

Irfan Plagiarism report

by Muhammad Irfan

Submission date: 12-Dec-2022 01:41PM (UTC+0500)

Submission ID: 1978954942

File name: FYP_Final_Report.docx (945.92K)

Word count: 5115

Character count: 27370



BSCS-S22-008

03-134191-014 MUHAMMAD IRFAN

Edu Scholarship

¹
In partial fulfilment of the requirements for the degree of
Bachelor of Science in Computer Science

Supervisor: Munaza Sher

Department of Computer Sciences
Bahria University, Lahore Campus

June 2022

Certificate



We accept the work contained in the report titled
“Edu Scholarship”
written by
MUHAMMAD IRFAN

as a confirmation to the required standard for the partial fulfilment of the degree of
Bachelor of Science in Computer Science.

Approved by:

Supervisor: Munaza Sher

(Signature)

June 17, 2022

DECLARATION

I hereby declare that this project report is based on my original work except for citations and quotations which have been duly acknowledged. I also declare that it has not been previously and concurrently submitted for any other degree or award at Bahria University or other institutions.

Enrolment	Name	Signature
03-134191-014	Muhammad Irfan	

Date : December 7, 2022

1
Specially dedicated to
my beloved grandmother, mother and father
(MUHAMMAD IRFAN)

ACKNOWLEDGEMENTS

I would like to thank everyone who had contributed to the successful completion of this project. I would like to express my/our gratitude to my research supervisor, Madam Munaza Sher for her invaluable advice, guidance and her enormous patience throughout the development of the research.

In addition, I would also like to express my gratitude to my loving parent and friends who had helped and given me encouragement.

MUHAMMAD IRFAN

Edu Scholarship

ABSTRACT

Scholarship is a critical tool to facilitate education for eligible students, especially those who want to work in a specific field of study but are socially and economically challenged in the state and bring them on to the mainstream development track. In Pakistan, there are a large number of scholarships offered by the different private, government, semi-government sectors, firms and even individuals for students, like merit-based or need-based or a specific field of the research area etc. But the requirements of all scholarships are changed on the bases of the nature of the scholarship. It is a difficult and time-consuming process to understand all scholarships and then find your required scholarship. The proposed system will provide an effective platform for students and scholarship donors. The search and avail scholarship opportunities for students according to requirements will be simplified. Donors also can create a scholarship post with detailed required parameters. The proposed system is designed using off-the-shelf and open-source software engineering models and programming tools and database models.

TABLE OF CONTENTS

DECLARATION	ii
ACKNOWLEDGEMENTS	iv
ABSTRACT	v
TABLE OF CONTENTS	vi
LIST OF TABLES	x
LIST OF FIGURES	xi
 CHAPTERS	
1 INTRODUCTION	1
1.1 Background	1
1.2 Problem Statements	2
1.3 Aims and Objectives	2
1.4 Scope of Project	2
 2 SOFTWARE REQUIREMENTS SPECIFICATION	3
2.1 User Classes and Characteristics	3
2.1.1 Scholarship seeker	3
2.1.2 Scholarship provider	3
2.1.3 Administrator	3
2.2 Operating Environment	4
2.3 Design and Implementation Constraints	4
2.4 Assumptions and Dependencies	5
2.5 External Interface Requirements	5
2.6 Use Case Diagrams:	5

2.6.1	System use case diagram	6
2.6.2	Register use case diagram	7
2.6.3	Login use case diagram	8
2.6.4	Post Scholarship use case diagram	9
2.6.5	Apply for Scholarship use case diagram	10
2.7	Use Case Description Table	11
2.7.1	Register	11
2.7.2	Login	12
2.7.3	View Scholarships	13
2.7.4	Apply Scholarship	14
2.7.5	Post Scholarship	15
2.7.6	View Applied Applicant	16
2.7.7	Manage Users	17
2.7.8	Authentication	18
2.8	System Requirement Chart	19
2.9	Other Non-functional Requirements	20
2.9.1	Performance Requirements	20
2.9.2	Security Requirements	20
2.9.3	Software Quality Attributes	21
2.9.4	Other Requirements	21
3	DESIGN AND METHODOLOGY	22
3.1	Domain Model	22
3.2	Sequence Diagram	23
3.2.1	User Registration	23
3.2.2	Student Login	24
3.2.3	Scholarship Provider Login:	25
3.2.4	Admin Login	26
3.2.5	Apply for Scholarship	27
3.2.6	Post Scholarship	28
3.2.7	Applied Candidates:	29
3.2.8	Admin	30
3.3	Class Diagram	30

3.4	Entity Relationship Diagram	32
3.5	Methodology	33
4	DATA AND EXPERIMENTS	35
4.1	Languages used for Implementation:	35
4.1.1	Python:	35
4.1.2	HTML:	35
4.1.3	CSS:	36
4.1.4	JavaScript:	36
4.2	Framework:	36
4.2.1	Django:	37
4.2.2	Bootstrap:	37
4.3	Database:	37
4.3.1	SQLite:	37
4.4	Tools used for Implementation:	38
4.4.1	VS code:	38
4.4.2	Adobe XD:	38
4.4.3	Draw.io:	38
5	RESULTS AND DISCUSSIONS (or USER MANUAL)	39
5.1	Overview	39
5.2	Application Prototype:	39
5.2.1	Home Page	39
5.2.2	Login Student	39
5.2.3	Register Student	40
5.2.4	Login Provider	40
5.2.5	Register provider	40
5.2.6	Login Admin	40
5.2.7	User Profile	41
5.2.8	Apply Scholarship	41
5.2.9	View All Scholarship	41
5.2.10	Login Provider	41
5.2.11	View detail of Scholarship	42

5.2.12	Post Scholarship	42
5.2.13	View Applied Candidate	42
5.2.14	Admin Home	42
5.2.15	Authentication	42
6	CONCLUSION AND RECOMMENDATIONS	44
6.1	Project Achievements	44
6.2	Future Work	45
6.3	Implementation Issues and Challenges	45
6.3.1	Conclusion	45
REFERENCES		47

LIST OF TABLES

TABLE	TITLE	PAGE
Table 1: Operation Environment		4
Table 2: Register		11
Table 3: Login		12
Table 4: View Scholarship		13
Table 5: Apply Scholarship		14
Table 6: Post Scholarship		15
Table 7: Applied Candidate		16
Table 8: User Management		17
Table 9: Authentication		18
Table 10: System Requirement		19

1 LIST OF FIGURES

FIGURE	TITLE	PAGE
Figure 1: System Use Case		6
Figure 2: Register Use Case		7
Figure 3: Login Use Case		8
Figure 4: Post Use Case		9
Figure 5: Apply Use Case		10
Figure 6: Domain Model		22
Figure 7: User Registration		23
Figure 8: Student Login		24
Figure 9: Scholarship Provider Login		25
Figure 10: Admin Login		26
Figure 11: Apply for Scholarship		27
Figure 12: Post Scholarship		28
Figure 13: Applied Candidates		29
Figure 14: Admin		30
Figure 15: Class Diagram		31
Figure 16: Entity Relationship Diagram		32
Figure 17: FDD[1]		34
Figure 18: Computer User		39

Figure 19: Computer User	40
Figure 20: Computer User	40
Figure 21: Computer User	40
Figure 22: Computer User	40
Figure 23: Computer User	40
Figure 24: Computer User	41
Figure 25: Computer User	41
Figure 26: Computer User	41
Figure 27: Computer User	42
Figure 28: Computer User	42
Figure 29: Computer User	42
Figure 30: Computer User	42
Figure 31: Computer User	42
Figure 32: Computer User	43

CHAPTER 1

INTRODUCTION

1.1 Background

It is observed that we are living in an electronic world. In Pakistan it very difficult to manage the overall educational system the main reason behind the scene is we are not digitalized our system according to the modern world. Scholarships or financial aid is an important part of the education.

It's an understatement to say that managing scholarship programs can be tedious and time-consuming, not just for administrators of the programs, but for applicants too. When it comes to the process of finding the right applicant for the scholarship from different sources, there are plenty of challenges every step of the way. Students may also skip many of the scholarship programs due to the lack of information.

Our proposed system is a web application that will represent an effective online-based platform for students and scholarship providers. The proposed system provides the feature to the students can search and avail opportunities according to needs will become more efficient process. Donors can create a scholarship post with detailed required parameters.

1.2 Problem Statements

Scholarships plays an important role to build the future of students who cannot bear the educational expenses. But the process of winning the scholarships is not too much easy most of the students unable to secure their scholarships just because of lack of information about the scholarship process and not much clear information.

There are several scholarships, offered by associations, non-profit organizations, private corporations and firms and even individuals. But the donors of the scholarships is worried about that the provided scholarships is not in the right hands or it is difficult to find sources where to announce the scholarships.

1.3 Aims and Objectives

Following are the main objectives of this project:

- i) To provide a platform that will be easy to use and save time
- ii) To notify relevant scholarships
- iii) To apply by easy apply service
- iv) To increase awareness and opportunities about scholarships on a platform
- v) To provide scholarship detail by the Scholarship donor

1.4 Scope of Project

Our proposed system will provide a platform for both students and scholarship donors. Where donors can easily describe their scholarship posts and students can apply for the various scholarships according to their needs. Our proposed system will work in a way that every student will make a profile according to his need like a student need a scholarship for merit-based, need-based or a specific field of the research area etc. When a scholarship provider proposed a scholarship then it will give detailed parameters in the system, then the system will cross-check these parameters with student profile parameters and notify relevant students by a notification. Students can avail the opportunity of the scholarship by applying easily on the website. After the candidate who applied for it, the information regarding it will be sent directly to the provider of the scholarship.

CHAPTER 2

SOFTWARE REQUIREMENTS SPECIFICATION

2.1 User Classes and Characteristics

This software is created for three user classes:

- i) Scholarship seeker (Students)
- ii) Scholarship Provider
- iii) Administrator

2.1.1 Scholarship seeker

Any scholarship seeker (student) can be able to perform the following activities:

- Student can Register/sign-in into the application
- Student can maintain his/her profile
- Student can view the listed scholarships
- Student can apply on scholarship portal

2.1.2 Scholarship provider

Scholarship provider can be able to perform the following activities:

- Scholarship provider can Register/sign-in into the application
- Scholarship provider can post of new scholarship after getting approval from the admin
- Scholarship provider can view the details about applied applicant

2.1.3 Administrator

An admin can be able to perform the following activities:

- Admin can sign-in into the application
- Admin has all the control of application
- Admin maintain the client and job seeker database
- Admin can authorize the scholarships provider

1 2.2 Operating Environment

While design and developing this platform, there are following hardware and software requirements

Table 1: Operation Environment

Name	Description
Operating system	Windows, Linux
Browsers	Google Chrome 77.0.3865.120, Firefox 94, Microsoft Edge 86.0.622.63 and Internet explorer 11
Language	Html, CSS, Bootstrap, JavaScript Phyton and Django Framework
Tools	Visual Studio Code 1.67.1, PyCharm, Adobe XD
Database	SQLite

2.3 Design and Implementation Constraints

Edu Scholarship is a web-based application for both providing and seeking a scholarship on this platform. For the front-end development of the application using Html, CSS, Bootstrap and JavaScript. For back-end development python is used. SQLite database will be used to store the data inserting of scholarship provider and scholarship seeker. Django framework will be used to develop web application.

2.4 Assumptions and Dependencies

- The performance of the application is limited to motivating scholarship providers and students that they really need this application, and they must use it.
- To make the application in such a way that it is useable by every level of scholarship.
- To get trust of scholarship providers and students on application.
- Hardware failure also affects the development and the completion time of the application.

2.5 External Interface Requirements

Following are the external interface requirements of this project:

2.6 Use Case Diagrams:

2.6.1 System use case diagram

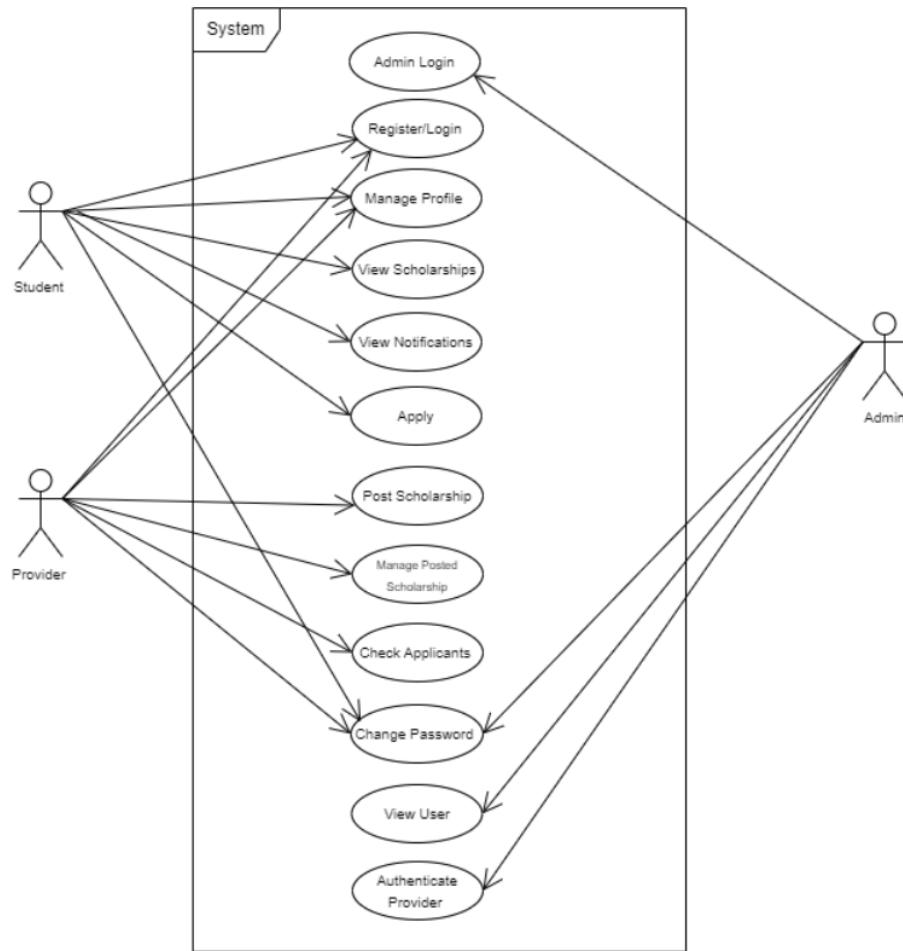


Figure 1: System Use Case

Users and Admin that control the overall system of the application. According to scholarship provider first register in the application, sign-in, post scholarships, view posted scholarships and view applied candidates. According to scholarship seeker first register in the application, sign-in, view scholarships, apply scholarships, check notifications according to its need. According to admin first sign-in, authenticate providers, and manage users.

2.6.2 Register use case diagram

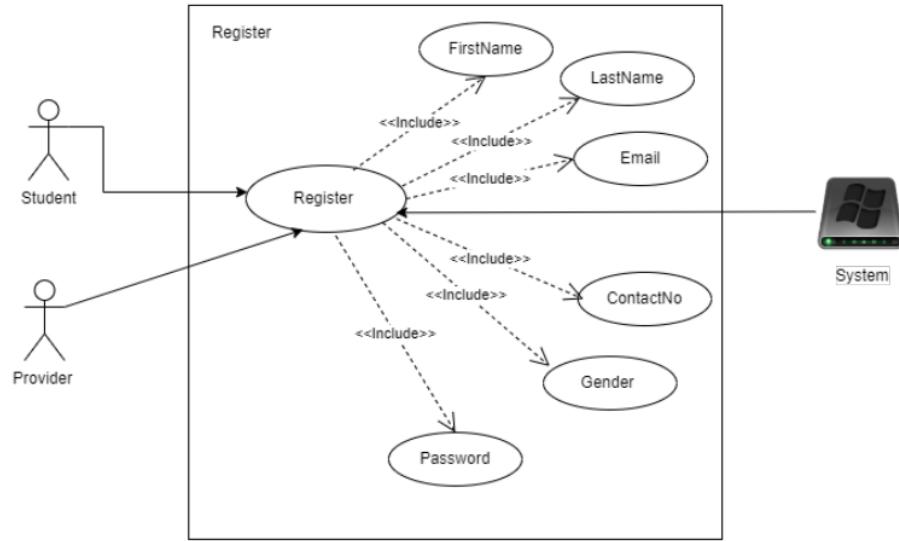


Figure 2: Register Use Case

Sign-up process for the user to enter the required information according to the given sequence to create the profile or account for the application. Sequence:

- First Name
- Last Name
- Email
- Contact Number
- Gender
- Password

2.6.3 Login use case diagram

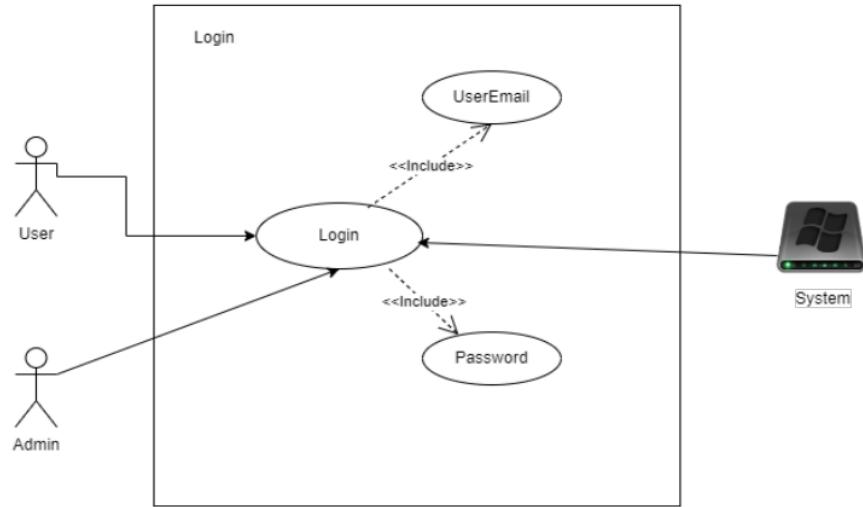


Figure 3: Login Use Case

After the completion of the registration the next part is Sign-In process by enter the correct detail in the two-given section. Sections:

- Email
- Password

2.6.4 Post Scholarship use case diagram

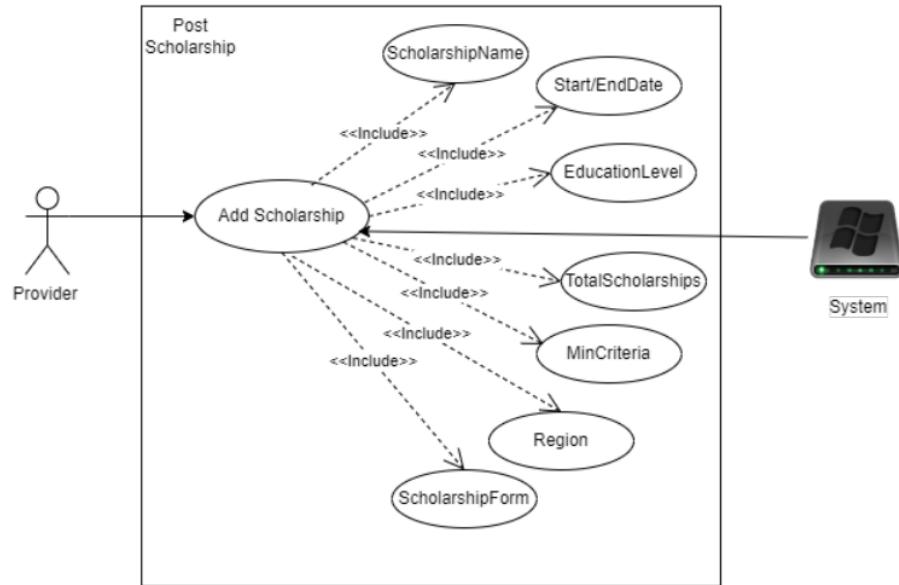


Figure 4: Post Use Case

2.6.5 Apply for Scholarship use case diagram

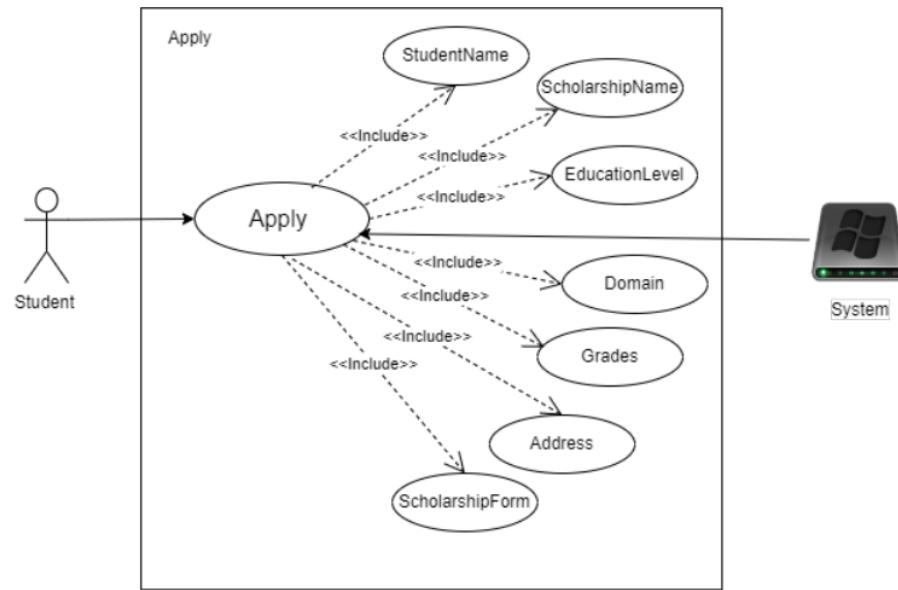


Figure 5: Apply Use Case

2.7 Use Case Description Table

The following tables along with the certain conditions, flow of work and modules to be used in the Application.

2.7.1 Register

Table 2: Register

1	Unique Identifier	U1
2	Objective	To have users correct information and validate email for maintaining record
3	Priority	High
4	Source	Provider/Student
5	Actors	Provider/Student
6	Flow of events	<p>Basic flow:</p> <ul style="list-style-type: none"> • User will fill the required fields • Validating data • User is ready to use app <p>Alternative flow:</p> <ul style="list-style-type: none"> • Register users cannot register again • If user already exist, then app will move to login screen
7	Includes	None
8	Pre-condition	Provider/Student
9	Post Condition	Users is successfully registered

2.7.2 Login

Table 3: Login

1	Unique Identifier	U2
2	Objective	To validate that the user login to their account or are they registered yet or not
3	Priority	High
4	Source	Admin/Provider/Student
5	Actors	Admin/Provider/Student
6	Flow of events	<p>Basic flow:</p> <ul style="list-style-type: none"> • Users enter the login credentials • Validation data • User redirected to main screen of their account <p>Alternative flow:</p> <ul style="list-style-type: none"> • User cannot use same credentials for another account
7	Includes	U1
8	Pre-condition	User must be connected with internet
9	Post Condition	User can easily log-in or log-out

2.7.3 View Scholarships

Table 4:View Scholarship

1	Unique Identifier	U3
2	Objective	To allow user to view scholarship of all categories
3	Priority	Moderate
4	Source	Provider
5	Actors	Provider/Student
6	Flow of events	<p>Basic flow:</p> <ul style="list-style-type: none"> • User(student) will view each scholarship of all categories • User can easily <p>Alternative flow:</p> <ul style="list-style-type: none"> • User can move to another category of scholarships
7	Includes	U2
8	Pre-condition	User must be sign in first
9	Post Condition	User can easily use application

2.7.4 Apply Scholarship

Table 5: Apply Scholarship

1	Unique Identifier	U4
2	Objective	To allow user to apply for scholarship
3	Priority	High
4	Source	Student
5	Actors	Student
6	Flow of events	<p>Basic flow:</p> <ul style="list-style-type: none"> • User(student) will view complete details of each scholarship • User can apply easily on website <p>Alternative flow:</p> <ul style="list-style-type: none"> • User can apply on more scholarships
7	Includes	U2, U3
8	Pre-condition	User must be sign in first
9	Post Condition	User can apply on more scholarships

2.7.5 Post Scholarship

Table 6: Post Scholarship

1	Unique Identifier	U5
2	Objective	To allow user to post the scholarship
3	Priority	High
4	Source	Provider
5	Actors	Donor
6	Flow of events	<p>Basic flow:</p> <ul style="list-style-type: none"> • User(Provider) will complete details about scholarship • User will post the scholarship • Push notification to students <p>Alternative flow:</p> <ul style="list-style-type: none"> • User can post more scholarships
7	Includes	U1, U2
8	Pre-condition	User must be sign in first
9	Post Condition	User can post more scholarships

2.7.6 View Applied Applicant

Table 7: Applied Candidate

1	Unique Identifier	U6
2	Objective	To allow user to view applied candidates
3	Priority	High
4	Source	Provider
5	Actors	Provider
6	Flow of events	<p>Basic flow:</p> <ul style="list-style-type: none"> • User can see the applicants • User can get the total number of candidates for a specific scholarship <p>Alternative flow:</p> <ul style="list-style-type: none"> • User can use another feature
7	Includes	U1, U2, U5
8	Pre-condition	User must be posting the scholarship
9	Post Condition	User can view details and delete

2.7.7 Manage Users

Table 8: User Management

1	Unique Identifier	U7
2	Objective	This use case describes the event of an admin to block or unblock an account
3	Priority	High
4	Source	Admin
5	Actors	Admin
6	Flow of events	Basic flow: <ul style="list-style-type: none">• Admin will check and manage the accounts• Admin will accept or reject the user's account
7	Includes	U2
8	Pre-condition	Administrator is logged in
9	Post Condition	Account is successfully accepted or rejected

2.7.8 Authentication

Table 9: Authentication

1	Unique Identifier	U8
2	Objective	Admin will allow to provider to logged in and perform the activities
3	Priority	High
4	Source	Admin
5	Actors	Admin/Provider
6	Flow of events	<p>Basic flow:</p> <ul style="list-style-type: none"> • Admin will accept or reject the user's account • User can post the scholarships • User can see applied candidates <p>Alternative flow:</p> <ul style="list-style-type: none"> • User can use another feature
7	Includes	U1, U2, U7
8	Pre-condition	Administrator is logged in
9	Post Condition	Account is successfully accepted or rejected

2.8 System Requirement Chart

Table 10: System Requirement

ID	Priority	Type	Source	Contained in use case	Description
PR1	High	Functional	Student/ Provider/ Admin	U1, U2	User will register and then login to use the services of Edu Scholarship portal. They can easily change their profile and other details like mobile number name etc.
PR2	High	Functional	Student	U3	Student can view all type of scholarship.
PR3	Moderate	Functional	student	U4	Student can view complete details of each scholarship and apply easily on website.
PR5	High	Functional	Provider	U5	Provider will complete details about and post the scholarship.
PR6	High	Functional	Provider	U6	Provider can see the all applied candidate and can check their complete details.
PR7	High	Functional	Admin	U7	Admin can check and manage the user's accounts.
PR8	High	Functional	Admin	U8	Admin can allow to provider to logged in and perform the activities
PR9	High	Non-	N/A	N/A	Server response

		functional			
PR10	High	Non-functional	N/A	N/A	Power loss and system failure safety ①
PR11	High	Non-functional	N/A	N/A	Components of the project code will be tested alongside the implementation phase to ensure that they are functional.
PR12	High	Non-functional	N/A	N/A	One email contains only one gardening perfect account
PR13	High	Non-functional	N/A	N/A	All the passwords should be encrypted form
PR14	High	Non-functional	N/A	N/A	Design best Architecture for better data retrieval from server

2.9 Other Non-functional Requirements

Non-functional requirements of this project are:

① 2.9.1 Performance Requirements

The system should perform all the actions correct and frequently. A slow internet connection may impact the performance of the application. A good and stable internet connection is required

2.9.2 Security Requirements

To provide the users with the best application experience we will update our application from time to time to fix the bugs and errors.

2.9.3 Software Quality Attributes

- System shall permit only to authorized farmer users.
- Users should login to the system to get the facilities.

2.9.4 Other Requirements

Software quality attributes of this project are:

- **Availability:** The application will be available for the user 24/7.
- **Testability:** The application should be easy to test at each level and find the bugs/defects at each level of development and remove the defects easily.
- **Maintainability:** The system should be maintained and configured easily.

CHAPTER 3

DESIGN AND METHODOLOGY

The design phase gives an overview of the design and methodology of the Edu Scholarship. Design and methodology give a complete view of how the Edu Scholarship application operates. This will help developers and users to understand and check the design in detail.

3.1 Domain Model

Domain models represent the set of requirements that are common to systems within a product line. There may be many domains, or areas of expertise, represented in a single product line and a single domain may span multiple product lines. The requirements represented in a domain model include:

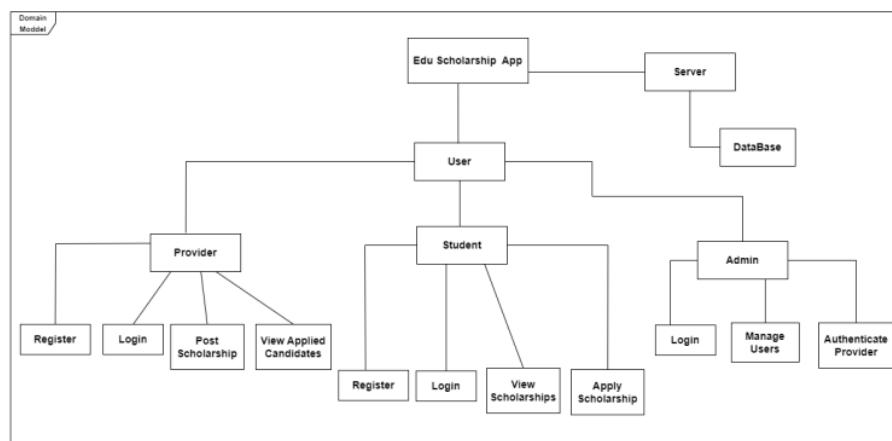


Figure 6: Domain Model

8 3.2 Sequence Diagram

Sequence diagram shows, as parallel vertical lines (lifelines), different processes or objects that live simultaneously, and as horizontal arrows, the messages exchanged between them, in the orders in which they occur. Sequence diagrams of the “Edu Scholarship” given below:

3.2.1 User Registration

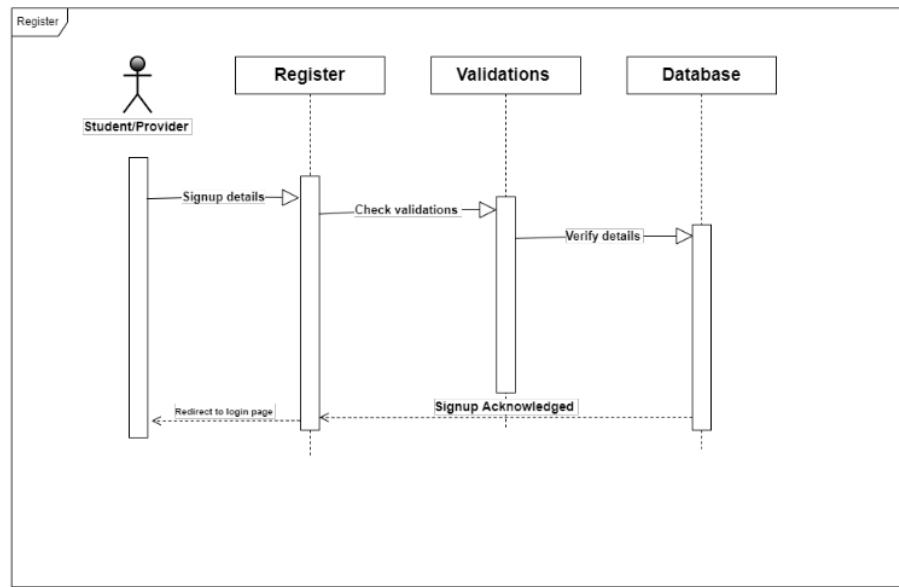


Figure 7: User Registration

3.2.2 Student Login

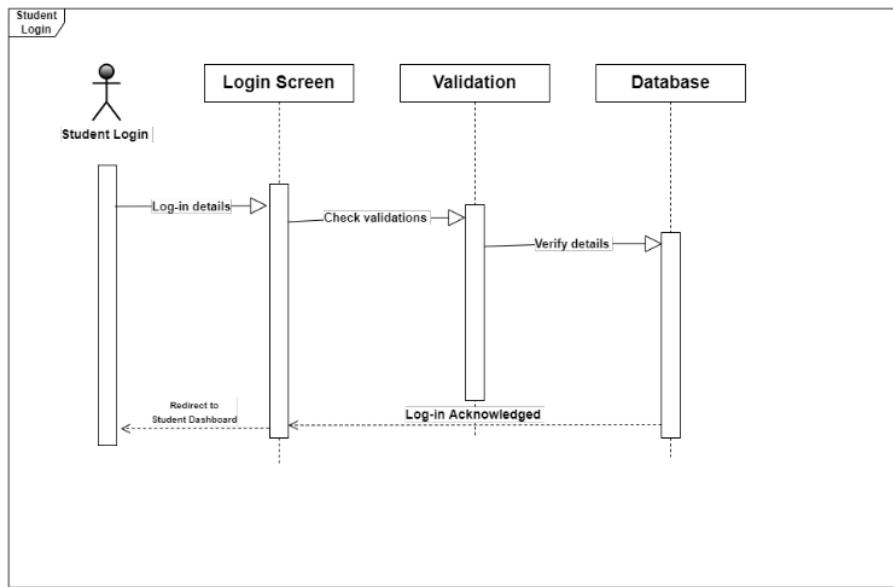


Figure 8: Student Login

3.2.3 Scholarship Provider Login:

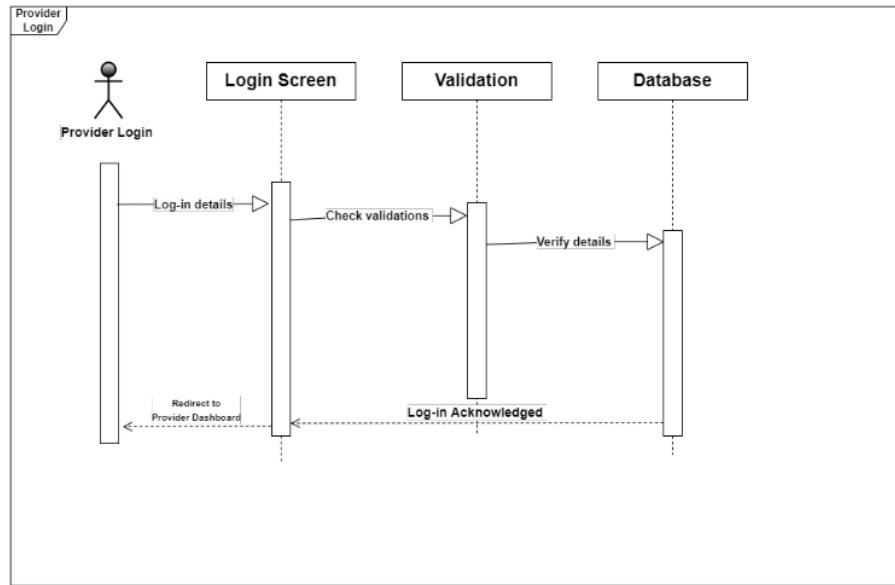


Figure 9: Scholarship Provider Login

3.2.4 Admin Login

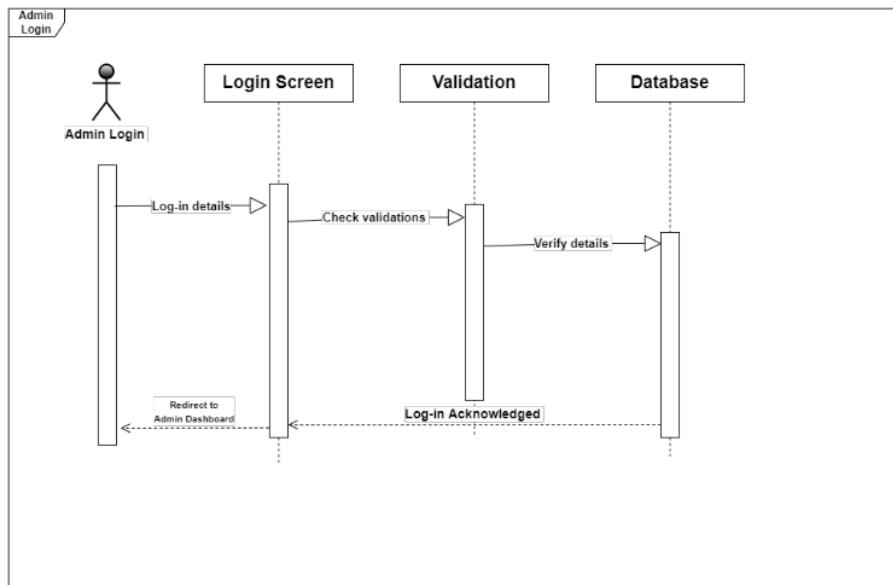


Figure 10: Admin Login

3.2.5 Apply for Scholarship

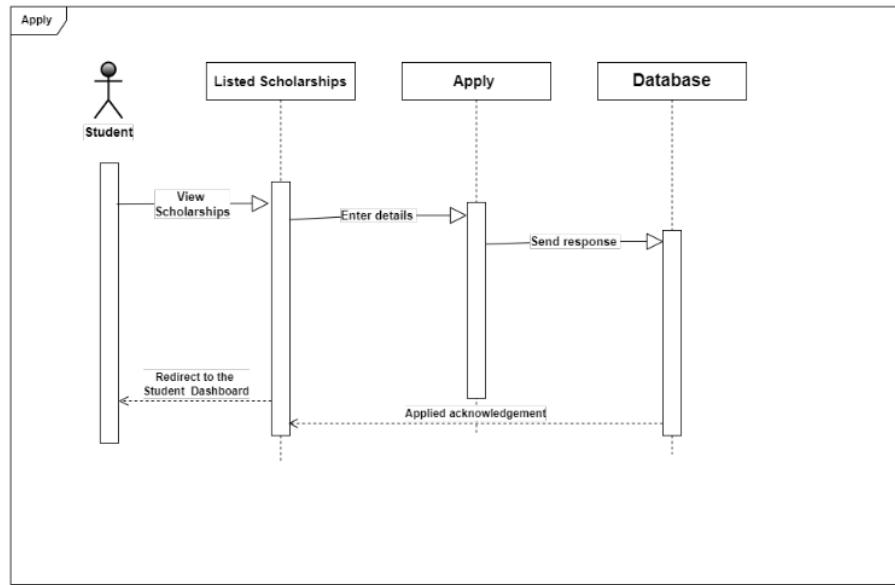


Figure 11: Apply for Scholarship

3.2.6 Post Scholarship

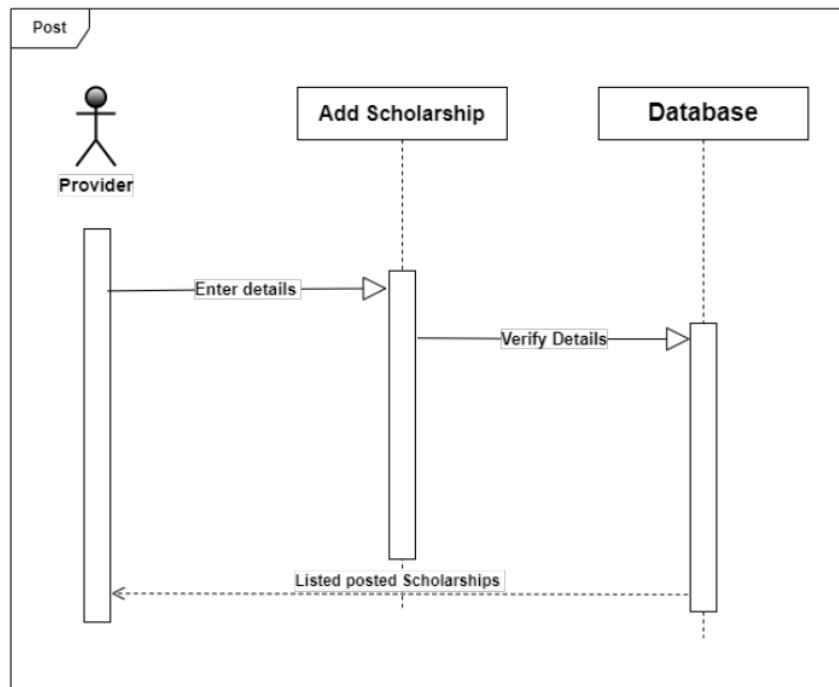


Figure 12: Post Scholarship

3.2.7 Applied Candidates:

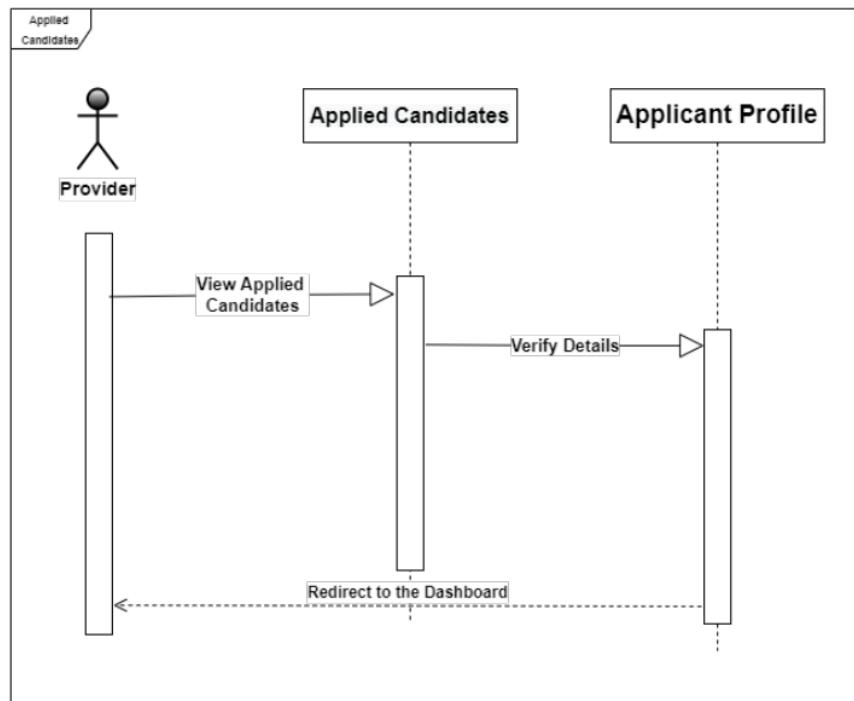


Figure 13:Applied Candidates

3.2.8 Admin

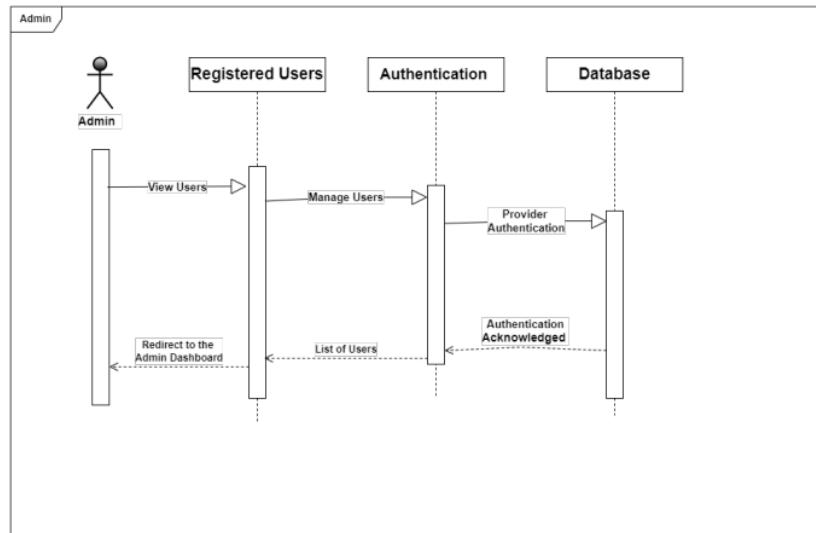


Figure 14: Admin

3.3 Class Diagram

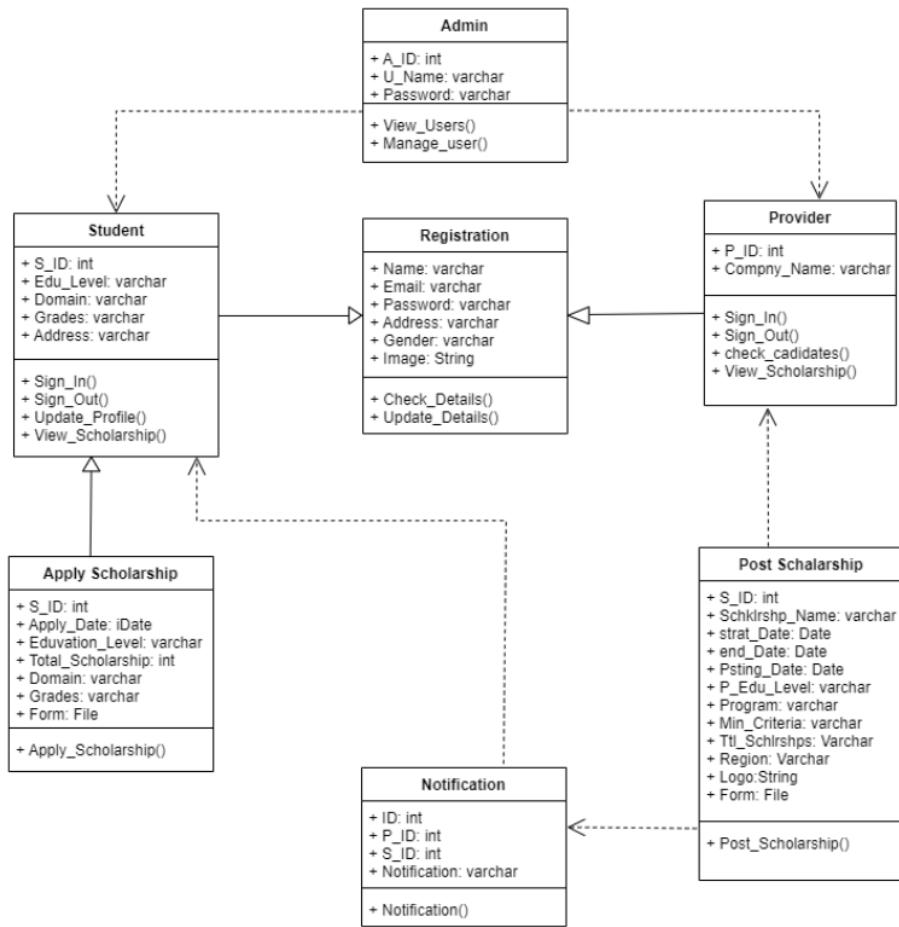


Figure 15: Class Diagram

3.4 Entity Relationship Diagram

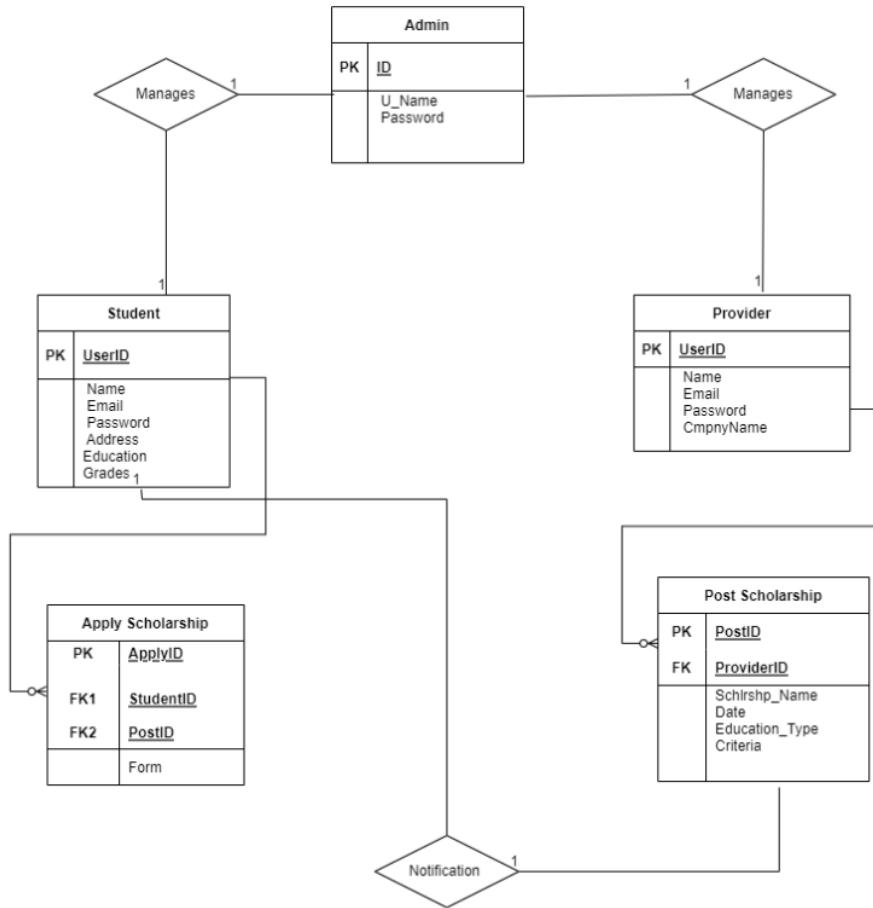


Figure 16: Entity Relationship Diagram

3.5 Methodology

The methodology which will be used in our project is “Feature Driven Development” in Agile. FDD is customer-centric, iterative and incremental, with the goal of delivering tangible software results often and efficiently. The structure of feature driven development easy to adaptable and uses a sensible approach.

The following are the steps of FDD that will be considered in my project:

- 5
1. Develop an overall model: This is the first phase of FDD in which project's scope will be decided initially. It will decide what this project is, what functionalities this project is going to perform.
2. Build a feature list: This phase provides a foundation for upcoming phases. In this phase we will identify features by inspecting model.
- 5
3. Plan by features: This third phase is the most crucial phase where all the planning of the project starts. All the data gathered in previous phase will be documented. Estimate time of completion for each module will be given. Gantt chart and other charts can be used.
4. Design by feature: In this phase more precision is required on how a system by feature is designed. Sequence diagrams for each module will be made so if there is any error in functionality it can be altered.
- 5
5. Build by feature: This phase is the last phase where the technical part comes in action. After designing phase features one after another will be made. After completion, this project be tested and debugged.

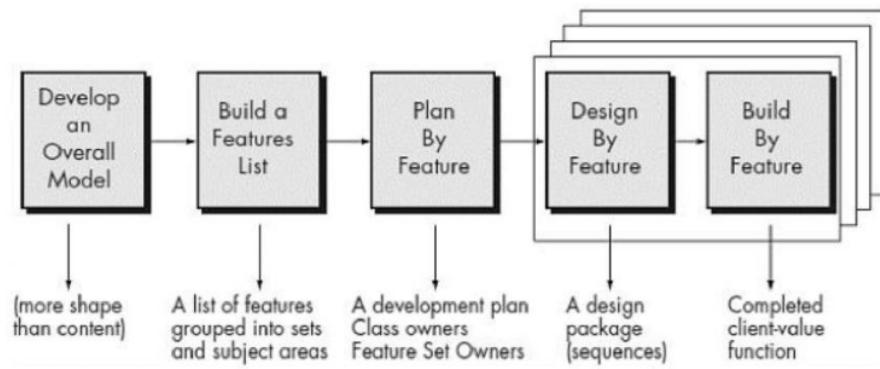


Figure 17: FDD[1]

1 CHAPTER 4

DATA AND EXPERIMENTS

4.1 Languages used for Implementation:

4.1.1 Python:

Python is an open-source high-level programming language. It is basically used for web development, game development, language development. It has a very huge developer community. Python is a programming language that lets you work quickly and integrate systems more efficiently. Python supports multiple programming paradigms, including procedural, object-oriented, and functional programming. Python is often described as a "batteries included" language due to its comprehensive standard library. Python (3.10.7) latest version will be used in this project.

4.1.2 Htm1:

HTML also known as Hypertext Markup Language, is the set of markup symbols or codes inserted in a file to display on a World Wide Web browser page. The markup tells the Web browser how to display the contents like words and images on a Web page for the user. Each individual markup code is called as an element which is also known as tags by some people (programmers). Some elements come in pairs that indicate when some display effect is to begin and when it is to end.

4.1.3 ² CSS:

Cascading Style Sheets (CSS) are a collection of rules we use to define and modify web pages. CSS are similar to styles in Word. CSS allow Web designers to have much more control over their pages look and layout. For instance, you could create a style that defines the body text to be Verdana, 10 points. Later on, you may easily change the body text to Times New Roman, 12 points by just changing the rule in the CSS. Instead of having to change the font on each page of your website, all you need to do is redefine the style on the style sheet, and it will instantly change on all of the pages that the style sheet has been applied to. With HTML styles, the font change would be applied to each instance of that font and have to be changed in each spot.

CSS can control the placement of text and objects on your pages as well as the look of those objects.

4.1.4 JavaScript:

JavaScript, which was originally developed by Netscape as a mean to add dynamic and interactive elements to websites, ³ is a programming language which is generally used in web development. While JavaScript is influenced by Java, the syntax is more like C and is based on ECMAScript, a scripting language developed by Sun Microsystems.

JavaScript is a client-side scripting language, whose source code is processed by the client's web browser rather than on the web server. This means JavaScript functions can run after a webpage has loaded without communicating with the server. The JavaScript code can produce an error message before any information is actually transmitted to the server.

4.2 Framework:

4.2.1 **Django:**

Django is a Python language web framework that encourages rapid and clean development. It is based on MVT (Model View Template) design pattern. Django is very demanding due to its rapid development feature. It takes less time to build application after collecting client requirement. You can focus on writing your app in Django because it's open source.

Django (4.0.2) latest version will be used in this project.

This framework uses a famous tag line: The web framework for perfectionists with deadlines.

4.2.2 **Bootstrap:**

Bootstrap which was designed to enable responsive development of mobile first websites, is a free and open-source front-end development framework for the creation of websites and web apps. Bootstrap provides a collection of syntax for template designs.

4.3 **Database:**

4.3.1 **SQLite:**

SQLite is the default database which comes with Django and is used to store data from our website when we run our website on any server. Django is a server-side framework and it treats our computer as the host when we actually run the server in command line or terminal. it works fine and provides a lot of features but using any efficient database is recommended if we want scalability in our websites.

4.4 Tools used for Implementation:**4.4.1 VS code:**

Microsoft Visual Studio Code is a standalone source code editor that runs on multiple operating systems. It is used to develop computer programs, as well as websites, web apps, web services, and mobile apps. It supports many programming languages and a set of features that differs per language. VS Code provides initial support including syntax highlighting etc.

4.4.2 Abode XD:

Abode XD is a prototyping tool for user experiences and interaction designers. Adobe XD features are useful for creating wireframes prototypes UI designing for digital products such as mobile apps and websites.

4.4.3 Draw.io:

Draw.io is a free diagramming application that allows users to create and share diagrams within a web browser. It helps to draw diagrams like sequence diagrams, collaboration diagrams, ER diagrams and class diagrams.

CHAPTER 5

RESULTS AND DISCUSSIONS (or USER MANUAL)

5.1 Overview

Edu Scholarship is a scholarship portal for both students and scholarship donors. Where scholarship provider can easily describe their scholarship posts and students can apply for the various scholarships according to their needs.

5.2 Application Prototype:

5.2.1 Home Page



Figure 18: Computer User

5.2.2 Login Student



Figure 19: Computer User

5.2.3 Register Student



Figure 20: Computer User

5.2.4 Login Provider



Figure 21: Computer User

5.2.5 Register provider



Figure 22: Computer User

5.2.6 Login Admin



Figure 23: Computer User

5.2.7 User Profile**Figure 24: Computer User****5.2.8 Apply Scholarship****Figure 25: Computer User****5.2.9 View All Scholarship****Figure 26: Computer User****5.2.10 Login Provider**

Figure 27: Computer User

5.2.11 View detail of Scholarship



Figure 28: Computer User

5.2.12 Post Scholarship



Figure 29: Computer User

5.2.13 View Applied Candidate



Figure 30: Computer User

5.2.14 Admin Home



Figure 31: Computer User

5.2.15 Authentication



Figure 32: Computer User

CHAPTER 6

CONCLUSION AND RECOMMENDATIONS

6.1 Project Achievements

From the verification of plan and after testing the application, the actual output of the Scholarship Portal application is getting good result as manage to reach all the expected output and fulfilled the project objectives. In the end, Scholarship portal application provides a platform where students and scholarship providers engaged under one platform. There is a functionality of admin that the admin can manage the students and scholarship providers and this functionality is achieved successfully. Where scholarship provider can post scholarships and manage the record of the applicant's and scholarships that have been awarded. When the scholarship is posted the notification system sends the notification to the student that the scholarship is posted on the portal and student can apply for scholarships after checking the criteria of the scholarship. When the student completes the application now the application process is on the provider end and after the selection process student will be notified that he will be awarded or not. Furthermore, all the milestones of the project are completed.

6.2 Future Work

As the number of students increases day by day and there is big problem for institutions and donors to accommodate all the deserving and talented students, we can do a data science work for better reach to the students. Secondly, we have a plans to build a mobile application for android and IOS platform.

6.3 Implementation Issues and Challenges

In this project, we encounter serval challenges throughout the project life cycle. First and foremost, development tools and environment need to be determined before the project can proceed. There are many much-integrated development environments such as Visual Studio Code, PyCharm, Atom, Jupiter notepad who can be used for the development of web portals. IDEs like Jupiter, PyCharm, Atom is not suitable, and they require extra plugins to integrate with the system while developing a web portal. From all the available option we have to adopt best approach and for the development of this web application we are use Visual studio Code as they have a vast amount of developer community which helps web developers in the hour of need. On the other hand, Django as compared to the .Net, ROR and java. Django is new to the market it is still under a lot of development latest version are realizing quickly, we had to change our code frequently as the syntax and new features were added to the build.

6.3.1 Conclusion

In this modern world, people are using modern application built on latest technologies to manage and process the data which will be helpful and not much time consuming. By research we analyse that in Pakistan students are facing financial issues to bear their educational expenses most of talent is wasted due to the financial problem. Many of the sources wasted or not in the right hand So, our proposed system will be very helpful for the students and the scholarship provides. This proposed system provides all the necessary information about the scholarships posted on the portal from the

Scholarships Providers which will be very helpful for the students. Scholarship providers also gathers the information about the applicants using this Scholarship portal. Based on that information scholarship provider can make their decision to award the students by scholarship. In addition, this platform is not dependent to any single person who wants to play a role in the development of society could be register on this platform and support the deserving and talented students. Students face difficulties to hunt the scholarships and sometimes they miss the deadline of the scholarships due to the lack of information. This platform covers almost all types of scholarships and provides all the necessary information to the students.

REFERENCES

- [1] J. M. D. Santos, “XP, FDD, DSDM, and Crystal Methods of Agile Development,” *Project-Management*, 2022. [Online]. Available: <https://project-management.com/xp-fdd-dsdm-and-crystal-methods-of-agile-development/>. [Accessed: 26-Mar-2022].

Irfan Plagiarism report

ORIGINALITY REPORT



PRIMARY SOURCES

1	Submitted to Higher Education Commission Pakistan	11%
2	Submitted to Visvesvaraya Technological University, Belagavi	3%
3	Submitted to Kuala Lumpur Infrastructure University College	1%
4	Submitted to University of Greenwich	1%
5	Submitted to Universiti Teknologi Malaysia	1%
6	www.smartsimple.com	1%
7	www.classicinformatics.com	1%
8	www.essaysausage.com	1%

Exclude quotes On

Exclude matches < 1%

Exclude bibliography On

Irfan Plagiarism report

GRADEMARK REPORT

FINAL GRADE

/0

GENERAL COMMENTS

Instructor

PAGE 1

PAGE 2

PAGE 3

PAGE 4

PAGE 5

PAGE 6

PAGE 7

PAGE 8

PAGE 9

PAGE 10

PAGE 11

PAGE 12

PAGE 13

PAGE 14

PAGE 15

PAGE 16

PAGE 17

PAGE 18

PAGE 19

PAGE 20

PAGE 21

PAGE 22

PAGE 23

PAGE 24

PAGE 25

PAGE 26

PAGE 27

PAGE 28

PAGE 29

PAGE 30

PAGE 31

PAGE 32

PAGE 33

PAGE 34

PAGE 35

PAGE 36

PAGE 37

PAGE 38

PAGE 39

PAGE 40

PAGE 41

PAGE 42

PAGE 43

PAGE 44

PAGE 45

PAGE 46

PAGE 47

PAGE 48

PAGE 49

PAGE 50

PAGE 51

PAGE 52

PAGE 53

PAGE 54

PAGE 55

PAGE 56

PAGE 57

PAGE 58

PAGE 59

PAGE 60

PAGE 61

PAGE 62
