                       <td id="user_type1"><input type="radio" id="gen" name="gen" value="Male"><font style="font-family: Verdana;">Male</font>
107                        <input type="radio" id="gen" name="gen" value="Female"><font style="font-family: Verdana;">Female </font></td>
108
109                   </tr><tr>
110                       <td><font style="font-family: Verdana;"> Correspondent Address</font>
111                       <td class="input-group" colspan="3"><input type="text" id="ct11" name="ct1" class="ad" value="<?php echo $cto1; ?>"><br>
112                             <input type="text" id="cast" name="cmp" class="ad" value="<?php echo $cmun; ?>"><br>
113
114                             <input type="text" id="camob" name="cct" class="ad" value="<?php echo $ccity; ?>"><br>
115                   </td><tr>
116                       <td> <font style="font-family: Verdana;">Permanent Address</font>
```

update.php

```
114                   <input type="text" id="camob" name="cct" class="ad" value="<?php echo $ccity; ?>"><br>
115               </td><tr>
116                   <td> <font style="font-family: Verdana;">Permanent Address</font>
117                   <td class="input-group" colspan="3"><input type="text" id="pt11" name="pt1" value="<?php echo $ptole; ?>"><br>
118                         <input type="text" id="past" name="pmun" class="ad" value="<?php echo $pmun; ?>"><br>
119
120                         <input type="text" id="pamob" name="pct" class="ad" value="<?php echo $pcity; ?>"><br>
121                   </td>
122               </tr>  <tr>
123                   <td><font style="font-family: Verdana;">Choice of Subject</font></td>
124                   <td class="input-group"><select  name="sub" >
125                       <option>Select</option>
126                       <option value="+2(Science)">+2(Science)</option>
127                       <option value="+2(Management)">+2(Management)</option>
128                       <option value="BCA">BCA</option>
129                       <option value="BBS">BBS</option>
130                       <option value="BSW">BSW</option>
131
132                       </select>
133                   </td>
134               </tr><tr>
135                  <td><font style="font-family: Verdana;">Academic Qualification</font></td>
136                  <td colspan="3">
137                      <table class="table table-hover">
138                        <thead>
139                          <tr>
140                              <th ><font style="font-family: Verdana;font-size: small">Exam</font> <br><font style="font-family: Verdana; font-size: small">passed</font></th>
141                              <th><font style="font-family: Verdana;font-size: small">Name of</font> <br><font style="font-family: Verdana;font-size: small">Board/University</font>
                                 </th>
142                              <th><font style="font-family: Verdana;font-size: small">Year of</font> <br><font style="font-family: Verdana;font-size: small"> Passing</font></th>
143
144
145                              <th><font style="font-family: Verdana;font-size: small">GPA</font></th>
146
147                          </tr>
148                        </thead>
149                         <tbody>
150                        <tr>
151                            <td ><?php /*echo "10th";*/ ?></td>
152                            <td class="input-group"><input type="text" id="nob1" name="b1" value="<?php echo $tb; ?>"></td>
153                            <td class="input-group"><input type="text" id="yop1" name="y1" class="actab" value="<?php echo $ty; ?>"></td>
154                            <td class="input-group"><input type="text" id="tm1" name="g1" class="actab" value="<?php echo $tg; ?>"></td>
155
156                        </tr>
157                        <tr>
158                            <td><?php /*echo "12th/Diploma"*/; ?> </td>
159                            <td class="input-group"><input type="text" id="nob2" name="b2" value="<?php echo $bb; ?>"></td>
160                            <td class="input-group"><input type="text" id="yop2" name="y2" class="actab" value="<?php echo $by; ?>"></td>
161                            <td class="input-group"><input type="text" id="tm2" name="g2" class="actab" value="<?php echo $bg; ?>"></td>
162
163                        </tr>
164
165                         </tbody>
166                     </table>
167
```

Admin View Admission

view.php

```php
<?php
include('../functions.php');

if (!isAdmin()) {
    $_SESSION['msg'] = "You must log in first";
    header('location: ../login.php');
}

if (isset($_GET['logout'])) {
    session_destroy();
    unset($_SESSION['user']);
    header("location: ../login.php");
}

?>
<html>
<head>
    <title>View Admission Details</title>
    <link rel="stylesheet" type="text/css" href="style2.css">
</head>
<body>
     <?php include('head.php'); ?>
    <?php if (isset($_SESSION['message'])): ?>
    <div class="msg">
        <?php
            echo $_SESSION['message'];
            unset($_SESSION['message']);
        ?>
    </div>
<?php endif ?>

<?php $result1 = mysqli_query($db, "SELECT * FROM application"); ?>

<table>
    <thead>
        <tr>
            <th>First Name</th>
            <th>Last Name</th>
            <th>Email</th>
            <th colspan="2">Action</th>
        </tr>
    </thead>

    <?php
     while ($row1 = mysqli_fetch_array($result1)) { ?>
        <?php $id = $row1['id']; ?>
        <?php $results = mysqli_query($db, "SELECT * FROM users Where user_type='user' and id=$id"); ?>
        <?php
            while ($row = mysqli_fetch_array($results)) { ?>
                <tr>
                    <td><?php echo $row['fname']; ?></td>
                    <td><?php echo $row['lname']; ?></td>
                    <td><?php echo $row['email']; ?></td>
```

```php
                    <td id="dis">
                        <a href="accept1.php?id=<?php echo $row['id']; ?>" class="edit_btn" id="btnid"  >Accept</a>
                    </td>
                    <td>
                        <a href="rejected.php?id=<?php echo $row['id']; ?>" class="del_btn">Reject</a>
                    </td>
                </tr>
    <?php } ?>
    <?php } ?>
</table>


</body>
</html>
```

Acceptance Mail Sending Code

```php
use PHPMailer\PHPMailer\PHPMailer;
use PHPMailer\PHPMailer\Exception;
require 'C:\xampp\htdocs\email\vendor\autoload.php';
$mail = new PHPMailer(TRUE);
try {

    $mail->setFrom('sabinbhurtel@gmail.com', 'System');
    $mail->addAddress($email, 'Applicant');

    $mail->Subject = 'Application Accepted';
    $mail->Body = 'Dear '.$fname.',

          Your application has been accepted to join ABC College.';

    /* SMTP parameters. */

    /* Tells PHPMailer to use SMTP. */
    $mail->isSMTP();

    /* SMTP server address. */
    $mail->Host = 'smtp.elasticemail.com';

    /* Use SMTP authentication. */
    $mail->SMTPAuth = TRUE;

    /* Set the encryption system. */
    $mail->SMTPSecure = 'tls';

    /* SMTP authentication username. */
    $mail->Username = 'sabinbhurtel@gmail.com';

    /* SMTP authentication password. */
    $mail->Password = [redacted]386096945A692FEEA6FA8CA867';

    /* Set the SMTP port. */
    $mail->Port = 587;

    /* Finally send the mail. */

    if ($mail->send()) {
        $sql = mysqli_query($db, "UPDATE status Set status='Accepted' WHERE id = $id");
    }
    header('location:view.php');
}
```

Edit Users

edit.php

```php
<?php
include('../functions.php');

if (!isAdmin()) {
    $_SESSION['msg'] = "You must log in first";
    header('location: ../login.php');
}
if (isset($_GET['logout'])) {
    session_destroy();
    unset($_SESSION['user']);
    header("location: ../login.php");
}
?>
<html>
<head>
    <title>Update, Delete PHP MySQL</title>
    <link rel="stylesheet" type="text/css" href="style2.css">
</head>
<body>
     <?php include('head.php'); ?>
    <?php if (isset($_SESSION['message'])): ?>
    <div class="msg">
        <?php
            echo $_SESSION['message'];
            unset($_SESSION['message']);
        ?>
    </div>
<?php endif ?>
<?php $results = mysqli_query($db, "SELECT * FROM users"); ?>

<table>
    <thead>
        <tr>
            <th>First Name</th>
            <th>Last Name</th>
            <th>Email</th>
            <th colspan="2">Action</th>
        </tr>
    </thead>

    <?php while ($row = mysqli_fetch_array($results)) { ?>
        <tr>
            <td><?php echo $row['fname']; ?></td>
            <td><?php echo $row['lname']; ?></td>
            <td><?php echo $row['email']; ?></td>

            <td>
                <a href="edit2.php?edit=<?php echo $row['id']; ?>" class="edit_btn" >Edit</a>
            </td>
            <td>
                <a href="php_code.php?del=<?php echo $row['id']; ?>" class="del_btn">Delete</a>
            </td>
        </tr>
    <?php } ?>
</table>
```

Program Snap Shot

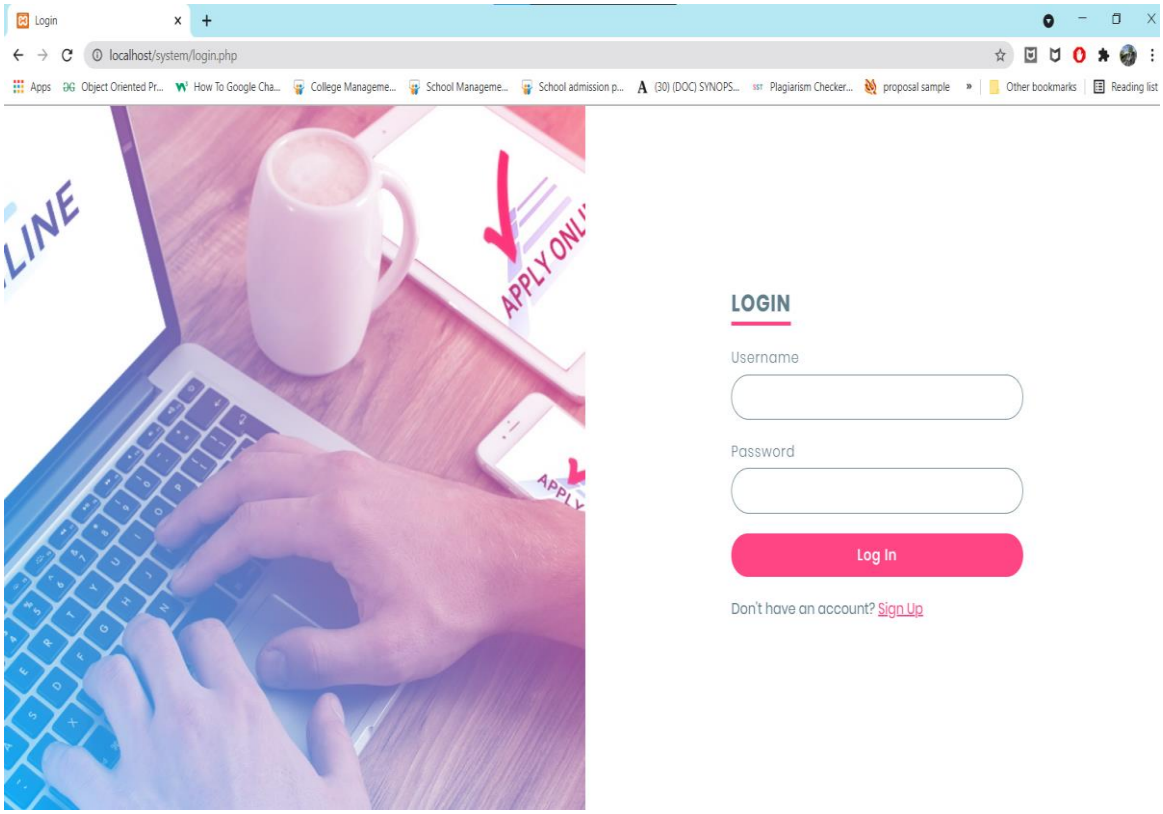

Figure 16: Login Page

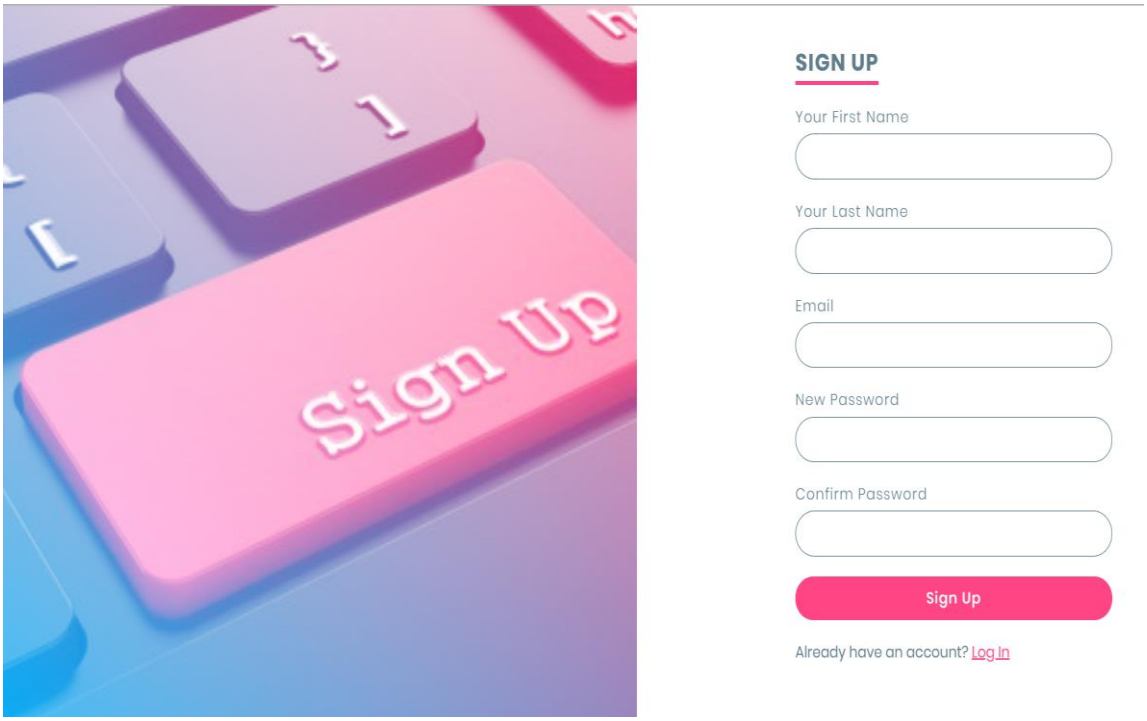

Figure 17: Signup Page

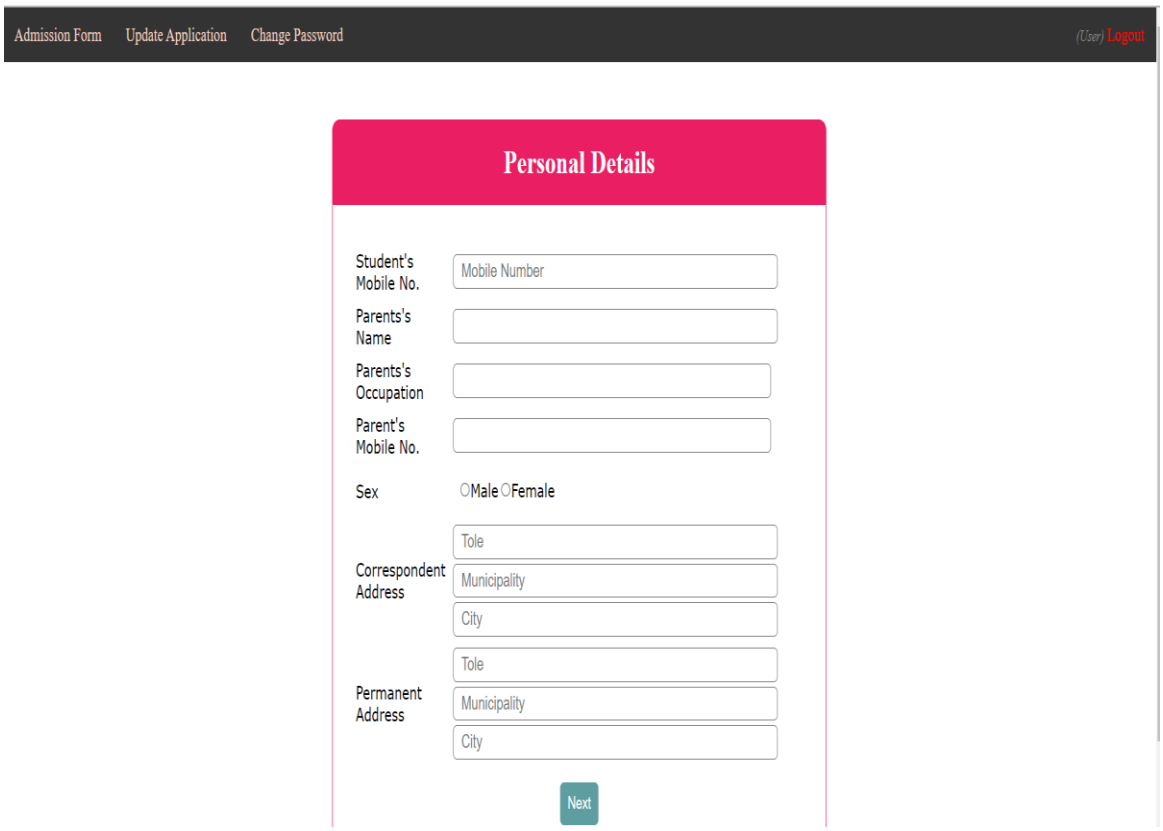

Figure 18: Application Form Page

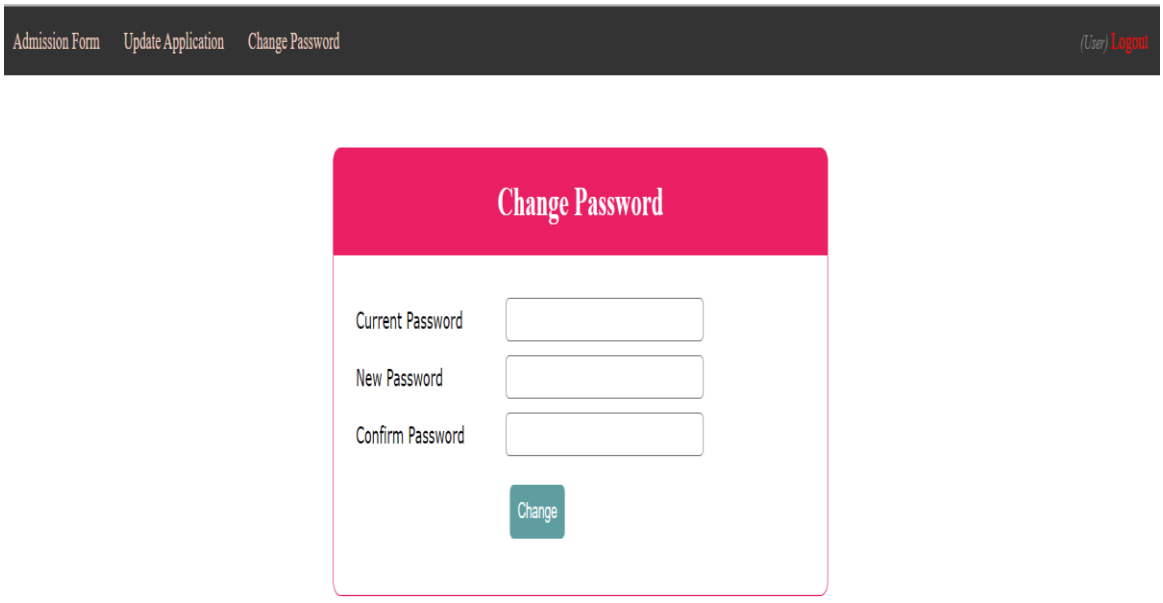

Figure 19: Change Password Page

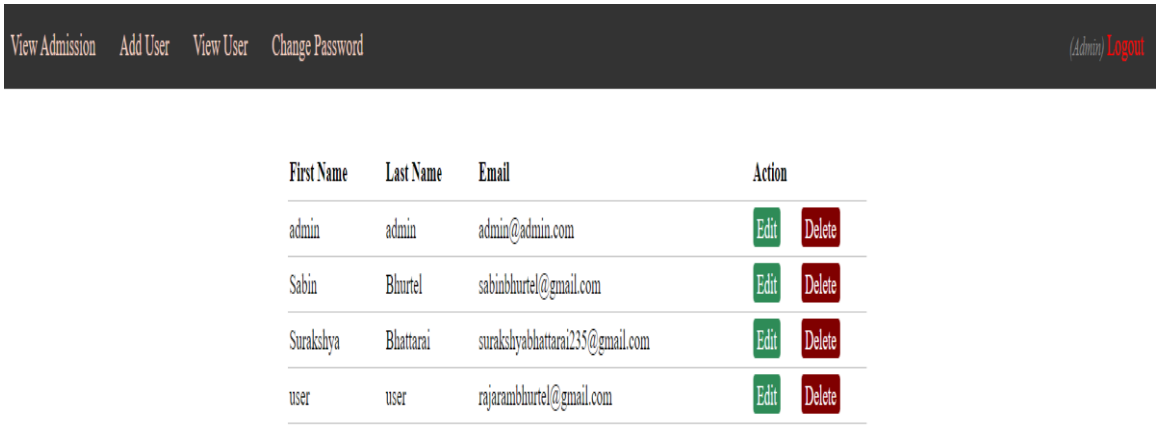

Figure 20: View User Page

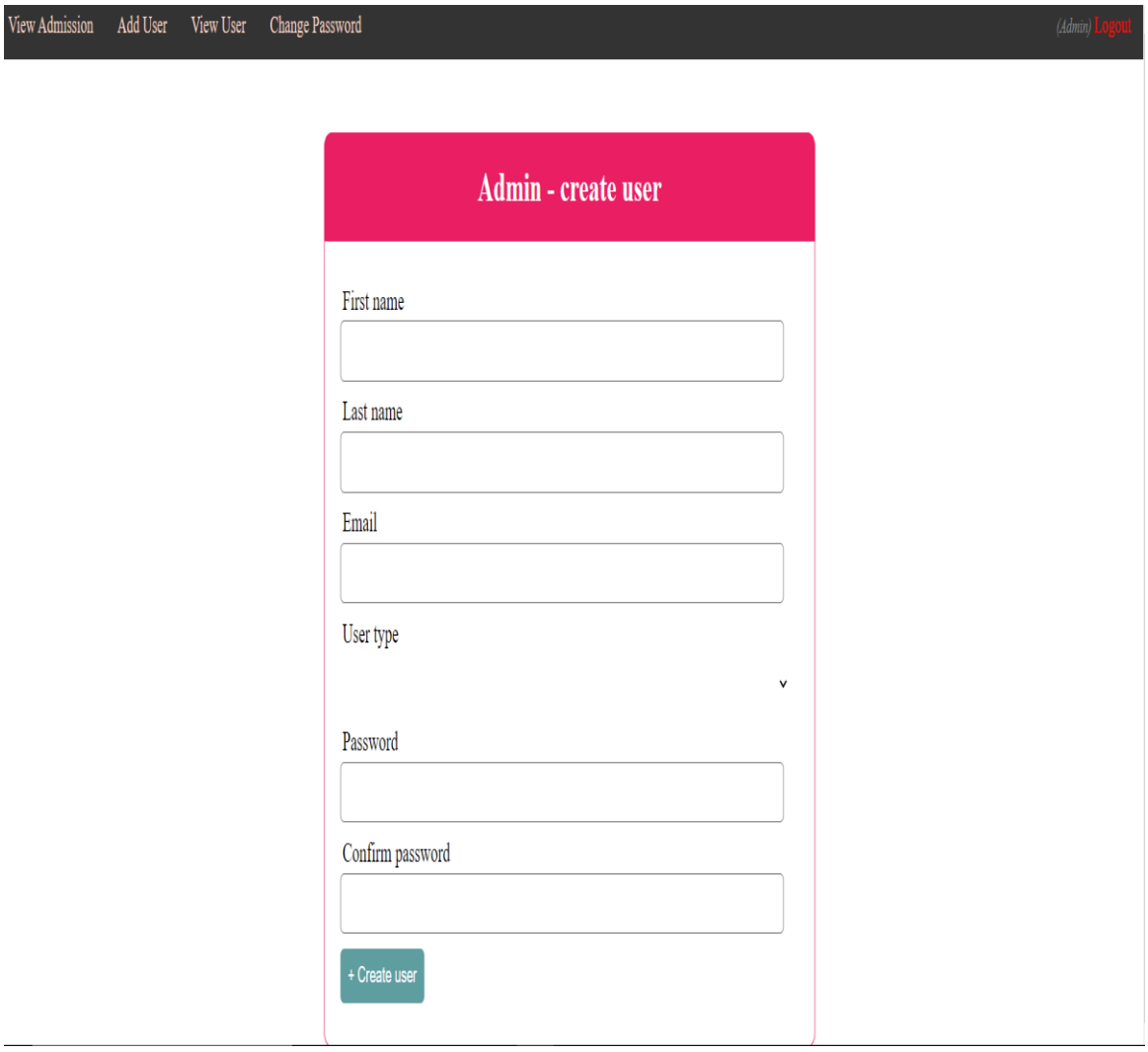

Figure 21: Create user page

ABC College of science and technology
Phone : 01-4310000, Email:abccollege@edu.com

ADMISSIONS (2077/78)

Application ID	2
Name	Sabin Bhurtel
Email	sabinbhurtel@gmail.com
Mobile No.	9843820746
Parent's Name	Rita Bhurtel
Parent's Occupation	Bussiness
Parent's Mobile No.	9808770040
Sex	Male
Correspondent Address	Tole :Nagdhunga Municiapality :Chandragiri City :Kathmandu
Permanent Address	Tole :Nagdhunga Municiapality :Chandragiri City :KTM
Choice of stream	BSW
Academic Qualification	

Exam passed	Name of Board/University	Year of Passing	GPA
10th	SLC	2017	3.6
12th/Diploma	NEB	2019	3.67

Status	Accepted

Print

Figure 22: View Admission Report

References

[1] J. Medak and P. Gogoi, "Design and Development of University Admission Management System", *Computerscijournal.org*, 2018. [Online]. Available: http://www.computerscijournal.org/?p=7751. [Accessed: 09- Feb- 2021].

[2] T. Qureshi, "Proposal on Online Admission Form", *Academia.edu*, 2011. [Online]. Available: https://www.academia.edu/10126899/Proposal_on_Online_Admission_Form. [Accessed: 13- Feb- 2021].

[3] "Information system - Wikipedia", *En.wikipedia.org*. [Online]. Available: https://en.wikipedia.org/wiki/Information_system. [Accessed: 13- Feb- 2021].

[4] "ADMISSION (noun) definition and synonyms | Macmillan Dictionary", *Macmillandictionary.com*. [Online]. Available: https://www.macmillandictionary.com/dictionary/british/admission. [Accessed: 13- Feb- 2021].

[5] "The Waterfall Model - a Software Development Process", *Linkedin.com*, 2019. [Online]. Available: https://www.linkedin.com/pulse/waterfall-model-introduced-70s-software-development-hani. [Accessed: 15- Feb- 2021].

[6] "WATERFALL MODEL / LINEAR-SEQUENTIAL MODEL | Software Engineering", *Coding tutorial*, 2021. [Online]. Available: https://vikramsomai.blogspot.com/2021/08/waterfall-model-linear-sequential-model.html. [Accessed: 15- Feb- 2021].

[7] "School Management School", *Slideshare.net*, 2016. [Online]. Available: https://www.slideshare.net/Hammadkhan62/school-manegment-school. [Accessed: 26- Feb- 2021].

[8] *Main problem of two tier architecture is the server. 2021, pp. 3 - 4.*

[9] "Online Admission System Research Paper", *Pdfgoal.com*, 2018. [Online]. Available: https://pdfgoal.com/downloads/online_admission_system_research_paper. [Accessed: 03- Mar- 2021].

[10] E. Shaikh, "Chapter 2.doc - CHAPTER 2 BACKGROUND 2 Overview This project emphasizes on Under Graduate Pre Entry Test Web Portal in Project Name Therefore we

give an | Course Hero", *Coursehero.com*, 2021. [Online]. Available: https://www.coursehero.com/file/92725253/Chapter-2doc/. [Accessed: 17- Mar- 2021].

[11] P. Team, "DESIGN AND IMPLEMENTATION OF ONLINE ADMISSION AND RESULT CHECKING SYSTEM", *Projectregards.com*. [Online]. Available: https://projectregards.com/computer-science/design-and-implementation-of-online-admission-and-result-checking-system/undergraduate-research-project-topics-and-materials-students-in-nigeria. [Accessed: 19- Mar- 2021].

[12] R. Alikira, *Online Application System - Its Weaknesses and their possible Solutions*. 2010.