



Daffodil
International
University

University Admission Guideline

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161-35-1577

A project submitted in partial fulfillment of the requirement for the degree of Bachelor of Science in Software Engineering

Department of Software Engineering
Daffodil International University
Fall- 2019

University Admission Guideline

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in partial fulfillment of the requirements for the degree of Bachelor of Science in Software
Engineering.

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Abstract

University admission service this application provides that which students place different locations can access information and take admissions. Using this application process time will be reduced and students who are required can fill admissions forms. If any student wants to help with the traveling system of admission time we will be provided to transports service.

This procedure is called an online admission process where there is no use of paper admissions. One student fill-up required to form this system announce that what is the best university for his required. Users can live communication for information on any university in Bangladesh.

The purpose of designing online immigration is to give the people a platform for finding a right and a satisfactory job according to their qualifications. It also connects people with major agencies.

Key words: University Admission Guideline

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Chapter 1

Introduction

1.1 Project Overview

University admission help service this application provide that which students place different locations can access information and take admissions. Using this application process time will be reduced and students who are required can fill admissions forms. If any student want to be help on traveling system of admission time we will be provide to transports service.

This procedure is called as online admission process where there is no use of paper admissions. One student fill up required form this system announce that what is the best university for his required. User can live communication for information any university of Bangladesh.

1.2 Project Purpose

This project named "University Admission Help" is make to automation system which required student given helpful for there who better university. So that's why we are going to develop such a project.

1.2.1 Background

Nowadays all public universities published there admission test schedules often the same season. We saw that two University admission tests established the same day or one day up and down. Therefore we look that some student suffers a problem, there cannot understand which university is best for there required marks of attending. And also that some students live long distances from the university, If two universities take the admission test they can not attend both tests.

1.2.2 Benefits Beneficiaries

Now List to benefits and Beneficiaries this application

- We are tracking the university admission test and given to the student
- We provided to suggestion where is the best place of required student
- Building communication between the student and informer teachers
- It helps maid-servant to get a job easily

- This application makes authentication and trustful
- Making an online system where a student can be known admission information all public university
- Whoever is finding the proper university on regular time according to their choice will be able to find.
- Required is get entry to to a laptop and net connectivity No greater going for walks out of paper software bureaucracy.
- One of the great online software device in college admission can pick to post their subject at their convenience.
- The system also going to reduce wasting time .
- The user could make live conversations beneath any test.
- So, The our motive is to create an online place where a student can apply for admission overall public university.

1.2.3 Goals

This application provides the admission tests schedule on any universities in Bangladesh. One student will be able to apply on the university admission test his earlier required result by this software and it will provide suggested best place for next institution for education.

1.3 Stakeholder

The Stakeholder for this system:

- Admin
- Student

Admin : Admin can create one application form in which one student can apply a university admission test for there choice university. All times admin collect all action and reply feedback of university admission tests. When one student applies for admission the system automatic

reply thereof their requirement.

Student : The students find out about best university in Bangladesh. They can apply to a specific university or all over the university. Admin post latest notice for university testes. Students find out there best university for their requirements.

1.4 Proposed System Model

I have already organized a website. This model will clarify our proposed gadget in short.

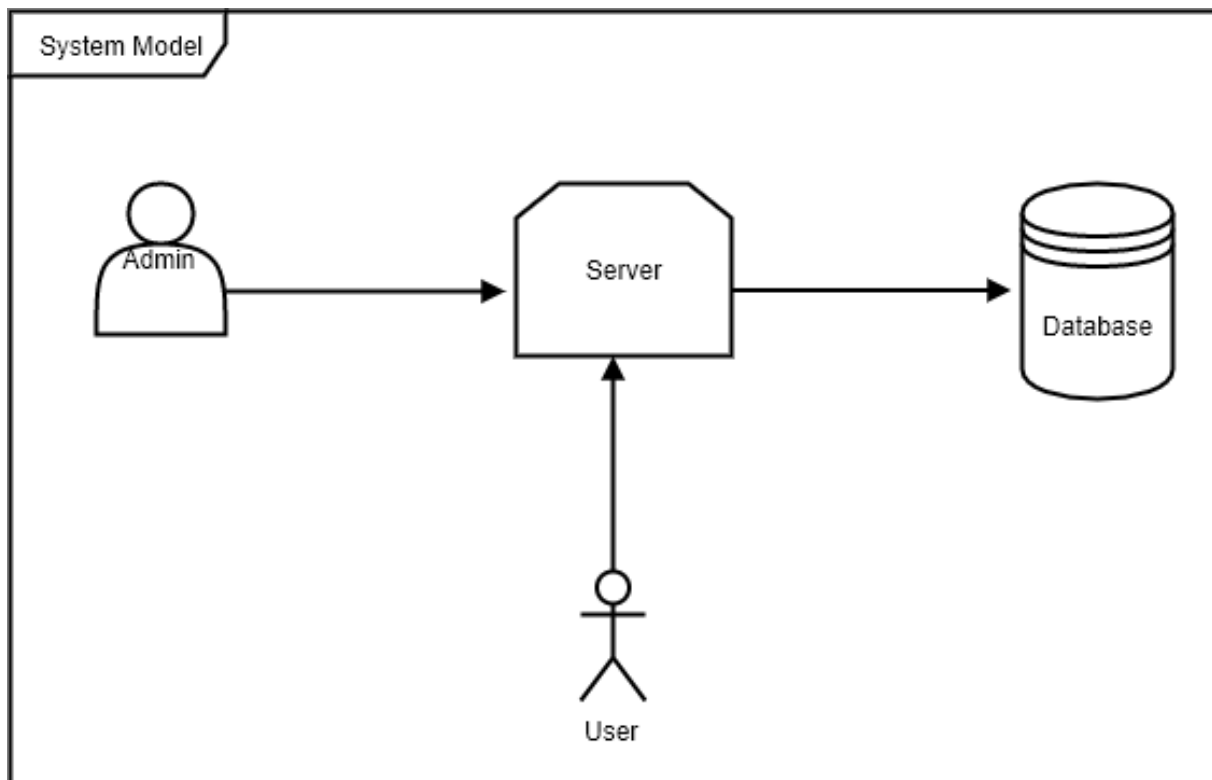


Figure 1.1: System Model

1.5 Project Schedule

Right scheduling is assisting to finish the venture effectively and on time. Project scheduling makes perfect artwork go along with the drift to little by means of 1 time-frame. The scheduling is should for the net software.

1.5.1 Gantt Chart

Gantt chart is specifically manufacturing manipulate tools. It remained us to finish our assigned duties within a certain time period. For developing a website, it's far on the student's use. Now I will display a Gantt chart for our task the application:

Gantt Chart with Subtasks

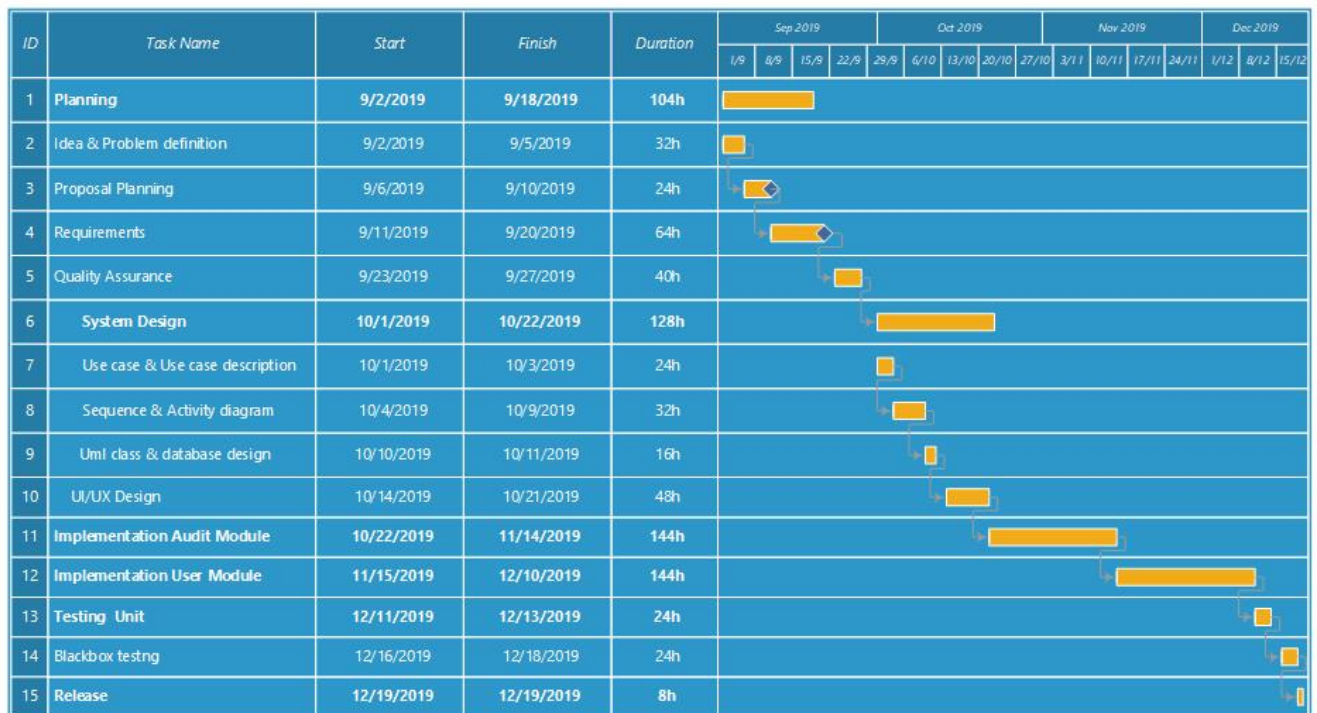


Figure 1.2: Gantt chart

1.5.2 Release Plan or Milestone

The release plan or milestones are given below:

Activities	Duration in Month	Total Month
Brainstorming	First-half(First month	0.5(Half month)
Problem identification	First month	1
Requirement specification 1.5	Second-half (Second month)	Third month
Requirement analysis	Third month	1
Sketching	Fourth month	1
Design specification	Fourth month	1
Database design	Second-half (Fourth month)	0.5
Post for booking party center	First-half (Fifth month)	1.5
Post for laundry service	Second-half(Fourth month)	1
Quality assurance 1	Second-half (Third month)	First-half(Fourth month)
Test case	First-half (Fifth month)	0.5
Unit testing 1	Second-half (Fourth month)	Fifth month
Black-box testing 2	Fifth month	Sixth month
Website	Eight	1

Table 1.1: Release Plan

1.6 Organization of the Project

The dissertation is organized as follows:

- **Chapter 1 Introduction.**In this bankruptcy, an advent to the University admission test application is supplied. The definition, significance and existing procedures are without a doubt delivered. After that, the dissertation focuses on the contribution..
- **Chapter 2 SRS.** This chapter first shows the state of the art Requirements of "University Admission Tests". Then describe two existing periodic pattern mining works *PSEMiner* and *ListMiner* in dynamic networks. The limitations of these methods are clearly addressed, as these are the focuses of this dissertation.
- **Chapter 3 Requirement Analysis.** I present my proposed technique for "University Admission tests service".
- **Chapter 4 System Design Specification.** In this chapter, it has been shown the System Design Specification.
- **Chapter 5 System Test.** Finally, this chapter is a level of software program checking out where a complete and included software is tested. The motive of this test is to evaluate the gadget's compliance with the desired requirements
- **Chapter 6 User Manual.** In this chapter, The User Manual consists of all important records for the person to make complete use of the data device. This manual includes a description of the device features and capabilities, contingencies and trade modes of operation, and step-by-step procedures for system get admission to and use
- **Chapter 7 Conclusion.**In this chapter,A conclusion is the last part of something, its end or result.The phrase in conclusion means "finally, to sum up," and is used to introduce some final comments at the end of a speech or piece of writing.

Chapter 2

Software Requirements Specification (SRS)

2.1 Introduction

In this chapter, periodic patterns mining relevant literature's in unstructured and structured databases have been reviewed. The main focus of this project is mining periodic patterns in university admission service representation model. At first, some periodic patterns mining research in unstructured database are described briefly. Finally, we conclude this chapter mentioning some limitations of existing works and make clear our motivation.

2.2 Functional Requirements

Functional requirements seek advice from the characteristic that's ought to belong to the gadget. Functional necessities are mandatory to perform the software device. There is no gadget with our practical requirements. Now, we are going to speak about practical necessities for my application.

Priority Chart : A Prioritization Matrix is a useful method to identify which issues are the most important to paintings on solving first. The Matrix facilitates you rank problems or problems generated via brainstorming. Using Priority Chart we will perceive which characteristic need to get High Priority and which one should be Medium and which one is Low.

In Priority Matrix there is two part one is "Important" another one is "Urgent". If any function is:

Important also Urgent = High Priority

Important but Not Urgent = Medium Priority

Not Important but Urgent = Low Priority

Not Important and Not Urgent = Ignore It

Important also Urgent	Yes	No
Yes	High Priority	Medium Priority
No	Low Priority	Ignore It

Priority of our system features based on Priority Chart

Freq.No	Use case	Important	Urgent	Priority
FR01	Create Profile	Yes	Yes	High
FR02	Login Of Admin	Yes	Yes	High
FR03	Post for admission	Yes	Yes	High
FR04	Apply for admission	Yes	Yes	High
FR05	View Admission service	No	Yes	Medium
FR06	View Previous History	Yes	Yes	Medium
FR07	View Profile	No	Yes	ignore It
FR08	Edit Admin profile	Yes	Yes	Medium
FR9	Conformation Post	Yes	Yes	High

Table 2.1: Priority Chart.

2.2.1 Admin Registration

FR01	Create Profile		
Description	Admin can create the profile with Valid require information like Name, Phone number, Address, Email etc. Admin must be login into the Application for perform this task.		
Stakeholder	Admin	Priority : High	

2.2.2 Login For Admin

FR02	login for Admin		
Description	Admin can create an account for admission testes. And also that they showing that notice for admission.		
Stakeholder	Admin	Priority : High	

2.2.3 Post For Admission

FR03	Post for admission		
Description	Admin can post admission tests schedule where all students can apply for admission under Bangladesh.		
Stakeholder	Admin	Priority : High	

2.2.4 Apply For Admission

FR04	Apply for admission		
Description	When student notices checks out then all students can apply for admission under Bangladesh.		
Stakeholder	Student	Priority : High	

2.2.5 Students View Admission service

FR05	View Admission service		
Description	Student can see all admission tests schedules.		
Stakeholder	Student	Priority : Medium	

2.2.6 Student View Previous history

FR06	View Previous History		
Description	Student can able to see all previous history. After a period of session the all activity of university, goes to previous history.		
Stakeholder	Student	Priority : Medium	

2.2.7 Admin View Profile

FR07	View Profile		
Description	Admin can able to see his profile . After a period of session the all activity of university, goes to previous history.		
Stakeholder	Admin	Priority : Medium	

2.2.8 Admin edit their Profile

FR08	Edit their profile		
Description	Admin can Edit their apply post. For edit their have to go their apply through clicking previous button on menu bar “Edit”. And click the Edit button students can edit their own profile.		
Stakeholder	Student	Priority : Medium	

2.2.9 Conformation Admission tests Post

FR9	Conformation Post		
Description	Admin getting university admission tests notification from admin, then admin check the schedule and other info and confirm the post.		
Stakeholder	Admin	Priority : High	

2.3 Data Requirements

For attaining the version objectives data necessities prescribed scope and degree of detail required. What statistics are needed for constructing the version may be known through amassing device records. Instead of amassing fashionable system facts it’s better to accumulating precise machine information. A usual process float can provide greater particular records. A method waft also facilitates to build a version constructing procedure.

We focus some of main points:

- Route admission tests and their capability
- The type of entity and their attributes
- Types of resources
- Entities movement
- What activity
- Quantity of data

2.4 Performance Requirements

Defined performance specs incorrectly can lead to disputes among students and University's authority.

2.4.1 Speed and Latency Requirements

This is rare, in a few cases the reaction time may be dictated by means of legal necessities. Response time is critical for personal pride. If any gadget loaded greater than 10 seconds then a person keeps away from them of all activity.

RT1	View and post result should be displayed less than 4 seconds		
Description	When students or Admin want to see any information then the view result must be show less than 4 second		
Stakeholder	Student,Admin	Priority : Medium	

2.4.2 Precision or Accuracy Requirements

Always display the correct end result to all sorts of customers. Wrong facts stands up the false impression.

PAR1	View Result must be accurate		
Description	When the students or Admin want to see any information then the view result must accurate.		
Stakeholder	Student,Admin	Priority : Medium	

2.4.3 Capacity Requirements

The gadget should be capable of assisting a positive amount of students and a certain amount of interactions.

RT1	Supporting a sure quantity of college students and a certain amount of interactions.		
Description	Suppose the machine must guide two hundred Universities and one hundred interactions according to day.		
Stakeholder	Student,Admin	Priority : Medium	

2.5 Dependability Requirements

The dependability is measured based on 4 dimensions. Such as:

- Reliability
- Availability
- Durability
- Reliability

Dependability is the capacity to offer offerings that can defensibly be depended on within a time-length.

2.5.1 Reliability Requirements

Reliability is the opportunity of failure-loose operation of a machine over a special time within a detailed environment for a precise cause.

DR1	The device should be failure-loose		
Description	The device ought to be failure-loose operation gadget and technical error-unfastened over a certain time inside this form of surroundings		
Stakeholder	Student,Admin	Priority : High	

2.5.2 Availability Requirements

AR1	The ability of the system to supply service when requested		
Description	The device must be to be had on 24 X 7. The ability of the gadget to deliver provider when requested		
Stakeholder	Student,Admin	Priority : High	

2.5.3 Durability Requirements

D1	Ensure that the system can cope with all user access or any outside tolerance		
Description	The device can address an blunders all through execution. Also, make certain that the system maintains well even of the failure of some of its additives		
Stakeholder	Student,Admin	Priority : High	

2.6 Maintainability Support ability Requirements

System protection is most crucial necessities. For lack of safety the records could be stealing, manipulating information and causing denial of carrier.

Some security related categories

- Permission to access data
- Verification
- Securing information
- Security policies

2.6.1 Access Requirements

Reduce unauthorized get entry to there have some boundaries. There remain a few authentication and authorization method.

- Strong Access Control Measures
- Maintain an Information Security Policy

- Regularly Monitor and Test Networks
- Build and Maintain a Secure Network

2.6.2 Integrity Requirements

Ensure that facts and communications aren't deliberately corrupted through unauthorized advent, deletion, change. We use a Hash fee for touchy records.

2.6.3 Privacy Requirements

Privacy requirements are in the main needed for a device. In our system, we accomplice the Users and admin vicinity and all and sundry can see best the area this is related to them.

2.7 Usability and Human-Interaction Requirements

The system can be failed for Usability. User Experience is one of the most crucial factors for any system. The device must be clean to apply, easy to recognize and easy to research.

2.7.1 Ease of Use Requirements

This application may be very clean to use and smooth to comprehensible. There is not any long technique to finish a mission. Users can whole their motion with some steps.

2.7.2 Personalizing

In my Project, there are no personalising and internationalization requirements.

2.7.3 Politeness Requirements

I made this device primarily based on a centered place and all of those centered areas students have acknowledged approximately our system because this device is making their life simpler. User can recognize this device by means of very own.

2.7.4 Accessibility Requirements

The requirements for the way smooth it needs to be for the student and our system is very a great deal clean to apply and recognize.

2.7.5 User Documentation Requirements

Gather the user expects and have to do it in the machine well is mandatory due to this requirement given by means of the consumer immediately. And after the complete system consumer can provide new requirements then it's additionally be added in the machine.

2.7.6 Training Requirements

If it wishes to train the person to apply the system nicely then it's a have to to training them nicely. In our venture, we don't need this type of training for consumer but a simple guide for them.

2.8 Look and Feel Requirements

If your systems look garbage then the person can experience boring and not going to the following step. Look and sense necessities are how the machine will appear to be and the way the consumer interface or graphical user interface of our machine will display to the consumer.

2.8.1 Appearance Requirements

The students and Admin should understand which subject is required and which isn't due to the fact we make it easily comprehensible. Such as, if there any optional subject then the phrase "optional" seemed in the field.

AR1	In non-obligatory area the phrase "elective" need to appear into the field		
Description	If there is no elective word that seemed within the subject which means this subject is obligatory for enter.		
Stakeholder	Student,Admin	Priority : High	

2.8.2 Style Requirements

Keeping all contents within a format is easy to recognize for the consumer. An exact style can attract to user hold them into the gadget long time.

SR1	All content has to seem inside a layout		
Description	The input subject and other view result show a selected format		
Stakeholder	Student,Admin	Priority : High	

2.9 Operational and Environmental Requirements

Operational requirements are the one's statements that pick out the critical abilities, associated, and overall performance measures. The operational environment stands for political, social, legislative, monetary, cultural and herbal environmental elements that appreciably affect the implementation of any cooperation.

2.9.1 Expected Physical Requirements

There aren't any physical necessities in our device.

2.9.2 Requirements for Interfacing with Adjacent Systems

There are H.S.C necessities for interfacing with the adjoining device for our venture.

2.9.3 Release Requirements

There aren't any specific launch necessities in our system

2.10 Legal Requirements

Legal Requirements approach, as to any Person, any requirement under a Permit and any Governmental Rule. But our device there may be no reference to Government.

Chapter 3

Requirement Analysis

3.1 Introduction

I have use case diagram. And there are actors. Each actor plays a one-of-a-kind role. And those are already indicated to this use case diagram. This diagram will clarify my application in quick.

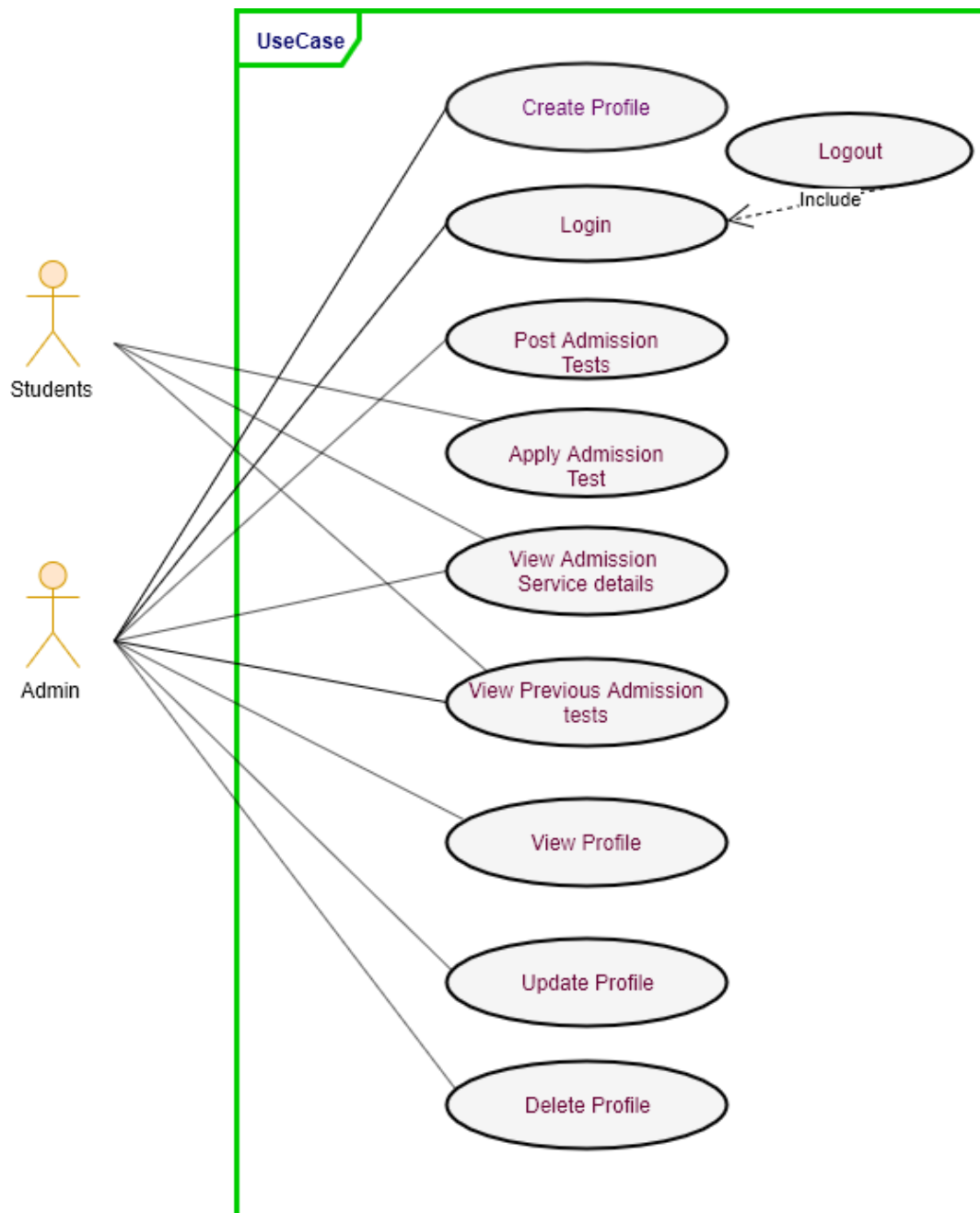


Figure 3.1: Use Case diagram for "University Admission Guideline"

3.1.1 Case of Registration

Use Case	Create Profile	
Goal	Create Admin profile accounts	
Preconditions	User type must be admin	
Success End Condition	Create Admin profile successfully	
Failed End Condition	Can not create account	
Primary Actors	Admin	
Trigger	Admin click on the “Registration” button	
Description / Main Success Scenario	Step	Action
	1	Fill up all require information
	2	Create admin profile
Alternative Flows	Step	Action
	2a	Can’t admin student profile
	2a	Can’t access the system
Quality Requirements	N/A	

3.1.2 Case of Login

Use Case	Login For Admin	
Goal	Admin input the software after the login efficaciously	
Preconditions	Admin must exist in database	
Success End Condition	Admin can access the system	
Failed End Condition	The user name and password is not valid	
Primary Actors	Admin	
Trigger	Admin click on the “login” button	
Description / Main Success Scenario	Step	Action
	1	System display the login page
	2	Admin enter his Email and Password
	3	Admin click on the login button
	4	Admin access the system
Alternative Flows	Step	Action
	1	Email and Password in not valid
	2	Can’t access the system
Quality Requirements	Step	Requirements
	1	N/A

3.1.3 Admission Tests Post

Use Case	Post Admissions tests	
Goal	Admin can post to admission tests schedule	
Preconditions	User type must be Admin	
Success End Condition	Successfully this post for admission tests	
Failed End Condition	The Admin submit for admission tests	
Primary Actors	Admin	
Trigger	Click on the “Post” button	
Description / Main Success Scenario	Step	Action
	1	Admin can be able to see admission tests
Alternative Flows	Step	Action
	1	Admin can’t the post
	2	Can’t access the system
Quality Requirements	N/A	

3.1.4 Apply for Admission tests

Use Case	Apply Admission Tests	
Goal	Students apply to admission tests	
Preconditions	Fill up all require information field	
Success End Condition	Successfully apply for admission tests	
Failed End Condition	Students can’t apply of admission tests	
Primary Actors	Students	
Trigger	Students click on the “Apply” button	
Description / Main Success Scenario	Step	Action
	1	Students provide all required information
	2	Submit the apply for admission
Alternative Flows	Step	Action
	1 Can’t access the system	Students can’t apply for admission 2
Quality Requirements	N/A	

3.1.5 View Admission Service Details

Use Case	View Admissions tests	
Goal	Students and Admin can see details information of any admission tests	
Preconditions	User type must be students or Admin	
Success End Condition	See Admission tests service details	
Failed End Condition	There are can't see of admission tests	
Primary Actors	Admin And Students	
Trigger	Click on the "Notice" button	
Description / Main Success Scenario	Step	Action
	1	Students or Admin can be able to see admission tests details
Alternative Flows	Step	Action
	1	Students can't see all notice
	2	Admin can't see all notice
Quality Requirements	N/A	

3.1.6 View Previous history

Use Case	View Previous Admission Tests	
Goal	View all previous history of admission tests	
Preconditions	User type must be students or Admin	
Success End Condition	Students or Admin see his all previous history	
Failed End Condition	Can't available see of admission tests	
Primary Actors	Admin Or Students	
Trigger	Previous history data visible click on "Details"	
Description / Main Success Scenario	Step	Action
	1	Students data appear to Universities
	2	Students click on "Previous History" button to see his previous history
	3	Admin click on "Previous History" button to see his previous history
Alternative Flows	Step	Action
	2a	Students can't able to see his previous history
Quality Requirements	N/A	

3.1.7 View Profile

Use Case	View Profile	
Goal	Admin can be viewed there profile	
Preconditions	User type must be admin	
Success End Condition	Successfully admin see profile on account	
Failed End Condition	Can't Viewed profile	
Primary Actors	Admin	
Trigger	Press the "Profile" button	
Description / Main Success Scenario	Step	Action
	1	Students data appear to Universities
	2	Students click on "Profile" button to see his previous history
Alternative Flows	Step	Action
	2a	Admin can't be able to see profile
	2a	Admin can't access the system
Quality Requirements	N/A	

3.1.8 Update Profile

Use Case	Update Profile	
Goal	Admin can be edit his profile	
Preconditions	User type must be Admin, and login on profile	
Success End Condition	Admin can be update his profile	
Failed End Condition	Admin can't update his profile	
Primary Actors	Admin	
Trigger	Update profile data visible to the admin click on "Update" button	
Description / Main Success Scenario	Step	Action
	1	Admin data appear to Universities
	2	Admin to see his previous history
Alternative Flows	Step	Action
	2a	Admin can't be able to update his profile
	2a	Admin can't be able to access his profile
Quality Requirements	N/A	

3.1.9 Delete Profile

Use Case	Delete Profile	
Goal	Delete an profile	
Preconditions	User type must be Admin and login on profile	
Success End Condition	Delete the profile	
Failed End Condition	can't elected the account	
Primary Actors	Admin	
Trigger	To the delete an profile click on "delete" button	
Description / Main Success Scenario	Step	Action
	1	Admin data appear to Universities
	2	Admin see his profile
Alternative Flows	Step	Action
	2a	Admin can't be able to this time
	2a	Admin can't be access to this time
Quality Requirements	N/A	

3.2 Activity Diagram

I have prepared some activity diagram according to our use case. These activity diagrams are properly referring the flow of the individual conditions of our project.

3.2.1 Create profile

Students can create a profile and offer the profile to the server, and using this profile students entry the system.

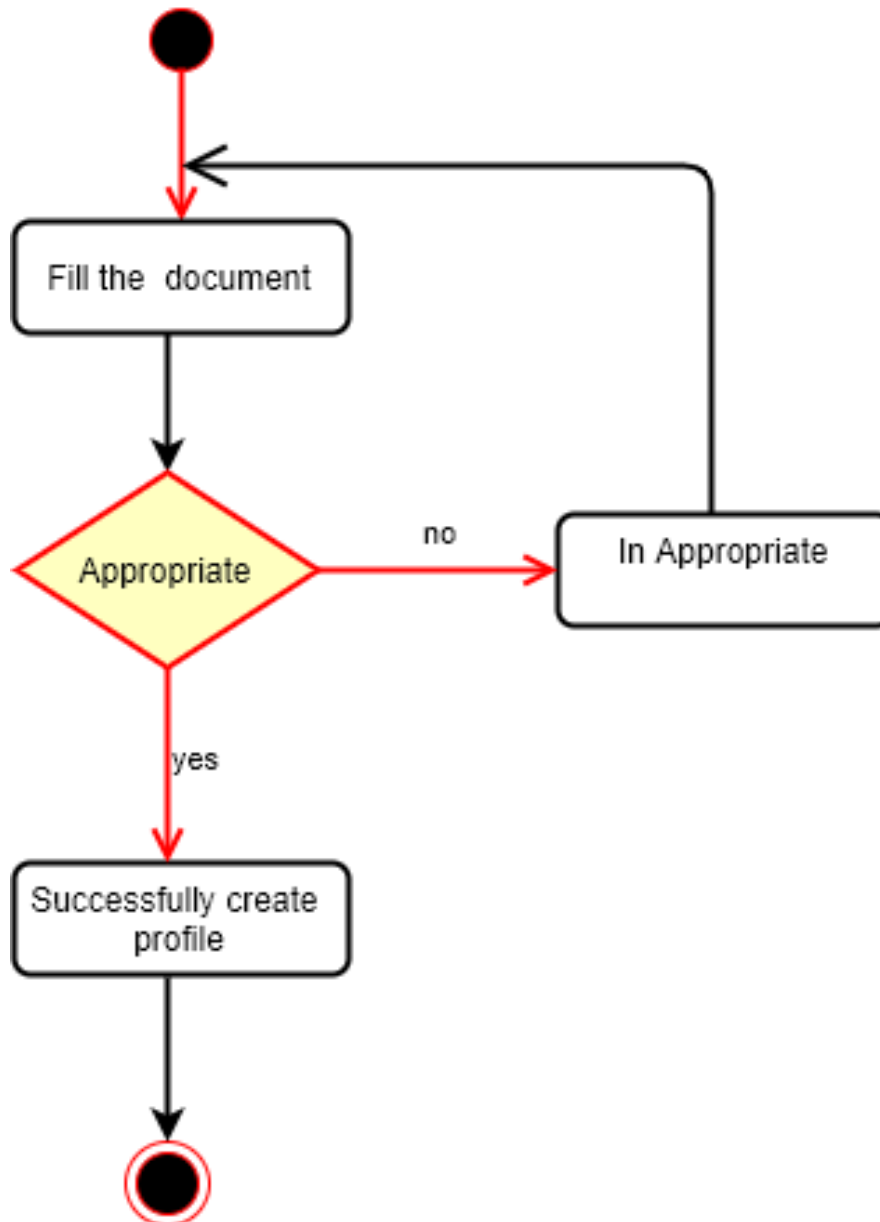


Figure 3.2: Activity diagram for Create Profile

3.2.2 Login profile

Admin or students also wish to verify them by login into the device, the usage of electronic mail and password.

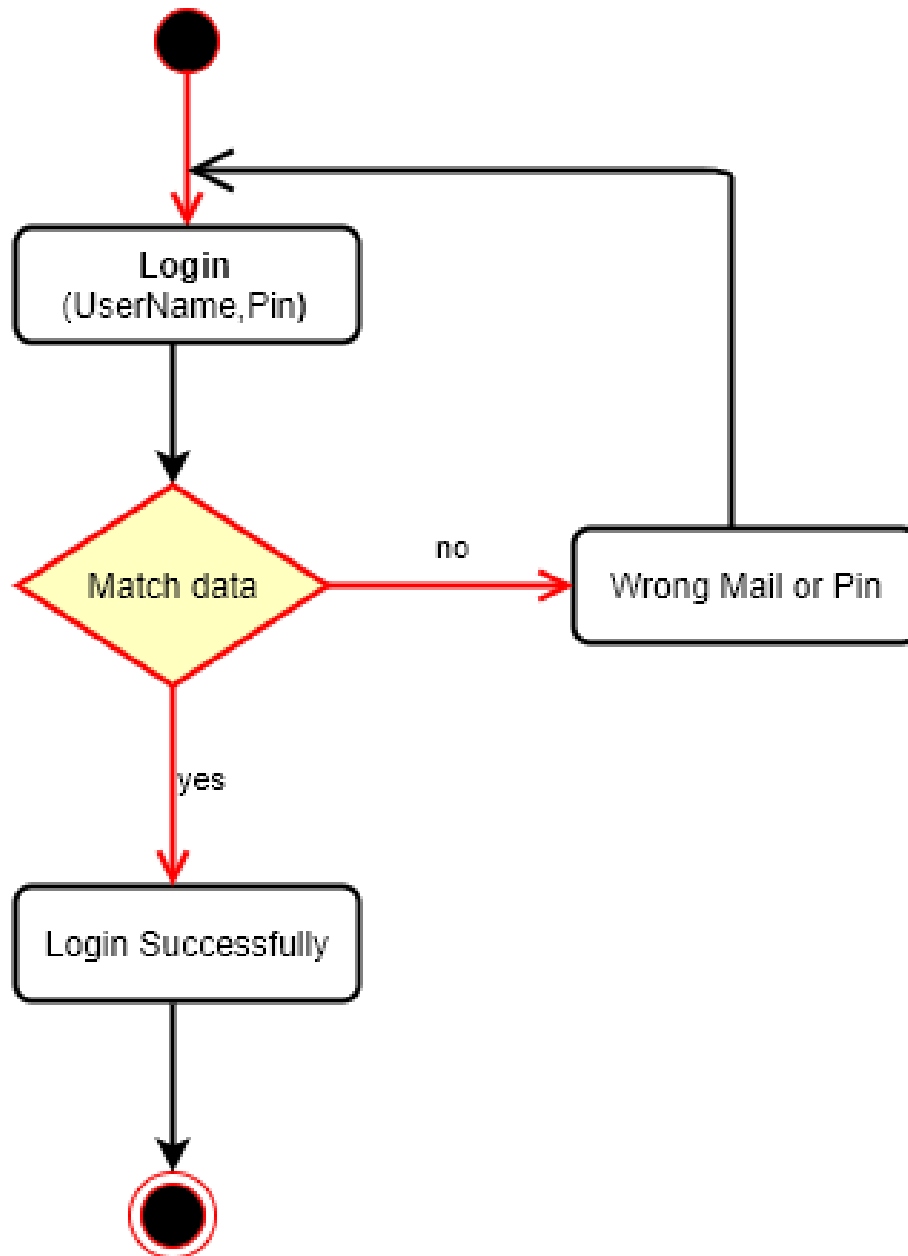


Figure 3.3: Activity diagram for Login Profile

3.2.3 Post admission tests

Only the admin can post for the admission test.

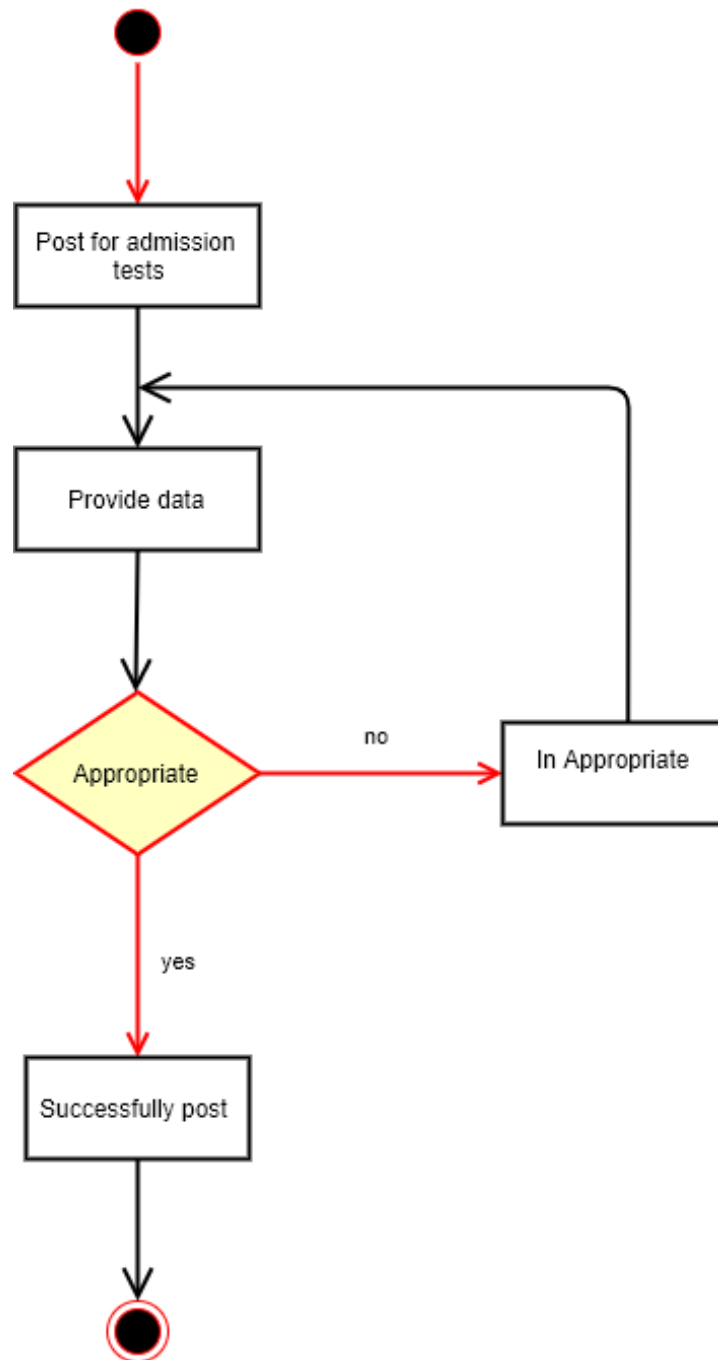


Figure 3.4: Activity diagram for Post admission tests

3.2.4 Apply admission tests

Only the student can apply for the admission test.

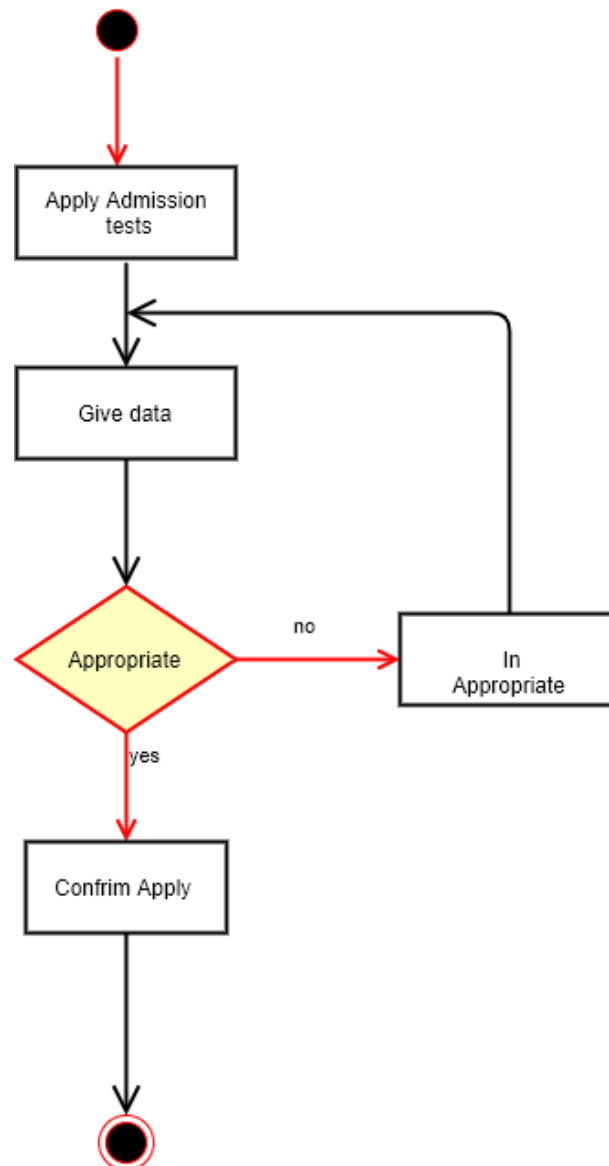


Figure 3.5: Activity diagram for Apply admission tests

3.2.5 View admission tests service

Students can view admission test information. There is an admission test provider information chart and admin can view it.

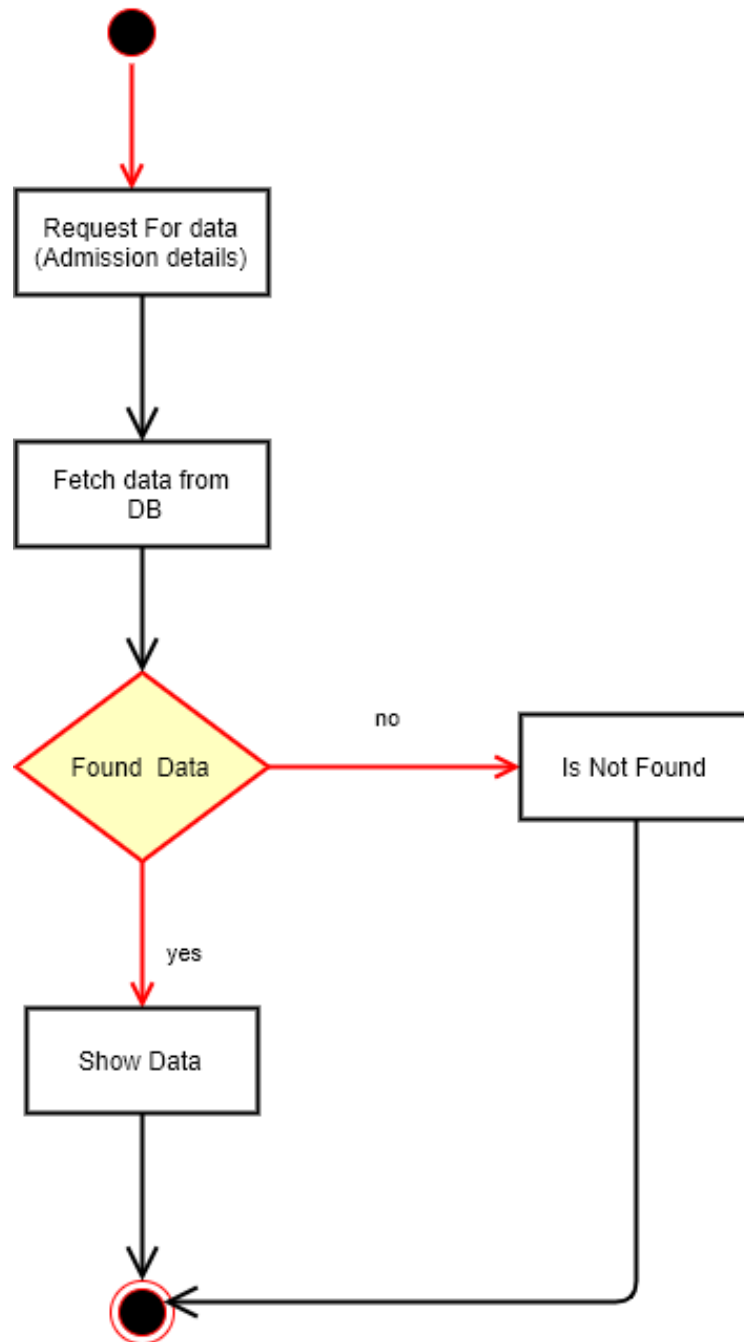


Figure 3.6: Activity diagram for View previous admission tests

3.2.6 View previous admission tests service

Students doing some activities such as post for Admission test apply, view tests result, etc. Then these activities will be recorded can see those activities in the previous history part.

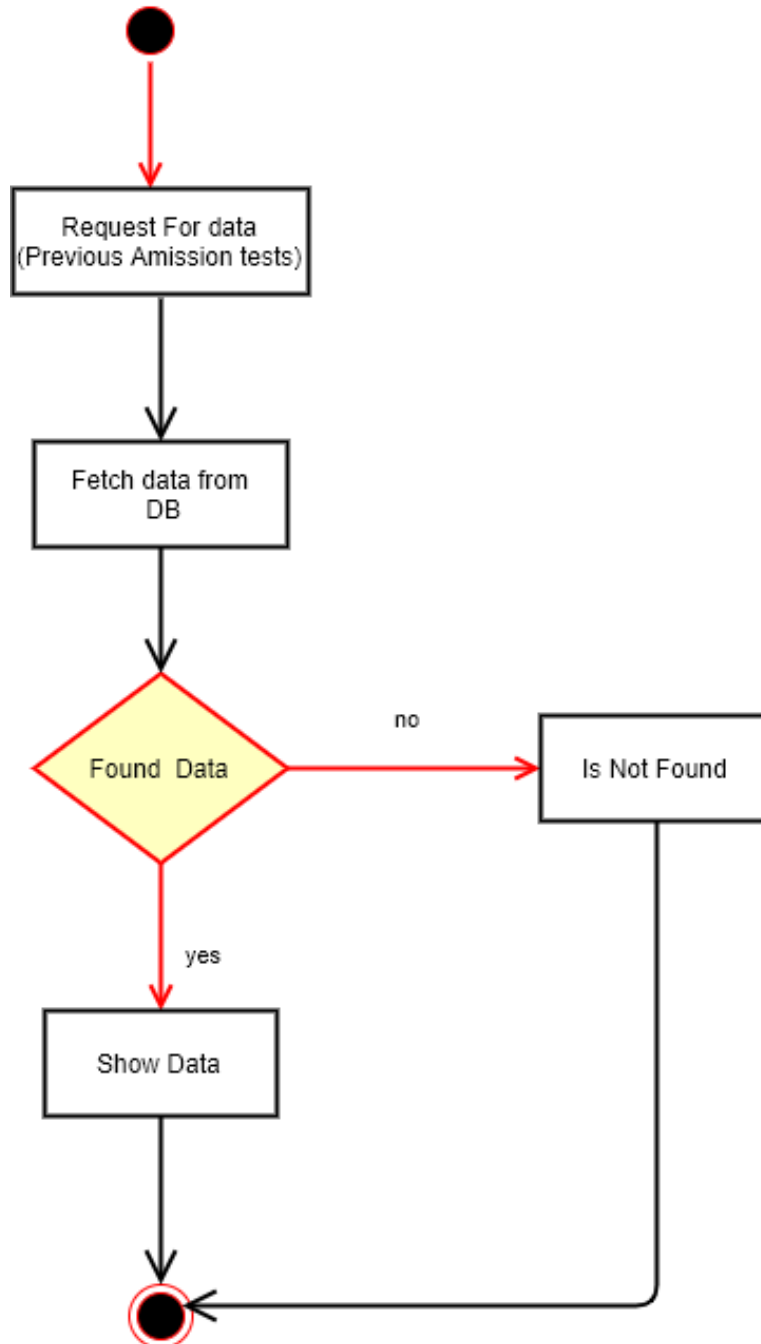


Figure 3.7: Activity diagram for View admission tests

3.2.7 View profile

Student or Admin can see there profile.

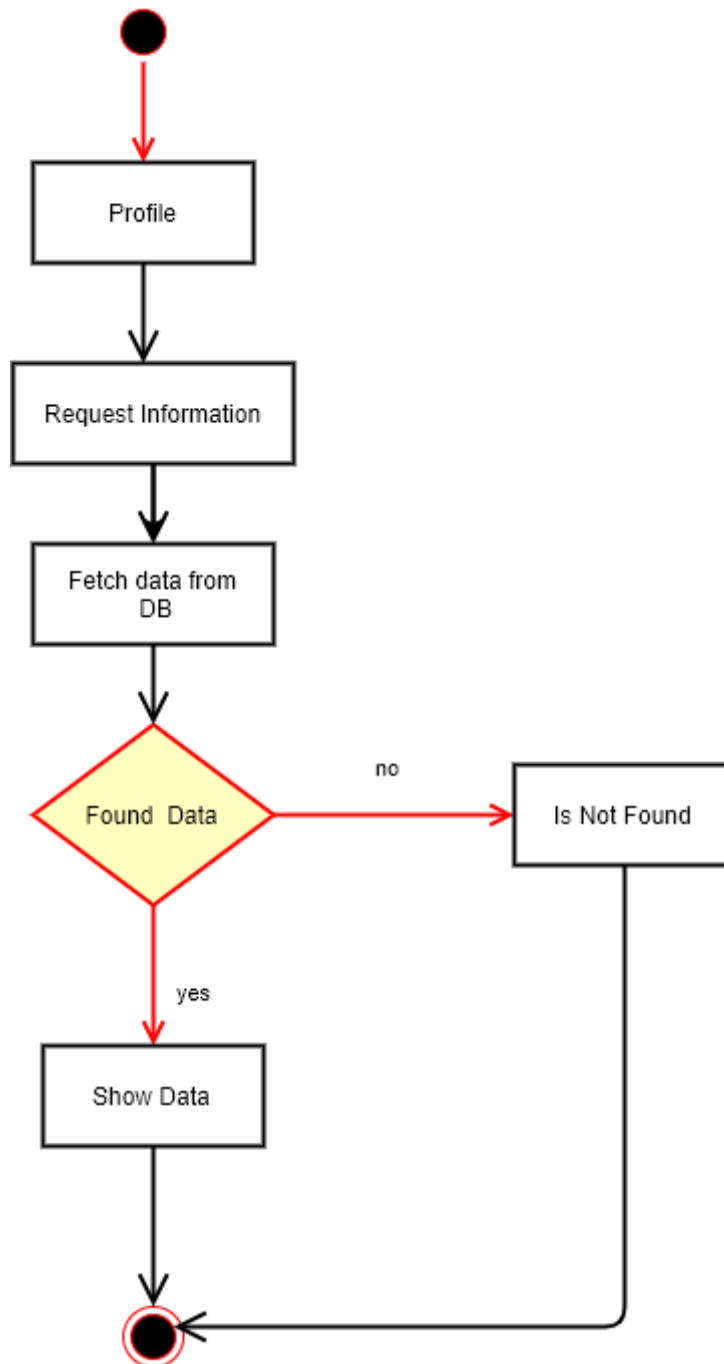


Figure 3.8: Activity diagram for View profile

3.2.8 Update profile

Students or Admin want to that, they ought to replace their profile then they are able to without problems edit their own profile.

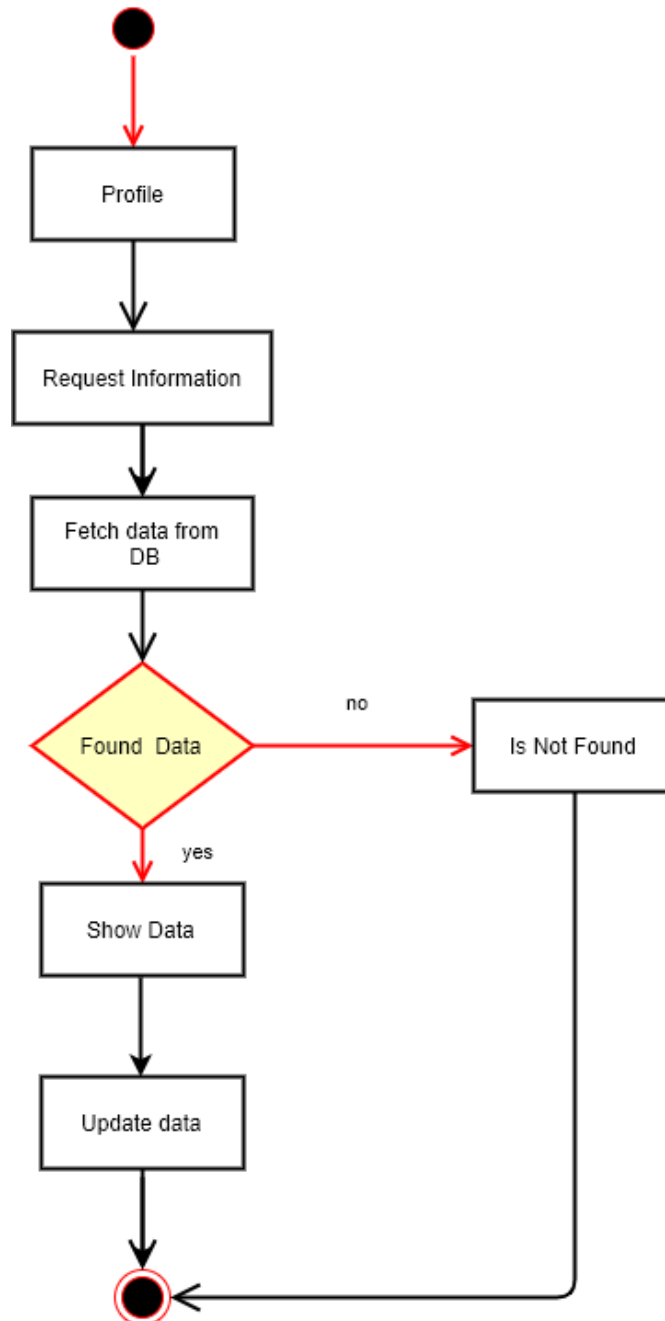


Figure 3.9: View profile

3.2.9 Delete profile

Students or Admin want to that, they ought to delete their profile then they are able to without problems delete their own profile.

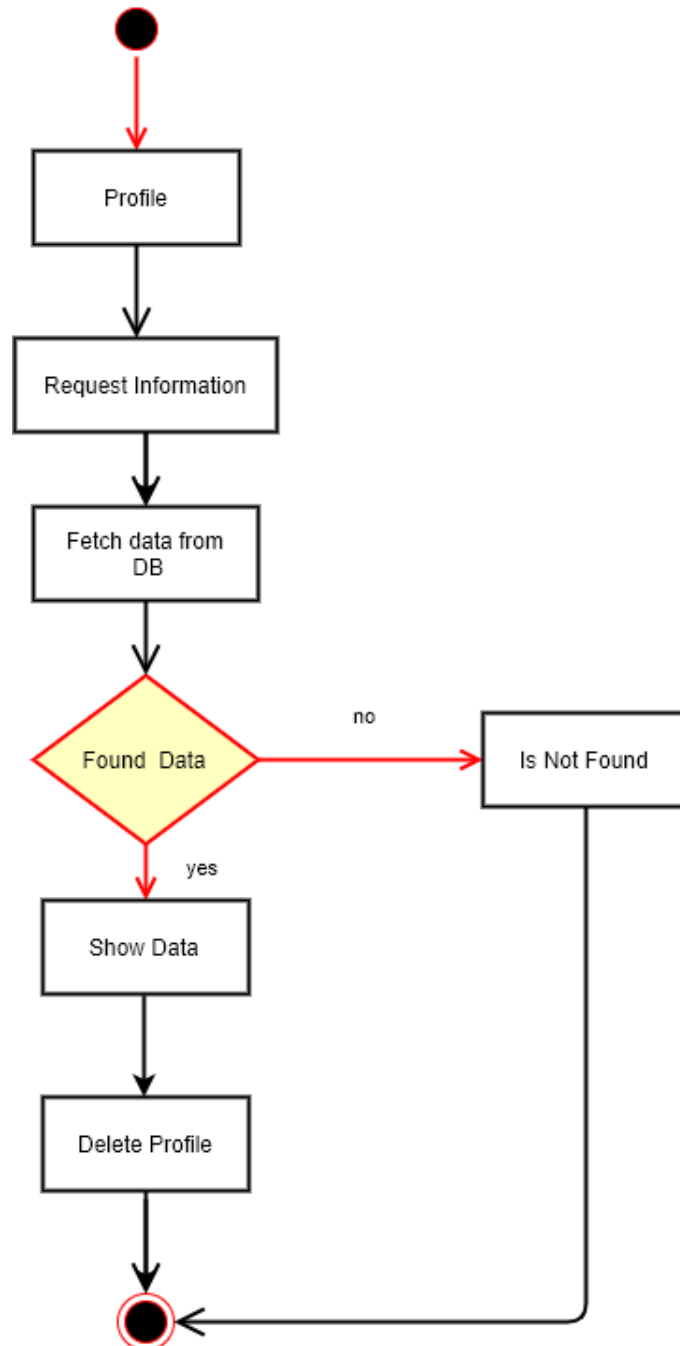


Figure 3.10: Activity diagram for Delete profile

3.3 Sequence Diagrams

Mainly collection diagrams understand how the facts could be followed in any utility. Now we are going to reveal a few sequence diagrams.

3.3.1 Create profile

Students can create a profile and offer the profile to the server, and using this profile students entry the system.

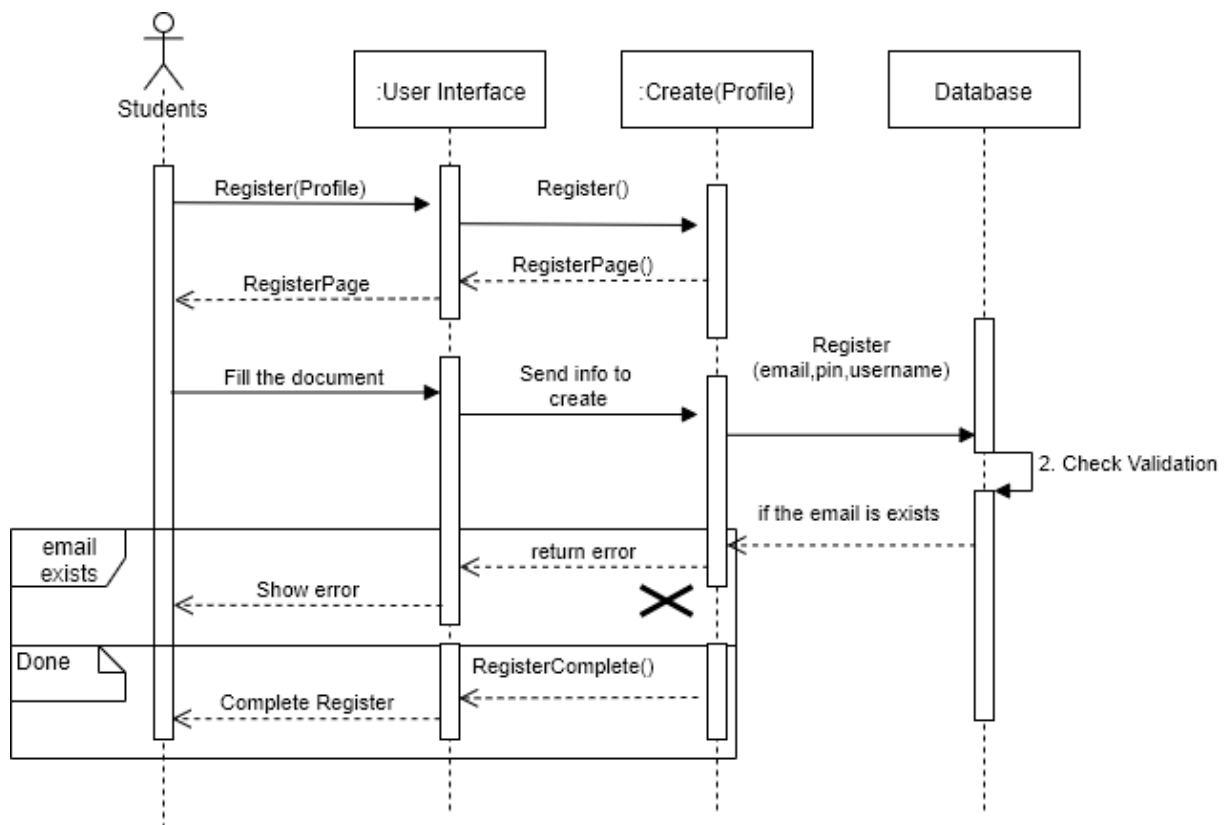


Figure 3.11: Sequence diagram for create profile

3.3.2 Login profile

Admin or Students login the system using the mail and password.

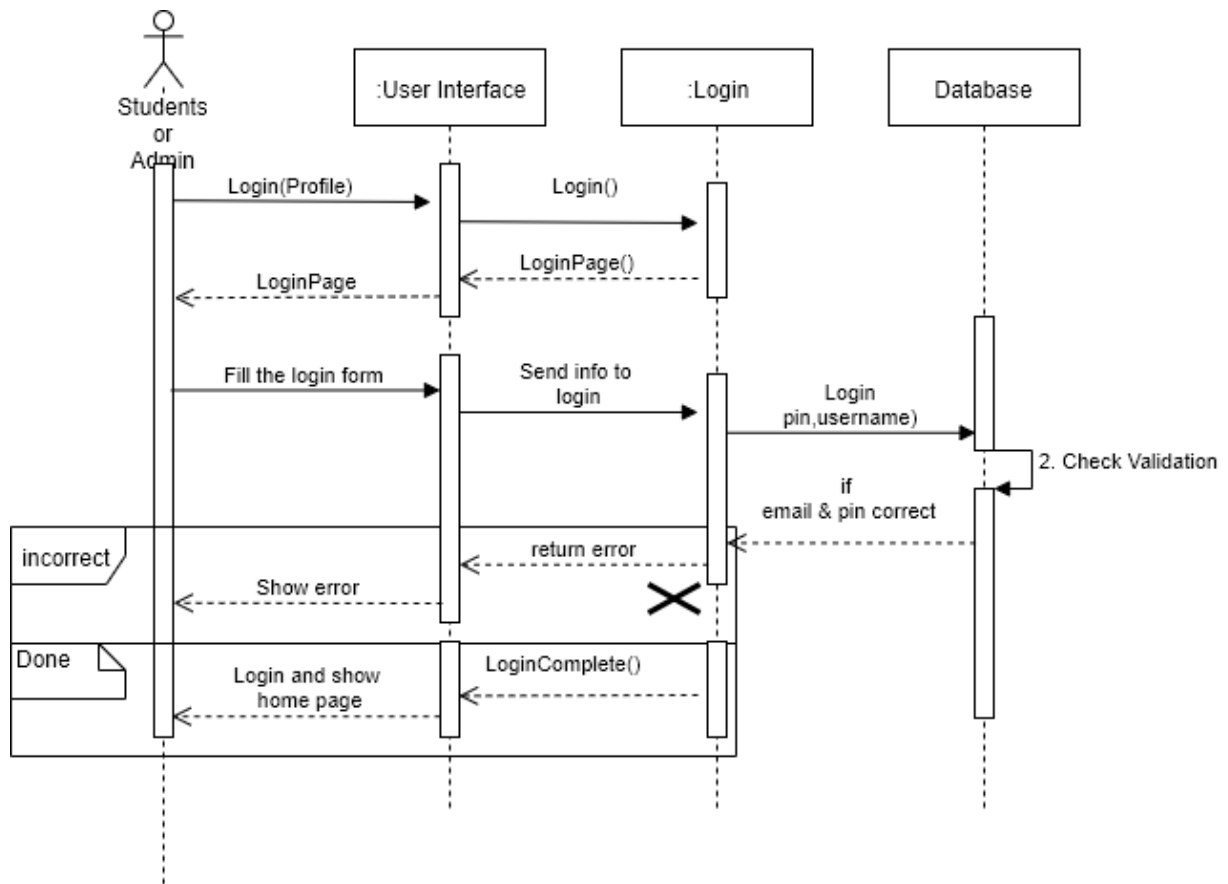


Figure 3.12: Sequence diagram for Login

3.3.3 Post admission test

only Admin can be post admission tests.

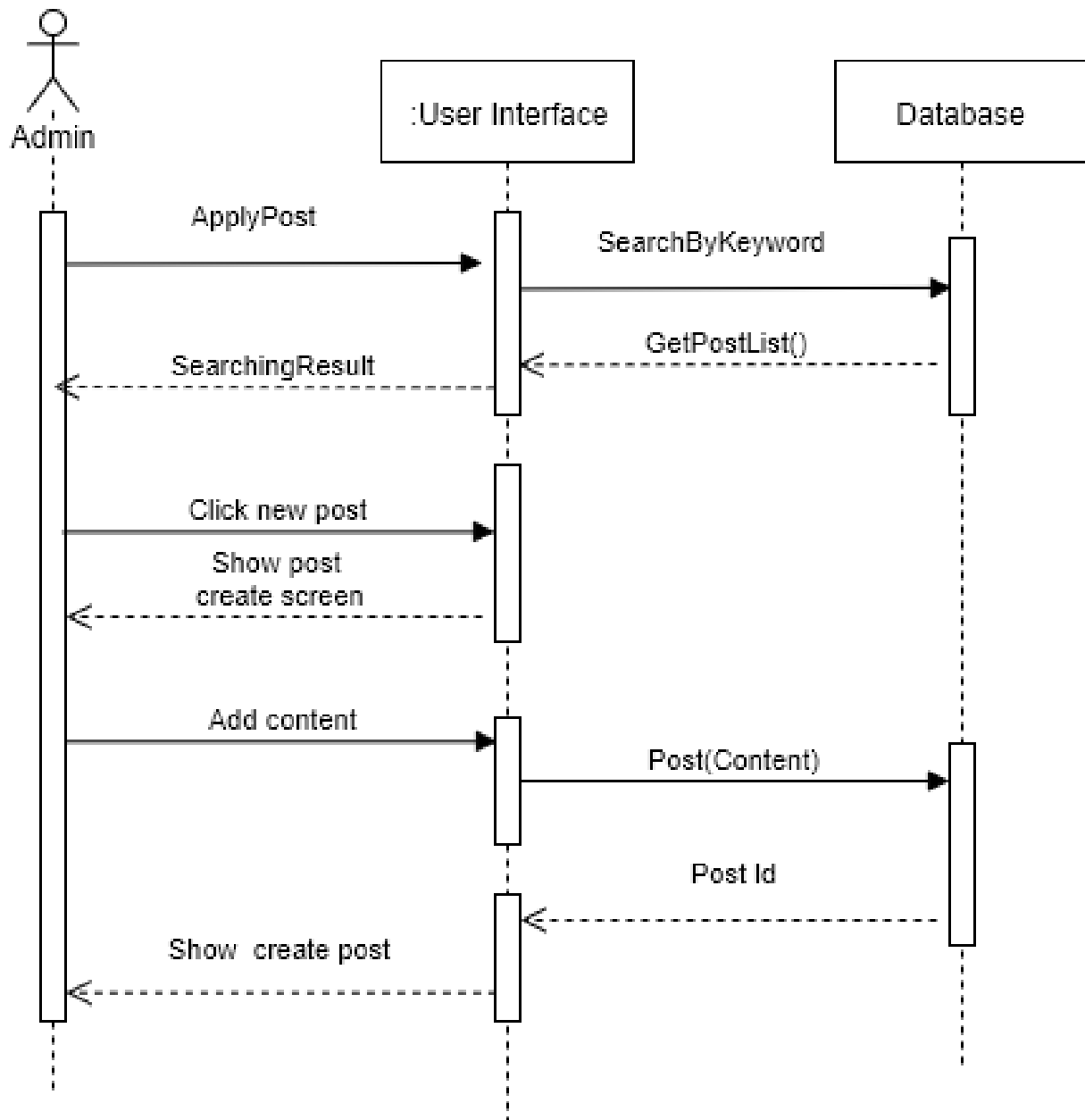


Figure 3.13: Sequence diagram for post admission tests

3.3.4 Apply admission test

Student can be apply admission tests anytime anywhere.

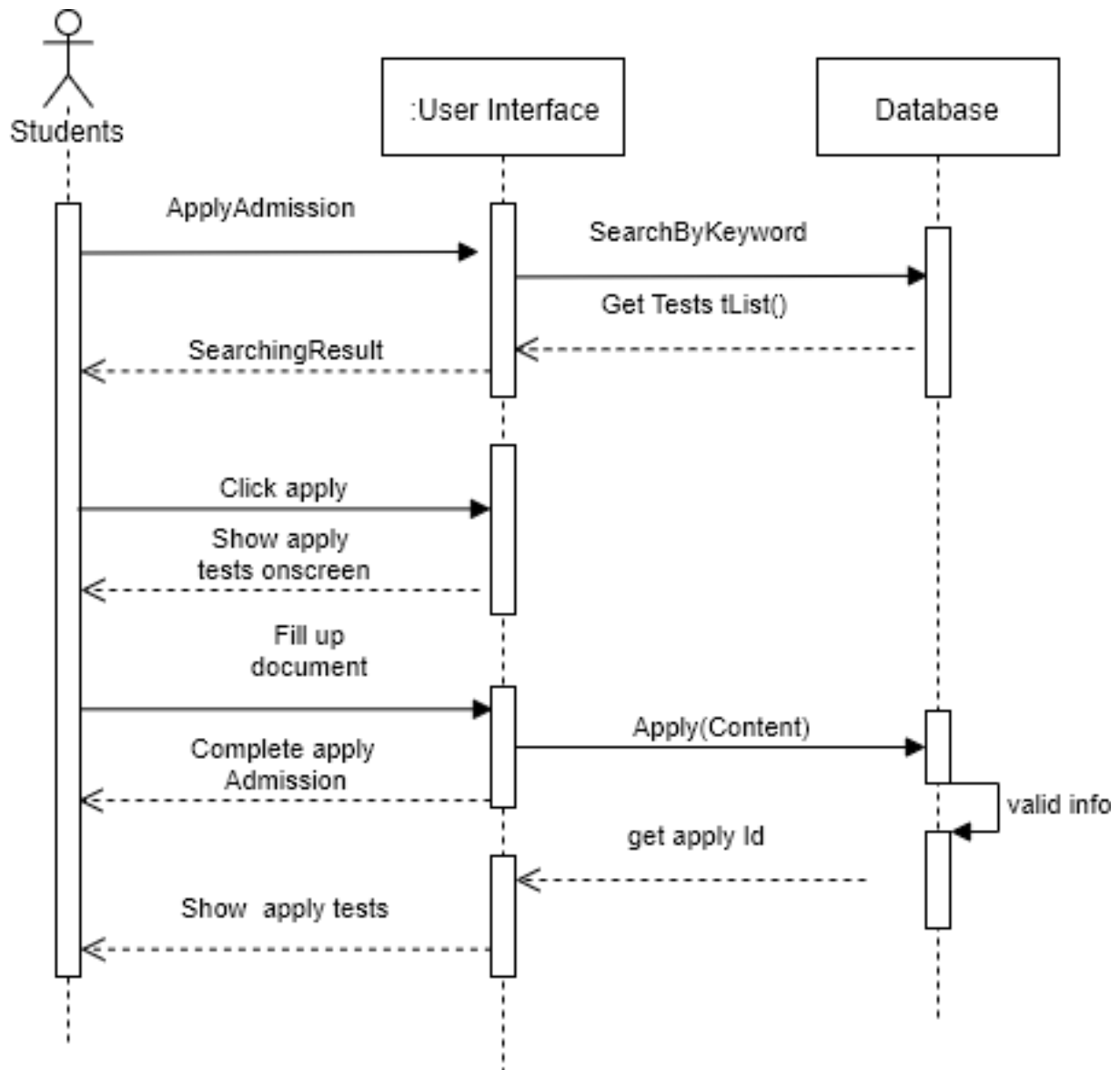


Figure 3.14: Sequence diagram for Apply tests

3.3.5 View admission test

Student can be view admission admission information.

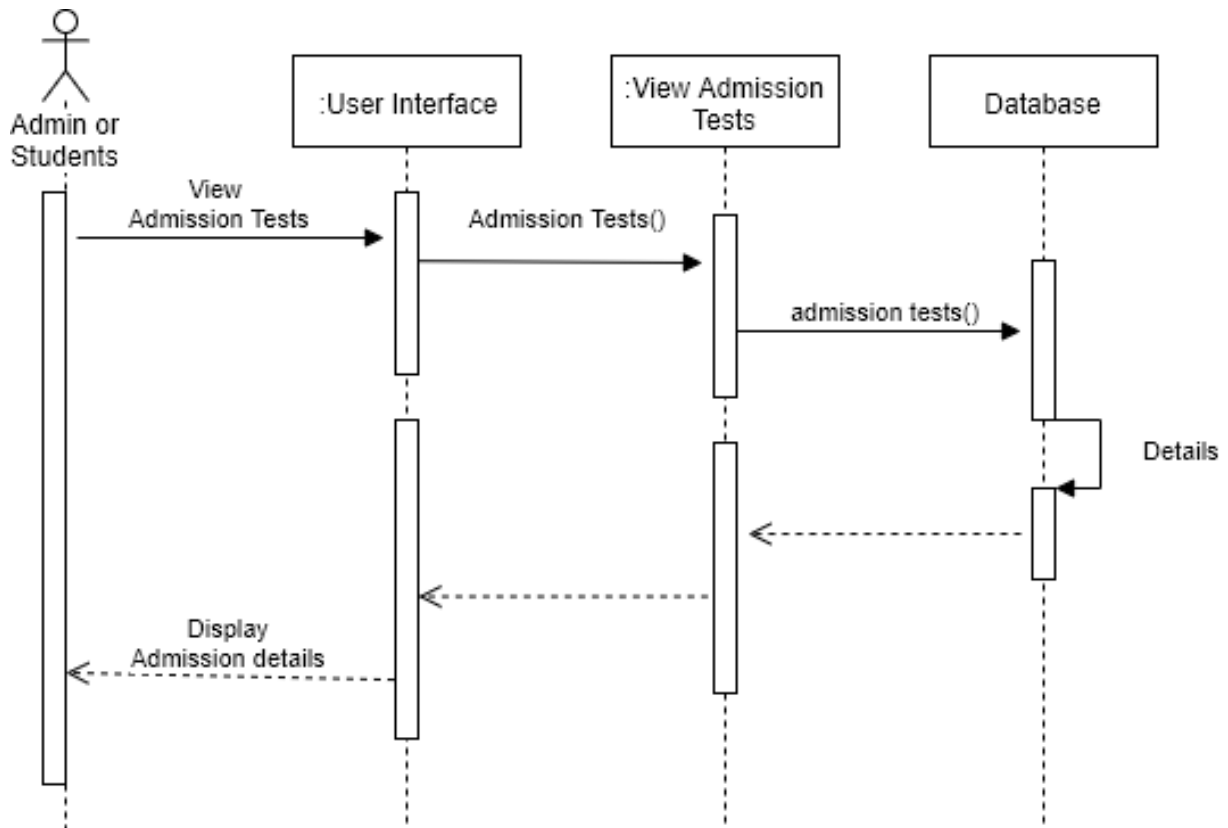


Figure 3.15: Sequence diagram for View Admission tests

3.3.6 View previous test

Student can be view admission admission information.

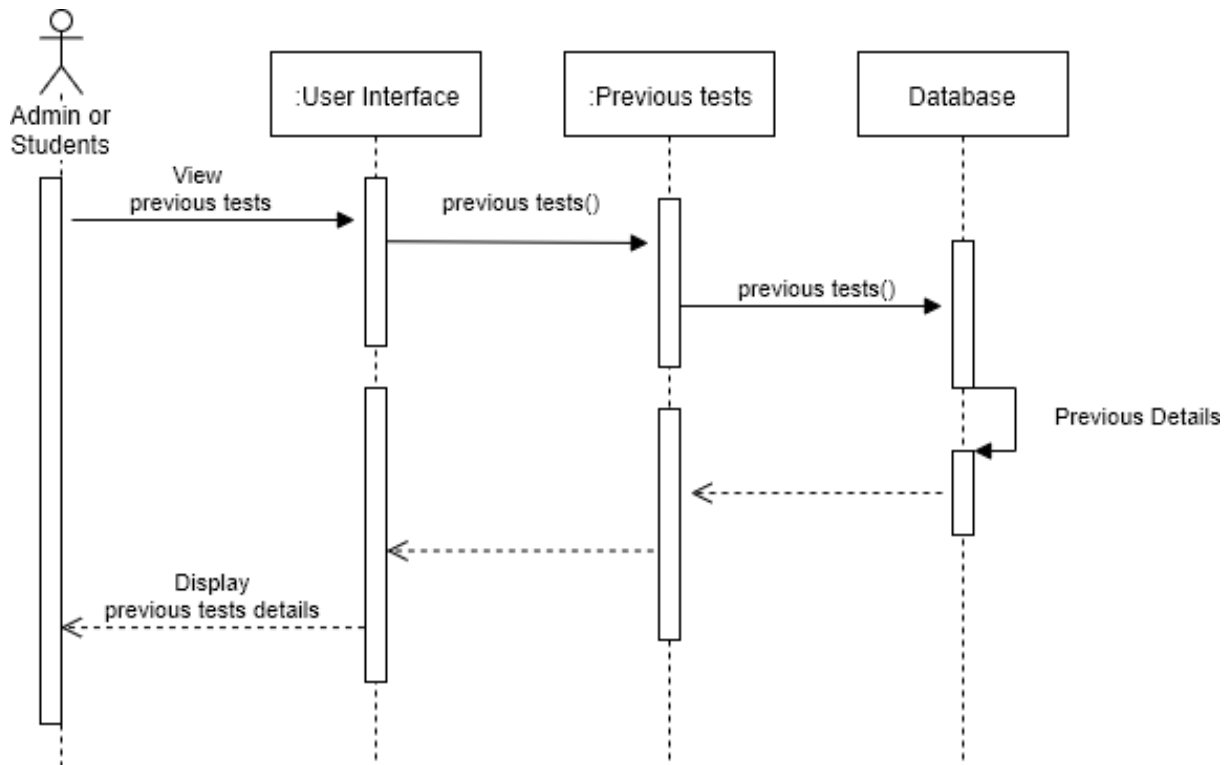


Figure 3.16: Sequence diagram for previous tests

3.3.7 View profile

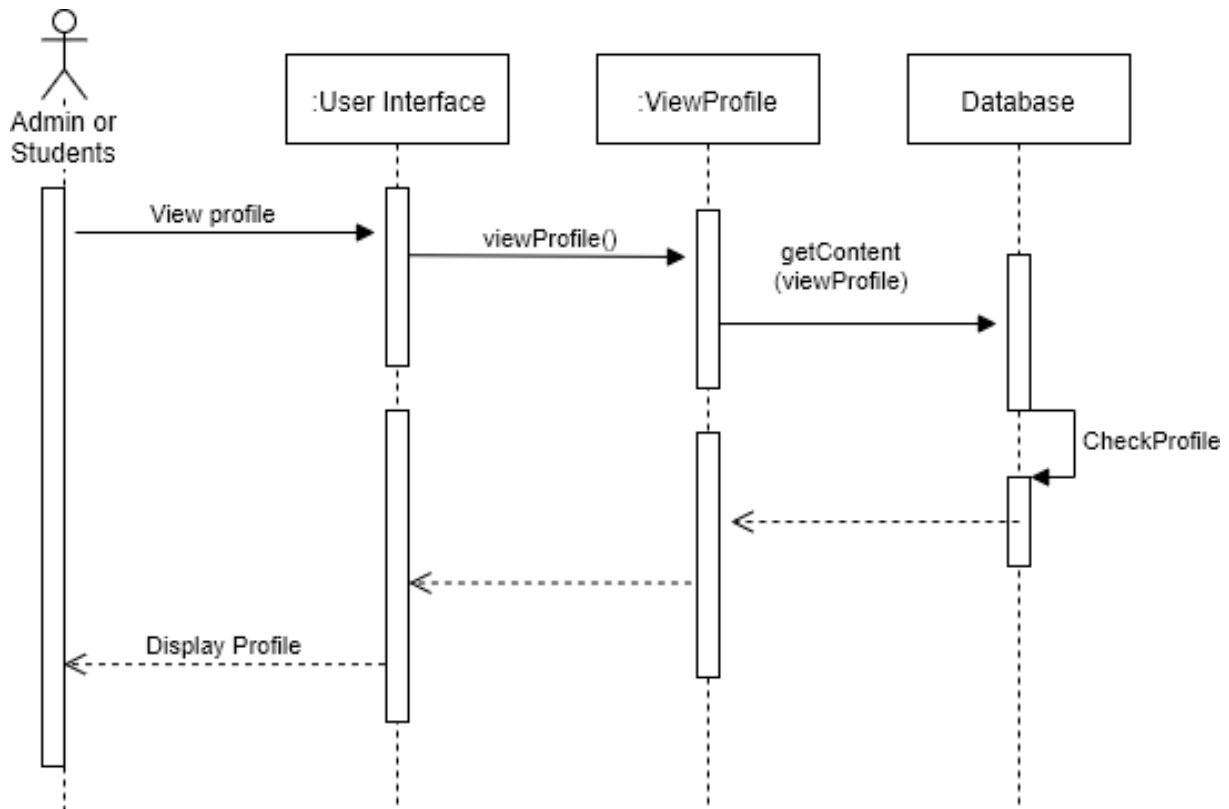


Figure 3.17: Sequence diagram for profile

3.3.8 Update profile

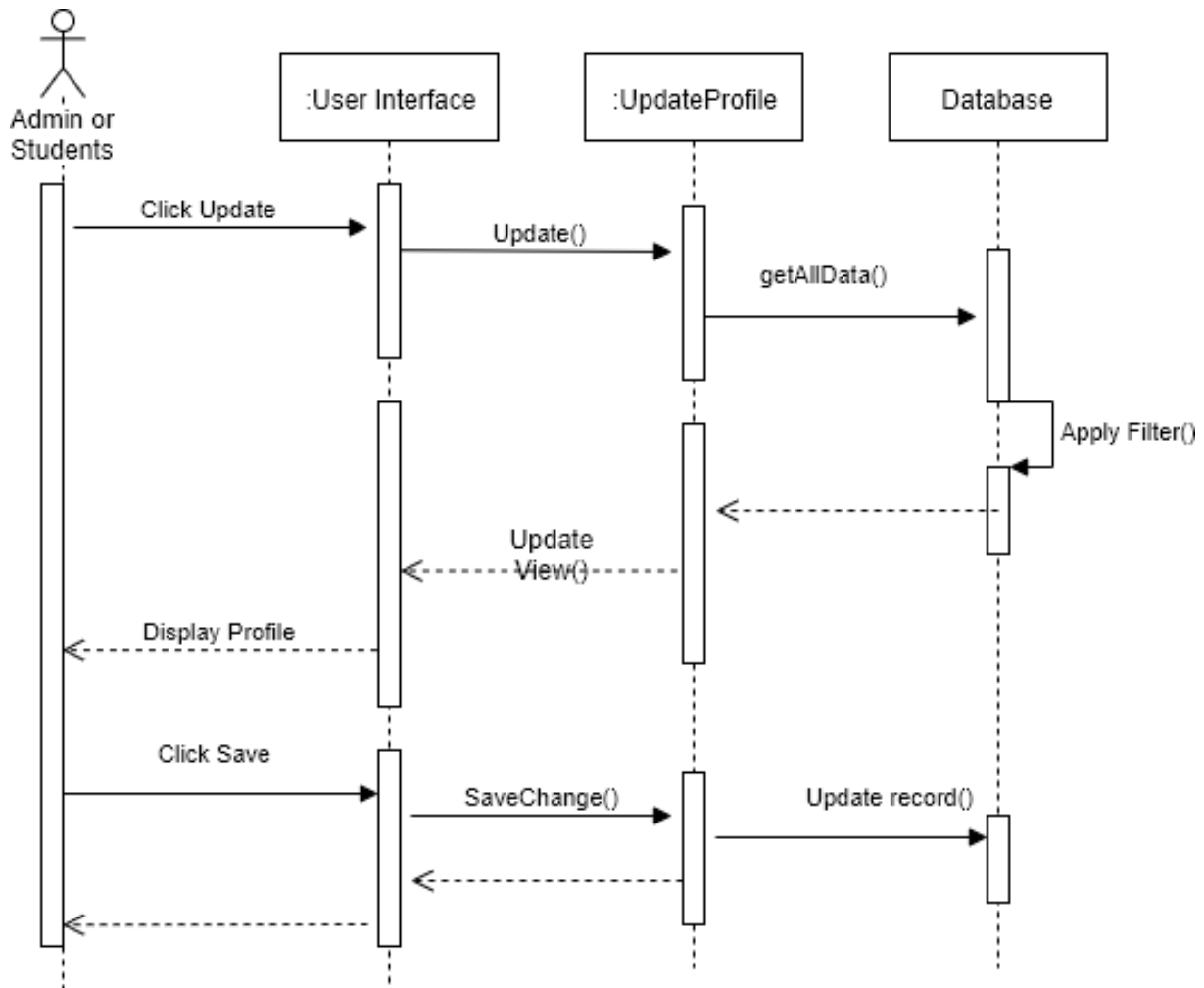


Figure 3.18: Sequence diagram for profile

3.3.9 Delete profile

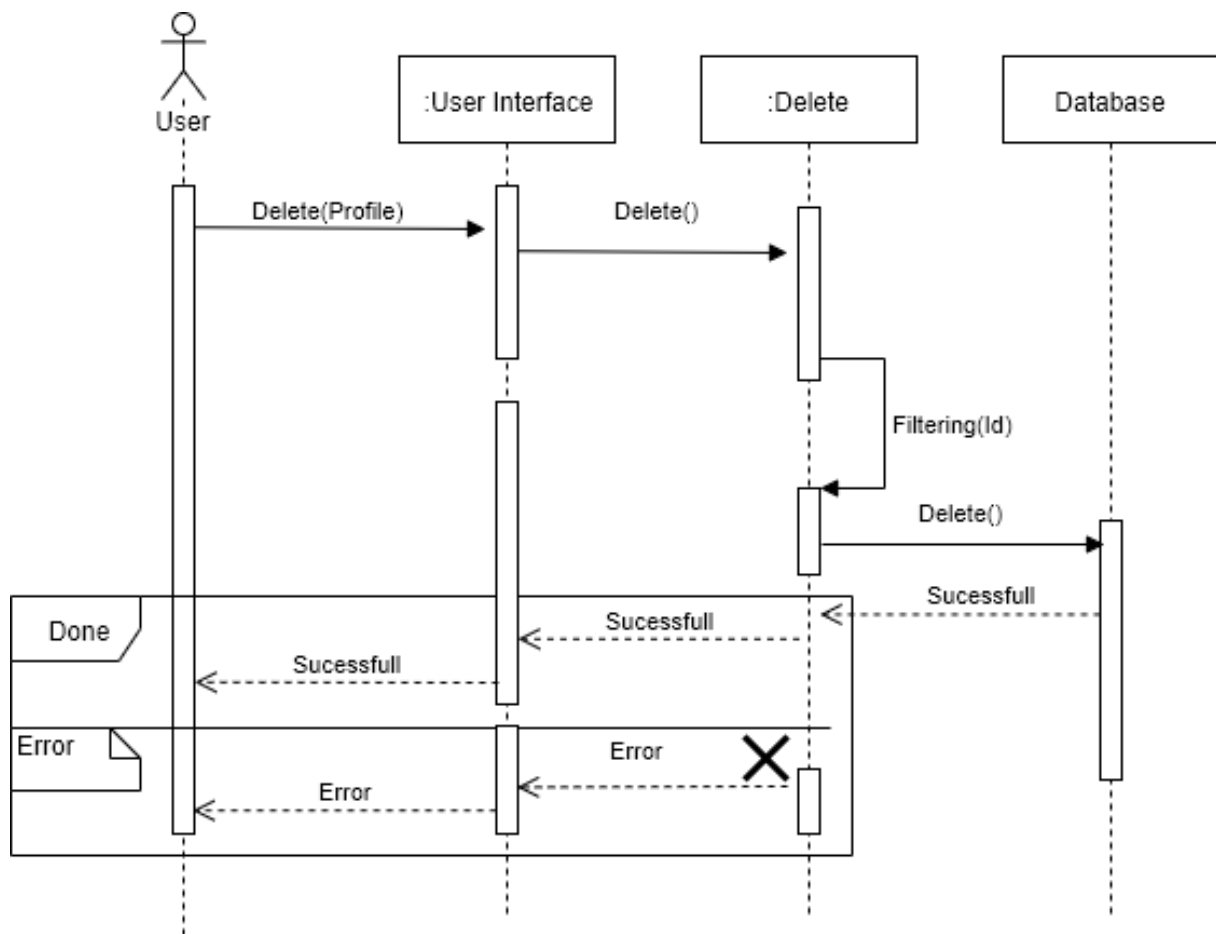


Figure 3.19: Sequence diagram for profile

Chapter 4

System Design Specification

4.1 Class Diagram

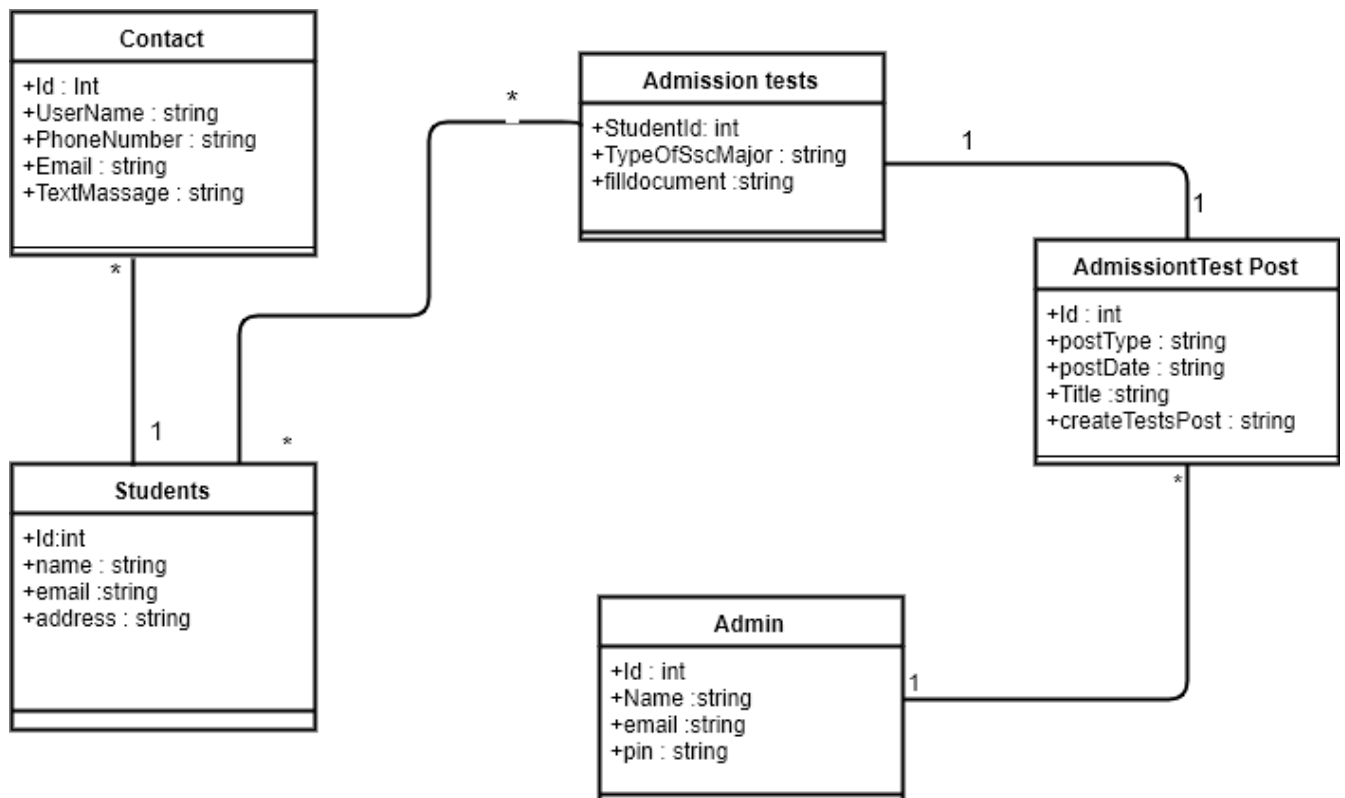


Figure 4.1: Class diagram for "Admission Tests Service"

4.2 Database ER Diagram

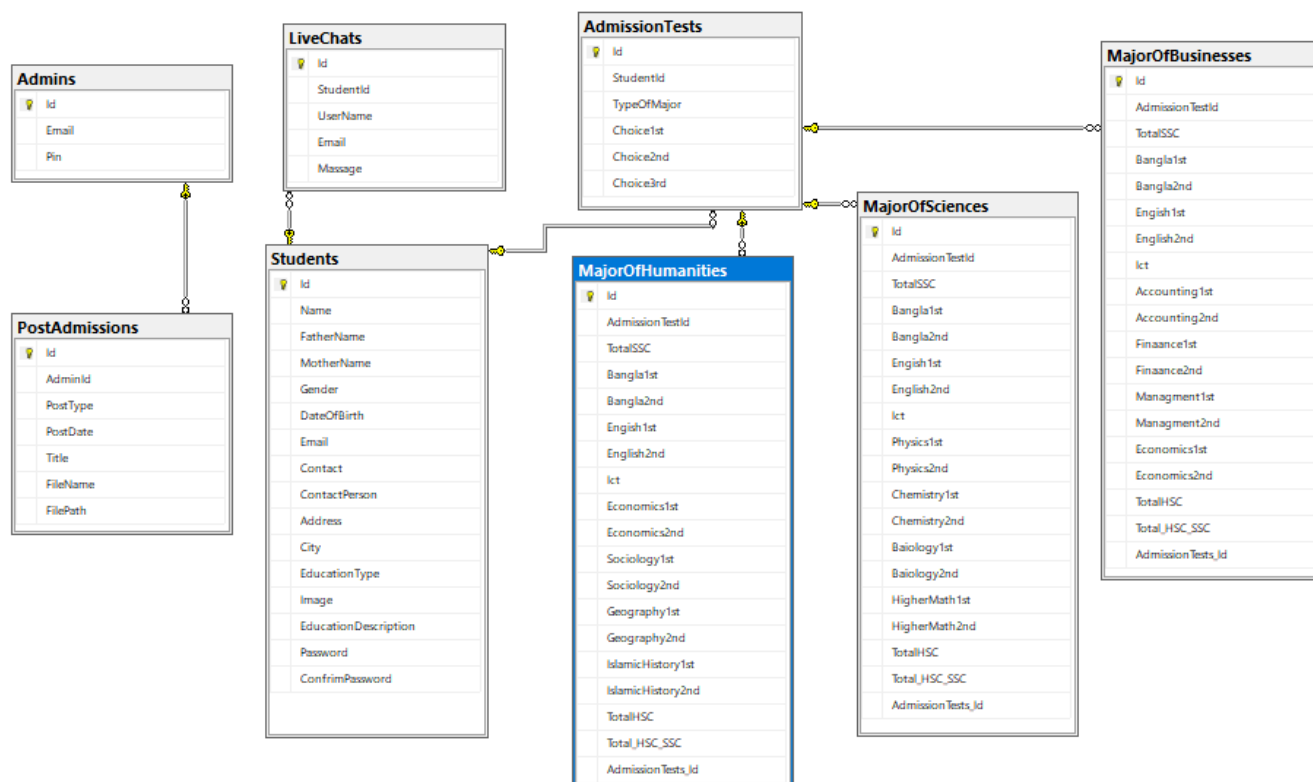


Figure 4.2: Database ER Diagram for "Admission Tests Service"

4.3 Development tools and technology

To develop software some gear are had to be used. And there is too many types of equipment for growing software program. For internet utility developers, there are so many tools and strategies to make the improvement section easy. In my challenge the below equipment we are going to use.

4.3.1 User Interface Technology

A suitable user interface can help to hold the user into the system. The primary point of "UI" in a machine is how clean is to apply and how simple it's miles. "UI" linked the user and gadget. "UI" refers to the shape of content, Action Button, Images, and so forth.

4.3.1.1 Programming Language

ASP.NET MVC5 Framework

ASP.NET MVC 5 is a framework that implements the Model-View-Controller (MVC) architecture pattern. I will be referring to the MVC framework that implements the MVC sample. MVC is an architecture pattern that stands for Model-View-Controller.

My definition of MVC is summarized as follows:

- **Model:** The model manages the records for the utility. Each model commonly represents one or more tables inside a database.
- **View :** The view carries the visible illustration of the software. In websites, this is typically completed with HTML, CSS, and JavaScript.
- **Controller :** A controller updates each model and views. It accepts input and plays the corresponding update. For instance, a controller can replace a model by means of converting the attributes of a person in a online game. It may additionally adjust the view by means of showing the up to date man or woman in the sport.

4.3.1.2 JQuery

JQuery is a JavaScript library. It is a fast JavaScript Library that simplifies HTML document traversing, occasion handling, animating. In our task, we use only a few JQuery capabilities.

4.3.1.3 Bootstrap

In my project, i used bootstrap for the front-stop design. Bootstrap is a free and open source front-stop Web framework. This framework is developed via CSS and JavaScript. It's a browser-friendly framework.

4.3.1.4 CSS

There are many technologies to displaying HTML elements. Html elements can seem in lots of ways. Is goods practice to apply outside CSS. Internal and Inline CSS not for a assignment and it also not an awesome exercise.

4.3.2 Implemented tools and platform

So just like the gadget and generation additionally some systems are wanted to extend software program applications. The task we use a few systems to construct the device. We are using a bellows system and systems.

4.3.3 Editor

Microsoft Visual Studio 2019

With Visual Studio 2019, you may get exceptional-in-class equipment and offerings for any developer, any app, and any platform. Whether you are using Visual Studio for the developing time.

- **Develop:** Stay targeted and productive with progressed performance, on the spot code cleanup, and higher seek outcomes.
- **Collaborate :** Enjoy natural collaboration via a Git-first workflow, real-time editing and debugging, and code opinions right in Visual Studio.
- **Debug :** Highlight and navigate to precise values, optimize reminiscence use, and take automated snapshots of your utility's execution.

4.3.4 Entity Framework

Entity Framework is Object Relational Mapper (ORM). This ORM presents developers to automate the mechanism of storing and gaining access to statistics from the database. I use this framework in my mission.

4.3.5 Database Server

MSSQL Server 2017

SQL is a special-purpose programming language designed to handle data in a relational database management system. A database server is a computer program that provides database services to other programs or computers, as defined by the client-server model. Therefore, a SQL Server is a database server that implements the Structured Query Language (SQL).

4.3.6 Web Server

NET Run-time

A web server is a system that delivers content material or offerings to end-users over the internet. In my project uses the .net Localhost server. This localhost is free and open-source software to .net frameworks. It has many features and a variety of use.

Chapter 5

System Test

5.1 Testing Features

Feature Testing is consult with making adjustments in software program machine to add new capabilities or to make changes existing functions. A take a look at the set is want to write for test the function and function of the device. All feature and feature are not the same.

5.1.1 Feature to be tested

Here,

1 = Low Priority

2 = Medium Priority

3 = High Priority

5.1.1.1 Part of Student

Features	Priority	Description
Apply tests	2	Apply admission tests submit facts have to be inserted properly
See Apply tests	1	Students can capable of view the Apply tests Details
See details	1	Students can capable of view the admission tests Details

5.1.1.2 Part of Admin

Features	Priority	Description
Registration	3	Admin must be authenticated through login
Login	3	Admin must be authenticated through login
Logout	2	The session needs to be destroyed after logout
Post tests	2	Post admission tests submit facts have to be inserted properly
See Post tests	1	Admin can capable of view the post tests Details
See details	1	Admin can capable of view the admission tests Details
View Profile	3	Admin can able to see his profile
Update profile	3	Admin can be update his profile
Delete profile	1	Admin can be delete his profile

5.2 Testing Strategy

Test Strategy is a plan for outlining the trying out technique. It's a guiding principle observed to gain the test goal and execution of test kinds. Test strategy work with check goal, take a look at surroundings, take a look at approach, automation equipment and approach, and hazard evaluation.

5.2.1 Test approach

Test technique means implementation of take a look at method. It defined all take a look at plans and test layout.

Test approach has techniques:

- **Preventative approach:** In the preventative technique, tests are designed before the software program development.
- **Reactive approach:** In Reactive approach, assessments are designed after software program development.

5.2.2 Pass / Fail Criteria

It will set the pass and fail standards.

- If the device crash then it will not be considered as a pass case.
- If any gadgets pass a hundred instances, then it will likely be considered as skip criteria handiest.
- If information can't be displayed to the application properly, then it is also to be taken into consideration as fail criteria.

5.2.3 Testing Schedule

Test Phase	Time
Testing plan create	1 Week
Test specification	2 Week
Unit testing	During development time
Component test	1 Week
Integration testing	1 Week
Validating use cases	1 Week
Testing user interfaces	1 Week
Load testing	1 Week
Performance testing	1 Week
Release to production	1 Week

5.2.4 Trace-ability Matrix

5.2.4.1 Part of Students

Project Manager			Business Analyst Lead		
QA Lead			Target Implementation Date		
BR	Category	Requirement Description	Use Case	Test Case	Comment
BR-1	Functional	Apply for Admission tests	3.1.4	5.4.4	
BR-2	Functional	Admission Service Details	3.1.5	5.4.5	
BR-3	Functional	Previous history	3.1.6	5.4.6	

5.2.4.2 Part of Admin

Project Manager			Business Analyst Lead		
QA Lead			Target Implementation Date		
BR	Category	Requirement Description	Use Case	Test Case	Comment
BR-1	Functional	Create(Profile)	3.1.1	5.4.1	
BR-2	Functional	Login	3.1.2	5.4.2	
BR-3	Functional	Post for Admission tests	3.1.3	5.4.3	
BR-4	Functional	Admission Service Details	3.1.5	5.4.5	
BR-5	Functional	Previous history	3.1.6	5.4.6	
BR-6	Functional	View Profile	3.1.7	5.4.7	
BR-7	Functional	Update Profile	3.1.8	5.4.8	
BR-8	Functional	Delete Profile	3.1.9	5.4.9	

5.3 Testing Environment

Testing environment manner put together the environment that assists in execution the take a look at with software, hardware and network configure. Test mattress or take a look at surroundings is configured as according to the need of the application underneath check.

For construct the environment of testing, a few key location desires to setup:

- Test records
- Database server
- Client's running device
- Front cease jogging environment
- Browser
- System and application
- Network

People are involved with take a look at surroundings setup:

- System Admins

- Developers
- Testers

5.4 Test Cases

The test case method set some regulations and rules which it can be decided whether they may be capable of meet the requirements successfully. The test case method can be to locate the troubles within the requirements or layout of the application.

In the take a look at the case, there have some factors. Such as:

- Test Case ID
- Test Scenario
- Prerequisite
- Test Data
- Expected Result
- Actual Result
- Etc

5.4.1 Create Profile

Test case 1	Test case name: Create Profile			
System : Admin	Subsystem : Student			
Designed by: Md Toriqul Islam	Designed date: 01-December-2019			
Executed by:	Executed date:			
Short description:Admin can create a profile and give it to the scholar owner. Student inputs the device by using this profile.				
Pre-Conditions: <ul style="list-style-type: none">• User type must be a admin.• User must be authenticated.• Admin have admin records.				
Step	Action	Response	Pass/Fail	Comment
1	All required fields aren’t crammed yet	Fields have not been completed yet	Fail	
2	All enter filed is stuffed up by using the scholars	Adding admin is successful	Pass	
Post-Condition : admin profile is created.				

5.4.2 Login

Test case 2		Test case name: Login		
System : Admin		Subsystem : Student		
Designed by: Md Toriqul Islam		Designed date: 01-December-2019		
Executed by:		Executed date:		
Short description: The registered customers need to login to the software And before that our appli- cation will test the authentication and authorization.				
Pre-Conditions: <ul style="list-style-type: none">• Users are constantly redirected to the login web page if they have no longer authenticated with the aid of our utility.• Assume that the email is toriqul.pdap@gmail.com and password is “123456”				
Step	Email and password	Response	Pass/Fail	Comment
1	toriqul@gmail.com and pin ”124876”	Invalid	Fail	
2	toriqul.com@gmail.com and pin ”123456”	Successfully login into the application	Pass	
Post-Condition : Admin will efficaciously login to the utility.				

5.4.3 Post admission test

Test case 3	Test case name:Post Admission tests			
System : Admin	Subsystem :			
Designed by: Md Toriqul Islam	Designed date: 01-December-2019			
Executed by:	Executed date:			
Short description:Admin supplied all required records for admission assessments post then publish the post.				
Pre-Conditions: <ul style="list-style-type: none">• Users must be authenticated.• User type must be Admin.				
Step	Action	Response	Pass/Fail	Comment
1	All required fields are not filled	Invalid	Fail	
2	Filled up all required fields	Post is Successful	Pass	
Post-Condition : Post for admission tests is Successful.				

5.4.4 Apply Admission Tests

Test case 4	Test case name:Apply Admission tests
System : Admin	Subsystem : Student
Designed by: Md Toriquel Islam	Designed date: 01-December-2019
Executed by:	Executed date:
Short description:For follow admission assessments first off scholar need to provide all required information then put up the publish.	
Pre-Conditions: <ul style="list-style-type: none">• Users must be authenticated.• User type must be student.	

Step	Action	Response	Pass/Fail	Comment
1	All required fields are not filled	Invalid	Fail	
2	Filled up all required fields	Post is Successful	Pass	
Post-Condition : Apply for admission tests is Successful.				

5.4.5 View admission tests service

Test case 5		Test case name: View Admission tests		
System : Admin		Subsystem : Student		
Designed by: Md Toriqul Islam		Designed date: 01-December-2019		
Executed by:		Executed date:		
Short description: Admin or student can able to view admission tests details				
Pre-Conditions: <ul style="list-style-type: none">• Users must be authenticated.• User type must be student or admin.				
Step	Action	Response	Pass/Fail	Comment
1	Admission tests details data is shown properly.properly.	All require data is appear	Pass	
Post-Condition : Admission assessments statistics is displaying to Admin or student.				

5.4.6 View Previous history

Test case 6		Test case name: View Previous Admission tests		
System : Admin		Subsystem : Student		
Designed by: Md Toriqul Islam		Designed date: 01-December-2019		
Executed by:		Executed date:		

Short description: Admin can able to view admission tests details				
Pre-Conditions: <ul style="list-style-type: none"> • Users must be authenticated. • User type must be admin. 				
Step	Action	Response	Pass/Fail	Comment
1	Admission tests details data is shown properly.properly.	All require data is appear	Pass	
Post-Condition : Admission assessments statistics is displaying to Admin .				

5.4.7 View Profile

Test case 8	Test case name:View Own Profile
System : Admin	Subsystem : Student
Designed by: Md Toriqul Islam	Designed date: 01-December-2019
Executed by:	Executed date:
Short description: Admin and scholar as their very own profile and they could view their own profile	
Pre-Conditions: <ul style="list-style-type: none">• Users must be authenticated.• User type must be admin.• Admin have a profile	

Step	Action	Response	Pass/Fail	Comment
1	Profile is not showing.	There is no pro- file to appear	Fail	
2	Profile is showing	Profile is appear	Pass	

Post-Condition : Displaying to Admin can able to view his personal profile

5.4.8 Update Profile

Test case 9		Test case name:Update Profile		
System : Admin		Subsystem : Student		
Designed by: Md Toriqul Islam		Designed date: 01-December-2019		
Executed by:		Executed date:		
Short description: Admin and student has their personal profile, and they could view their personal profile				
Pre-Conditions: <ul style="list-style-type: none">• Users must be authenticated.• User type must be admin.• Admin and student have a profile				
Step	Action	Response	Pass/Fail	Comment
1	All required fields are not filled yet.	Fields have not been completed yet	Fail	
2	All input filed is filled up by the apartment owner	The fields have been completed and the post also	Pass	
Post-Condition :Admin edited their own profile				

5.4.9 Delete Profile

Test case 10		Test case name:Delete Profile		
System : Admin		Subsystem : Student		
Designed by: Md Toriqul Islam		Designed date: 01-December-2019		
Executed by:		Executed date:		
Short description:Admin go to their profile, delete the profile.				
Pre-Conditions: <ul style="list-style-type: none">• Users must be authenticated.• User type must be or admin.• Admin and have a profile				
Step	Action	Response	Pass/Fail	Comment
1	Go to profile and hit the “Delete” button.	The profile is delete	Pass	
Post-Condition :Admin delete their own profile				

Chapter 6

User Manual

6.1 Home page (University Admission Guideline)

Each man or woman wants to get hold of the pleasant of training to gain his or her goals. The internet site offers a large array of instructional alternatives to scholars from conventional to contemporary studies. The moment a pupil opens this internet site, he's certain to get sucked into the range of publications to be had in his topic of interest.

Now I will offer screenshots of the web page.

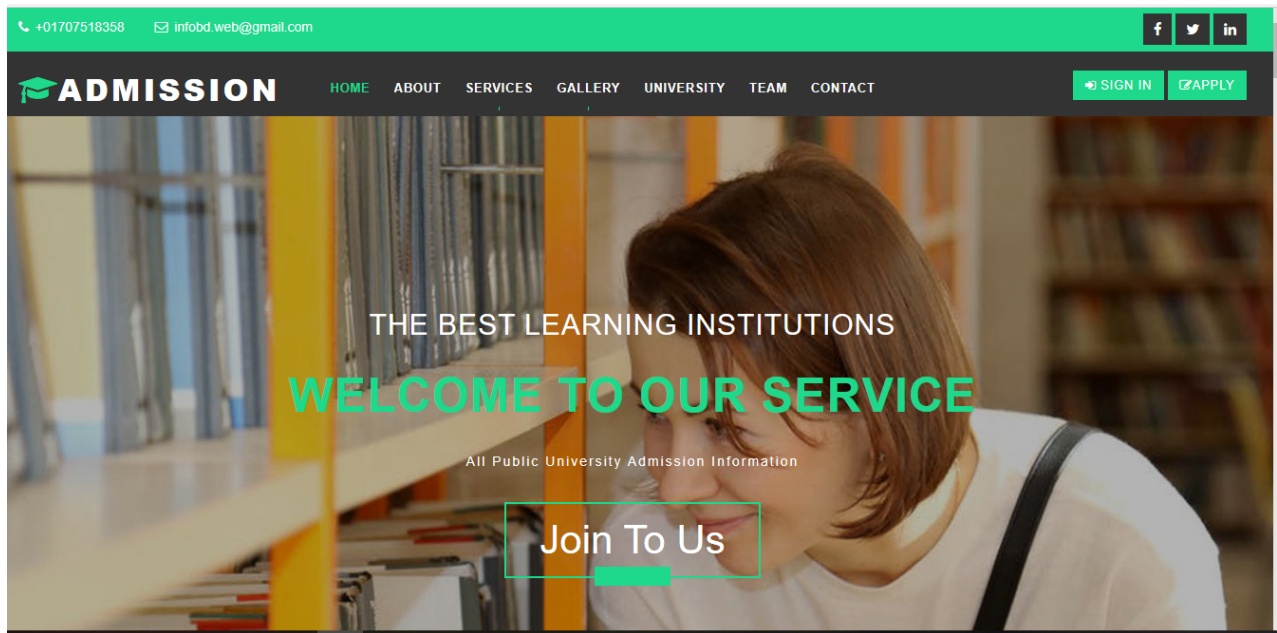


Figure 6.1: University Admission Guideline

6.2 Create Profile

Users have no longer signed up before. Then, to start with, he has to register in our utility. The user ought to log in first to get access to our utility. The admin will provide verify the user with an email and password through which the consumer can access the machine.

Now I will offer screenshots of the web page.

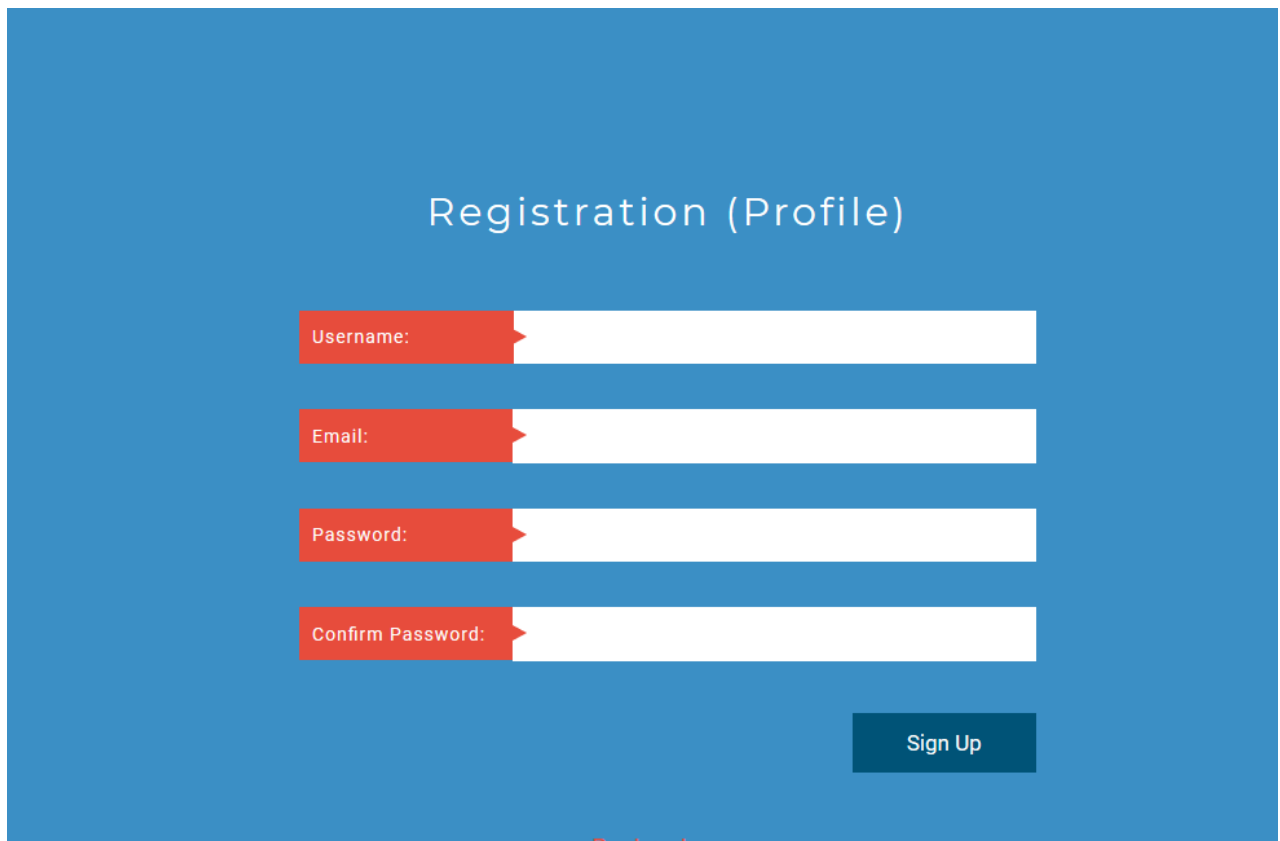
A screenshot of a web registration form titled "Registration (Profile)" on a blue background. The form contains four input fields, each with a red label box on the left: "Username:", "Email:", "Password:", and "Confirm Password:". To the right of these fields is a dark blue "Sign Up" button. At the bottom center, there is a faint red link that says "Back to home".

Figure 6.2: Admin Registration form

6.3 Login Profile

First of all, the administrator has to login to the software to use this software. Administrators and college students should log in to the device the usage of electronic mail and password. User type must be admin or student, who is registering on the application only the candidate login on the site. and also that registering person will be given on the next educative relative information from this application.

Now I will offer screenshots of the web page.

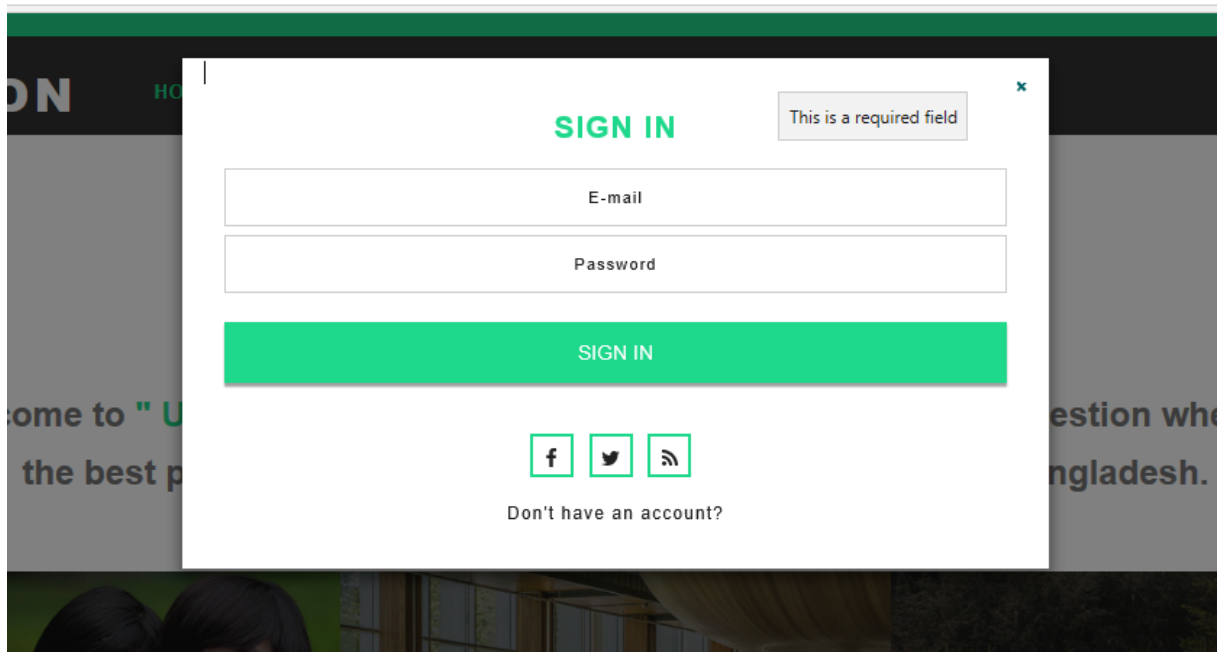


Figure 6.3: login form

6.4 Admin Profile

Admin can capable of see their own profile. Admin can be edit, replace delete there profile and additionally that admin can post-admission check. Admin can delete any user account,all activity can also seeing admin.Admin can be assessment all hobby, and the admin approve on all statistics authentication.

Now I will provide the screenshot of the page below.

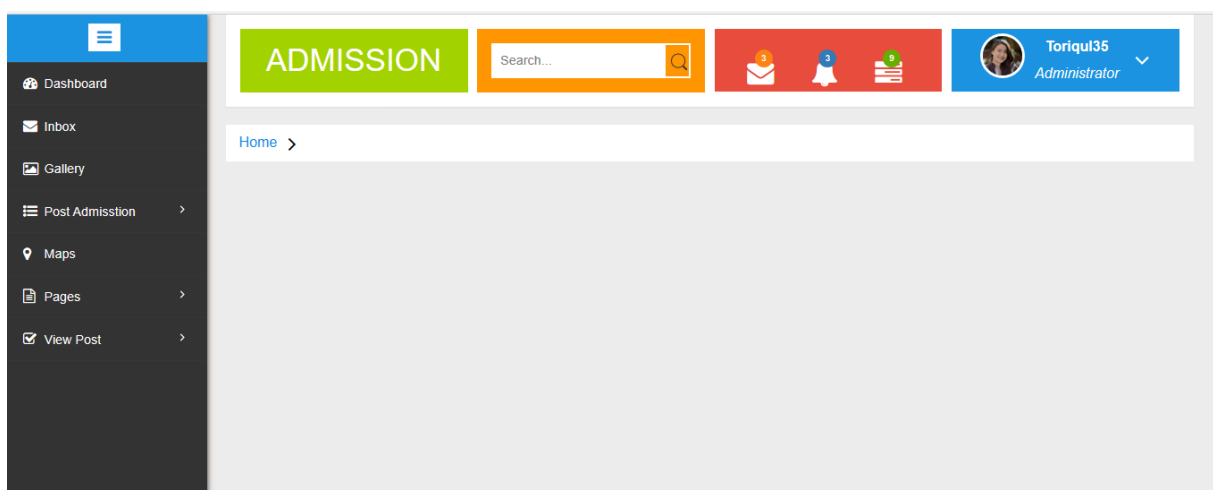


Figure 6.4: Admin Profile Page

6.5 Apply admission tests

Any student can practice for admission exams. For post the admission exams they need to offer some statistics. The website online offers to some assisting statistics on first-rate places for study.

Now I will provide screenshots of the page beneath.

Please fill Out Carefully for Admission

Full Name *	<input type="text" value="Enter your full Name ?"/>	
Father Name *	<input type="text" value="Your father name ?"/>	
Mother Name *	<input type="text" value="Your mother name ?"/>	
Date of Birth *	<input type="text" value="--Select--"/> <input type="text" value="--Select--"/> <input type="text" value="Enter Year"/> Day Month Year	
Gender *	<input type="text" value="--Select--"/>	
E-Mail Address *	<input type="text" value="Enter your email address?"/>	
Cell Number *	<input type="text" value="Your mobile number ?"/> Mobile	<input type="text" value="Optional"/> Telephone
Address *	<input type="text" value="Street line 1 ?"/> Street Address	<input type="text" value="Street line 2 ?"/> Street Line 2
	<input type="text" value="Name of City ?"/> City	<input type="text" value="Name of Area ?"/> State / Province
	<input type="text" value="Area Code ?"/> Postal / Zip Code	<input type="text" value="Your Country ?"/> Country

Figure 6.5: Apply admission form

6.5.1 For Business Administration Student

Any student can practice for admission exams. For post the admission exams they need to offer some statistics. Now I will provide screenshots of the page beneath.

The screenshot displays a web application interface for 'University Admission Tests' under the 'Faculty Of Business Studies'. On the left is a dark sidebar with a 'PROFILE' header and a menu containing 'Dashboard', 'Admission test', 'Data Tables', 'University', 'Mail', and 'Maps'. The main content area has a light purple header with the title 'University Admission Tests' and 'Faculty Of Business Studies'. Below this, the form is titled 'Subject of HSC Business Studies' in red. It is organized into two columns. The left column contains input fields for 'Total SSC Number *', 'Bangla 1st Paper *', 'English 1st Paper *', 'Accounting 1st Paper *', 'Finaance 1st Paper *', 'Managment 1st Paper *', and 'Marketing 1st Paper *'. The right column contains a 'Date of Today' field, followed by input fields for 'Bangla 2nd Paper *', 'English 2nd Paper *', 'Accounting 2nd Paper *', 'Finaance 2nd Paper *', 'Managment 2nd Paper *', and 'Marketing 2nd Paper *'. All input fields are white with red borders and red asterisks indicating required fields.

Figure 6.6: Apply admission form

6.5.2 For Business Humanities Student

Any student can practice for admission exams. For post the admission exams they need to offer some statistics. Now I will provide screenshots of the page beneath.

The screenshot displays a web application interface for 'University Admission Tests' under the 'Faculty Of Humanities'. On the left is a dark sidebar with a 'PROFILE' header and a menu containing 'Dashboard', 'Admission test', 'Data Tables', 'University', 'Mail', and 'Maps'. The main content area has a light purple background. At the top, it says 'University Admission Tests' and 'Faculty Of Humanities'. Below this, there are two columns of input fields. The left column is titled 'Subject Marks of HSC Humanities' and contains seven fields: 'Total SSC Number *', 'Bangla 1st Paper *', 'English 1st Paper *', 'Accounting 1st Paper *', 'Sociology 1st Paper *', 'Geography 1st Paper *', and 'IslamicHistory 1st Paper *'. The right column is also titled 'Subject Marks of HSC Humanities' and contains seven fields: 'Date of Today', 'Bangla 2nd Paper *', 'English 2nd Paper *', 'Economics 2nd Paper *', 'Sociology 2nd Paper *', 'Geography 2nd Paper *', and 'IslamicHistory 2nd Paper *'. All fields are represented by white text boxes on a dark purple background.

Figure 6.7: Apply admission form

6.6 Our Service

we provide some information for admission tests University in Bangladesh. Who follows this way I will provide the best place for his requirement. we announce to SMS or mail.

Now I will provide screenshots of the page beneath.

OUR SERVICES



Time of Admission

- 01 Provided to suggestion where is the best place.
- 02 Online place student can apply admission over all public university.
- 03 Building communication between the student and informer teachers.
- 04 We provide bus service in admission test schedule

Time of over all

- 01 Admission test attend can be who have minimum required
- 02 We Notice that admission time Schedule
- 03 You see here public universities, admission information
- 04 We are going to provide overview all of public university admission information.

Figure 6.8: All service

6.7 Our location

Any student may be the live chat for helping facts about university admission tests. We awareness at the satisfactory location for college study, this information depends on his previous academic result.

Now I will provide screenshots of the page beneath.



Figure 6.9: Location details

Chapter 7

Conclusion

7.1 Git Repository Link

7.1.1 GitHub Link :

[<https://github.com/Toriqul35/UniversityAdmissionHelp>]

This is a git repository link which my project uploaded. Anyone can see all work activity, I use to asp.net MVC and also use to Entity framework. my work station is for the editor Visual Studio 2019 localhost server. if any person interested in the application who can also follow my pattern.

7.1.2 GitLab Link:

<https://gitlab.com/Toriqul35/webapplication04>

7.2 Critical Evolution

I have started the development part in February. Like any other project, you have to put your very hard working, patience, dedication, and concentration to complete the project. There are many factors comes to when a project going to the development phase, such as fulfilling the stakeholder requirements properly, etc.

A right necessities evaluation then it enables the development phase plenty. We analysis the necessities of our task first off then we are going to the subsequent step design specification

It's not an easy mission to finish the mission however if it to be completed then the project isn't the and in reality. The database is an important component in any utility machine. That's why inside the subsequent step we're focusing to create the database layout.

7.3 Limitations

For growing this assignment, I have faced a few boundaries. Now I will describe those in brief.

- **Payment Method :**In this utility, there aren't having any price methods directly. So the user can't make any fee transaction through our system.
- **Only Web Version:** My application is the most effective internet-based device.

7.4 Obstacles Achievements

When a challenge is developing you then have faced many barriers and people's boundaries create demanding situations and you've to overcome those demanding situations. Without challenges you may examine whatever, the project comes with opportunity and right here your change to grave this possibility.

The gadget analysis and database design that we research nicely by way of doing this assignment. Our supervisor helps us in each step of this venture. Also, there are a few boundaries and achievement in our assignment and that is below:

- **Requirements getting from stakeholders :**There are many varieties of stakeholders on this machine and everybody has one-of-a-kind functionality. It would be higher if we should accumulate requirements from them directly.
- **Scope Change:**When we test the necessities then some functions have been introduced and a few of functions get slicing. When it was wanted we did brainstorming for that

7.5 Future Scope

I learned lots even as finishing this project. To construct and improve this undertaking, I have met a few University in Bangladesh and fanatics. I thank all of them very plenty.

- All Bangladeshi University included this application.
- Bus transport service on admission schedule for student.
- Admission assessments result published who sign up within the application.

7.6 References

I have received some information from some platforms. Obviously I will point out those references. For making my mission a success those assets assist me plenty.

Not I will point out the names underneath.

In-text example

- Code Editors¹
- Font design²
- Database Controllers³
- Bootstrap Help in the project⁴
- Database Server⁵
- Font design of CSS⁶
- MVC .net Framework⁷
- Entity Framework⁸
- Report Writing⁹
- Layout using this project¹⁰

Footnote example:

¹ Visual studio,<https://visualstudio.microsoft.com/vs-2019>

²<https://www.w3schol.com>

³<https://www.nuget.org/profiles/Microsoft>

⁴Bootstrap,<https://getbootstrap.com/docs/4.0/getting-started/introduction/>

⁵ SQL Server,<http://www.sqlservertutorial.net>

⁶<https://www.w3schol.com>

⁷Model View Controller ,<https://www.tutorialsteacher.com/mvc/mvc-controller>

⁸ <https://www.entityframeworktutorial.net>

⁹ Latex, <https://www.overleaf.com/project>

¹⁰Layout, <https://w3layouts.com/>