



Daffodil
International
University

Project: Scholarship Hub

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This Project report has been submitted in fulfillment of the requirements for the
Degree of

Bachelor of Science in Software Engineering.

APPROVAL

This project entitled on “*Scholarship Hub*”, submitted by *Taufiq Ahommed Nelay* (ID: 181-35-323) to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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DECLARATION

I hereby declare that, this project has been done by me under the supervisor of **Md Rajib Mia**, Lecturer, Department of Software Engineering, Daffodil International University. I also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.



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Acknowledgment

I would like to thank my supervisor Md Rajib Mia. He supports me a lot to complete this project. He provides me the Idea for this project. I have done this project completely because of him.

I also want to thank my all friends, family, all members of my department for supporting me in every situation.

Abstract

This is the age of technology. Most of the people are using now a various kind of technologies. A software system is one of the most useful technologies. We can manage any organization by software. There are a lot of software that provide us information, knowledge. We can also use software for entertainment purpose. Specially in this pandemic situation, software like google meet, zoom, etc. communication services, online content watching software like Netflix, amazon prime, Disney hot-star, etc. and much more important software help us to use our time for study, communication, job, business, entertainment, remote health care, etc.

I am introducing a software: “Scholarship Hub” that helps us to know about scholarships. A user can find his or her ideal scholarship by using this system. Also, users can know details about scholarships, universities. This system will help users to take the right decision about their higher study.

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Chapter 1: Introduction

Introduction

“Scholarship Hub” is an android based project. Basically, this system will help students, teachers, parents to find their expected scholarship for their bright future.

Motivation

Motivation behind the project is many people have interest in foreign study but they do not have any idea about it. Our system will help everyone to understand about each and everything about a scholarship so that they can take right decision about their future career.

Objective

Our system will help people to understand about scholarship. In many systems, there are limitations of number of scholarships, proper details, etc. In many systems there only specific scholarships like country-wise or only scholarship details about master degree or only scholarship about Ph.D. Some of the systems are holding old details. In our system, there will be every kind of scholarship detail. People can find the actual scholarship for their higher studies.

Feasibility study

1. Technical: To build this application all the required technologies are available. I will explain about technologies that I have used to build this application in another slide. But right now, I assure that all the required technologies are available.
2. Economic: right now, me and my supervisor Md. Rajib Mia sir can handle the workflow till the first release. After that, if our project gains commercial success and needs more updates, we can also arrange more people for work with the help of the benefit that comes from the project's success.
3. Legal: There is no illegal issue with our project.
4. Operational: Most of the people suffer to find information about the appropriate scholarship. Our system will gather the information about scholarships, so we can hope that our system will satisfy every user.

5. Scheduling: We have already started our work. So that we can definitely finish at least all the work for first release.

Expected outcomes





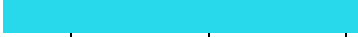



1. This system will give proper information about the scholarship.
2. Category-wise scholarship details.
3. Updated details.

Project management and finance

Currently, I am working on the system with self-fund. I am applying proper methods to complete this project.

Gantt chart

TABLE 1: LIST OF TESTED FEATURES.

Time →	Day 1 to Day 15	Day 16 to Day 30	Day 31 to Day 45	Day 46 to Day 60	Day 60 to Day 70
Task ↓					
Planning					
Environment set up					
Documentation					
Prepare diagram					
Designing					
Coding					
Marge all work					
Final correction					

Chapter 2: Background

Preliminaries/Terminologies

Scholarship Hub is a system for those who searching for opportunities but do not have any idea about the scholarship. This system provides proper information about scholarships.

This system provides:

- Category-wise scholarships details.
- Application process for a scholarship.
- Information about requirements for a scholarship.

There are many systems with very limited information. Also, some systems exist with backdated information. This system is fully updated. The system has proper information that will help a user to find expected scholarship details. Also, the system is totally free for users. If any organization wants to highlight a scholarship detail, then the system provides proper business policies and contact information.

Related Works

There are a lot of systems similar to that project. For example:

1. **topuniversities.com:** in this system, there is a lot of information about scholarships, universities. The user interface is user-friendly. But the problem is all the information is very backdated.
2. **INDIAEDUCATION Study Abroad:** this system also provides information about scholarships. But user-interface is complex. There is a filter system for scholarships. But it cannot perform in a proper way.

Comparative Analysis

This system is works based on internet connection. Because I use here the concept of web view to retrieve data from internet. I connect official websites with my system so that users can get official and updated information. From university and scholarship

ranking list users will be able to know more about foreign study environments and cultures. It will help users to be confident for foreign study.

Scope of the problem

One of the vital problems I face was when I implemented the plan, I face difficulty finding proper information. Because most of the information was unorganized. I must ensure that all information is correct and updated. Because this information is very important for a user.

Challenges

Complete the project within time was one of the major challenges for me. Collecting proper data and representing it in a very simple way was also very hard for me. Because during the development phase, I always focus on the user interface. I try my best to make the system user-friendly.

Chapter 3: Requirement Specification

Business Process Modeling

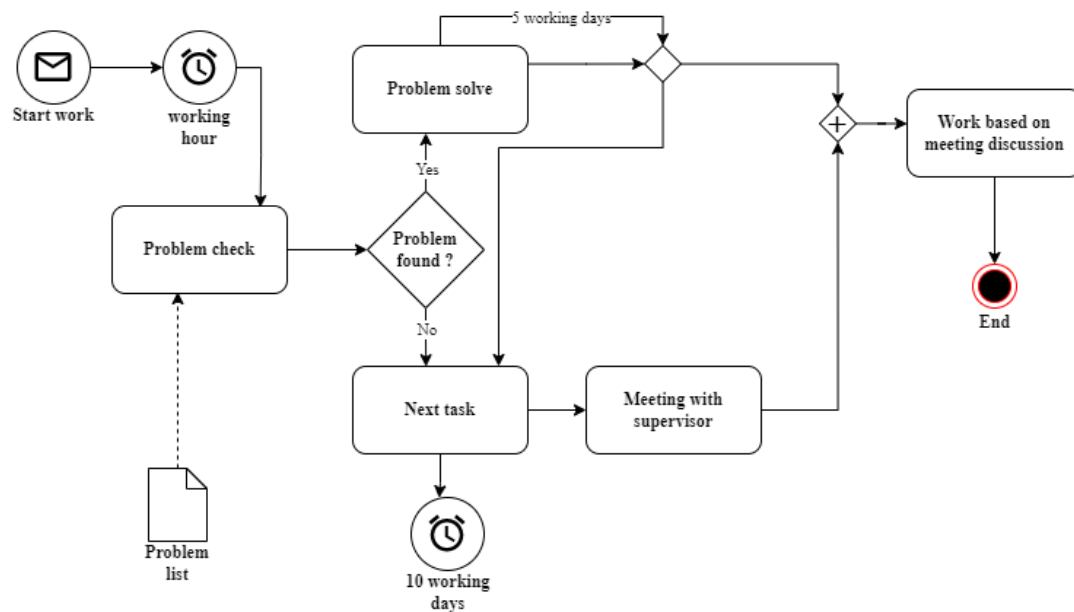


Figure 1: Business process model

Requirement collection and analysis

Functional requirements:

- This will be an android based project for “Scholarship Hub”.
- User will be able to see scholarship details.
- User will be able to find category-wise scholarships. (Country-wise, region wise, subject wise, student wise).
- User will be able to find applying process for a scholarship.
- The system must run over the internet.
- Depended on the end-user interment connection.
- The application will be developed using cross-platform technology: flutter.

Non-functional requirement:

- Response time should be fast.
- There will be no account-related issue. This system is open for everyone.
- Application size should be under 50 megabytes.

- Well-maintained.
- Application service should be available 24 hours.
- User can reach their goal easily.

Design requirements

To design the system, I use designing frontend framework: flutter. Flutter is a frontend framework for design a software system. It supports Windows, Linux, iOS, Android, web. I make the system for the android application. Dart is the programming language that supports for the logical part of the system. With the help of dart programming language, I have applied here every action and response of the application.

Requirements for the design:

- Internet support.
- Material design.
- External package for SVG picture support.
- External package for icons.
- External package for webview support.

Use case Diagram

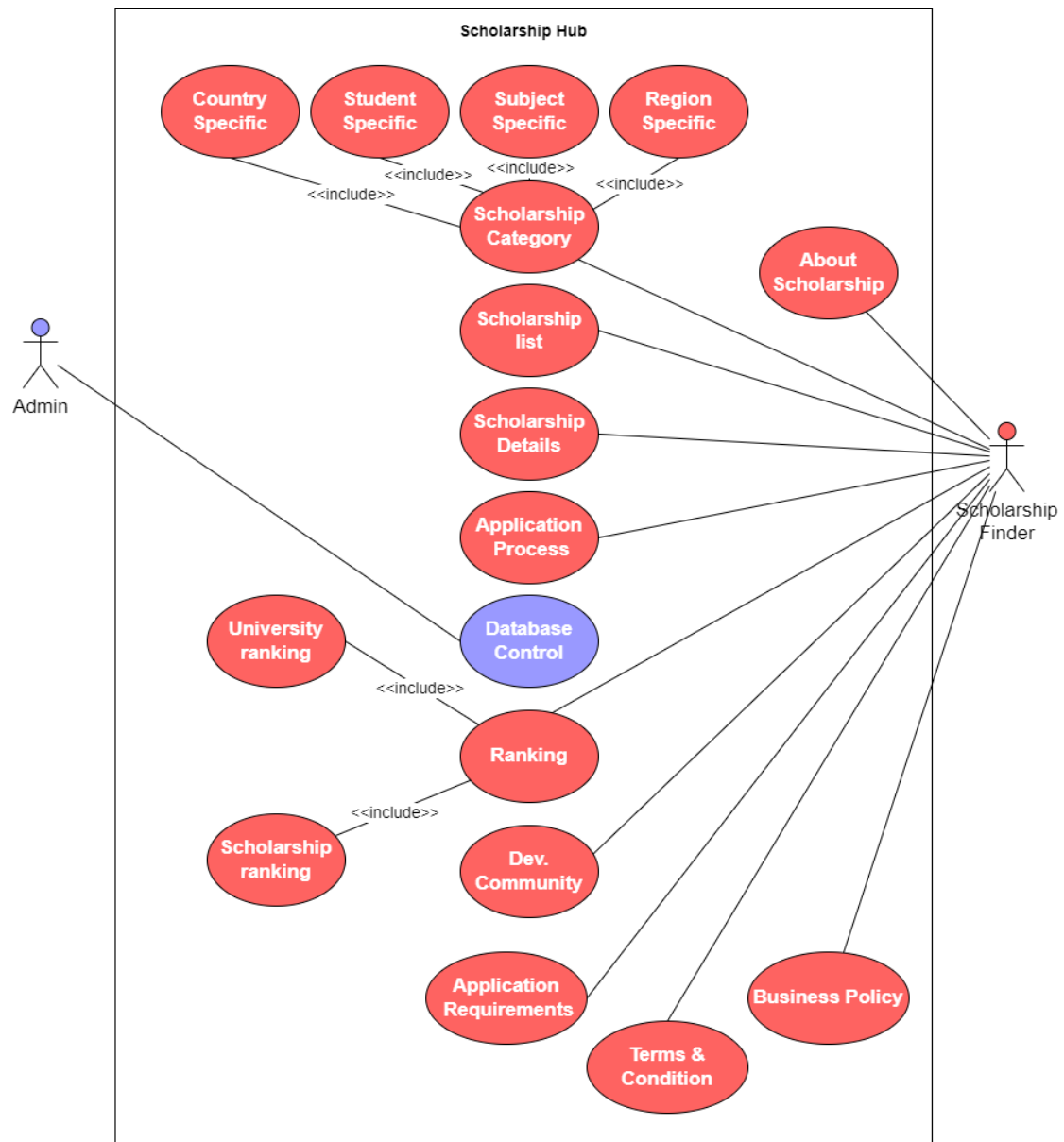


Figure 2: Use case diagram

Use Case description

TABLE 2: Scholarship Category

Use case title	Scholarship category
Pre-condition	Categories are on the home page of the app. Users just need to open the app.
Actors	Users.
Success End Condition	Category option display successfully.
Failure End Condition	App crash.
Description	Admin can change the category.

TABLE 3: Scholarship list

Use case title	Scholarship list
Pre-condition	Users must turn on the internet connection and need to open a category-wise list.
Actors	Users.
Success End Condition	The list of scholarships displays successfully.
Failure End Condition	Error message.
Description	Admin can change the list.

TABLE 4: Scholarship details

Use case title	Scholarship details
Pre-condition	Users must turn on the internet connection and need to open the list and then open any element from the list to see the details.
Actors	Users.
Success End Condition	The details of scholarships display successfully.
Failure End Condition	Error message.
Description	Admin can change elements.

TABLE 5: Application process

Use case title	Application process
Pre-condition	Users need to open the list element for the application process.
Actors	Users.
Success End Condition	Application guideline display successfully.
Failure End Condition	Error message.
Description	This option will appear from webview.

TABLE 6: Application requirements

Use case title	Application requirement
Pre-condition	Users need to open the list element for the application process and read the requirements.
Actors	Users.
Success End Condition	Requirements display successfully.
Failure End Condition	Error message.
Description	This option will appear from webview.

TABLE 7: Ranking list

Use case title	Ranking list
Pre-condition	Users need to open the list element for the application process.
Actors	Users.
Success End Condition	Application guideline display successfully.
Failure End Condition	Error message.
Description	This option will appear from webview.

TABLE 8: Developer community

Use case title	Developer community
Pre-condition	Users need to open the side navbar and open the expansion tile for getting the developer profile list.
Actors	Users.
Success End Condition	Developer details display successfully.
Failure End Condition	Error message.
Description	This is the developer profile section.

TABLE 9: Terms and Conditions

Use case title	Terms and Conditions
Pre-condition	Users need to open the side navbar and tap on the terms and conditions option.
Actors	Users.
Success End Condition	Terms and conditions display successfully.
Failure End Condition	Error message.
Description	Terms and conditions for the use and users. Admin can change the terms and conditions.

TABLE 10: Business policy

Use case title	Business policy
Pre-condition	Users need to open the side navbar and tap on the business policy option.
Actors	Users.
Success End Condition	Business policy options display successfully. Receive emails from the app successfully.
Failure End Condition	Error message.
Description	Business policy is for those organizations who want to highlight their scholarships. Organizations need to send proper details through the app. Admin can check the mails.

TABLE 11: About scholarship

Use case title	About scholarship
Pre-condition	Users need to open the side navbar and tap on the about scholarship option.
Actors	Users.
Success End Condition	About scholarship options display successfully.
Failure End Condition	Error message.
Description	Admin can change the scholarship summary.

Activity Diagram

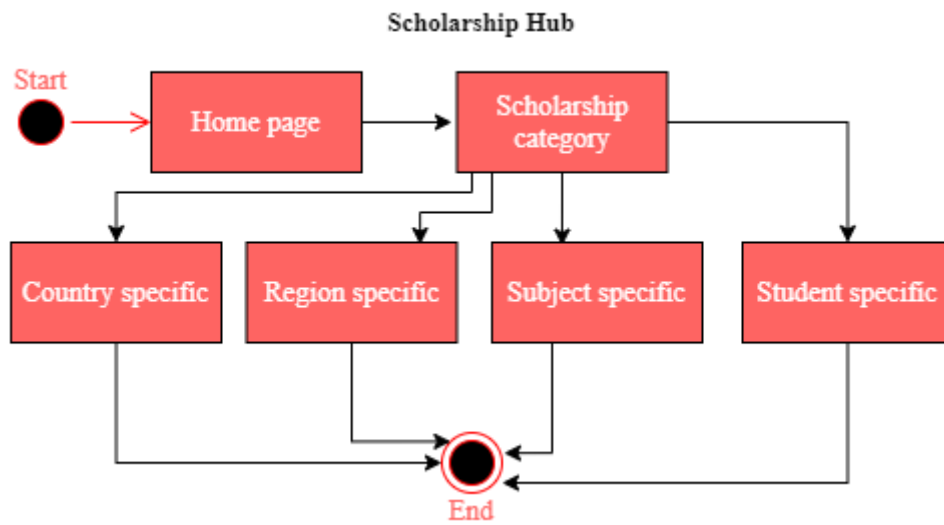


Figure 3: Activity diagram for scholarship category

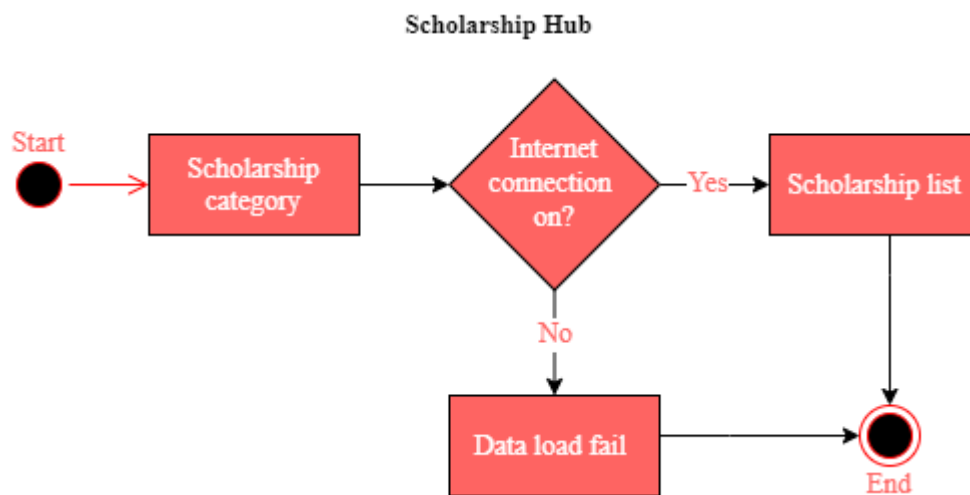


Figure 4: Activity diagram for scholarship list

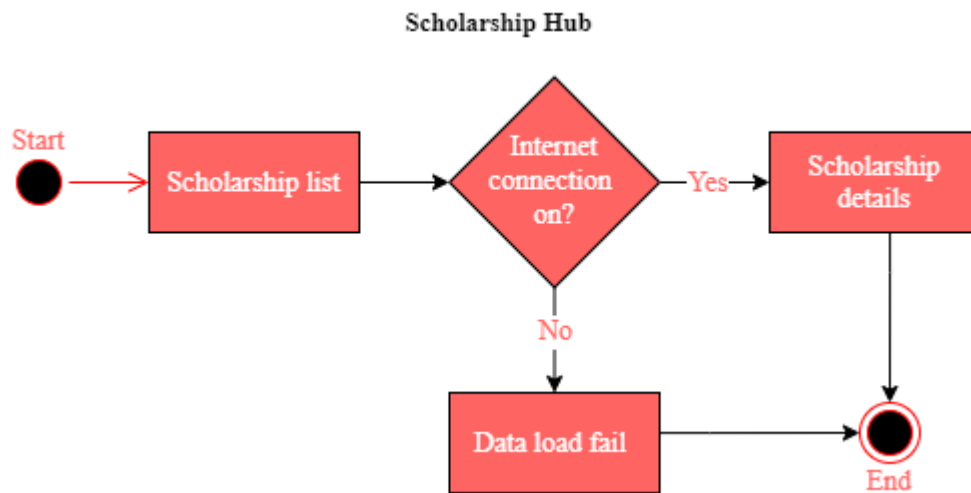


Figure 5: Activity diagram for scholarship details

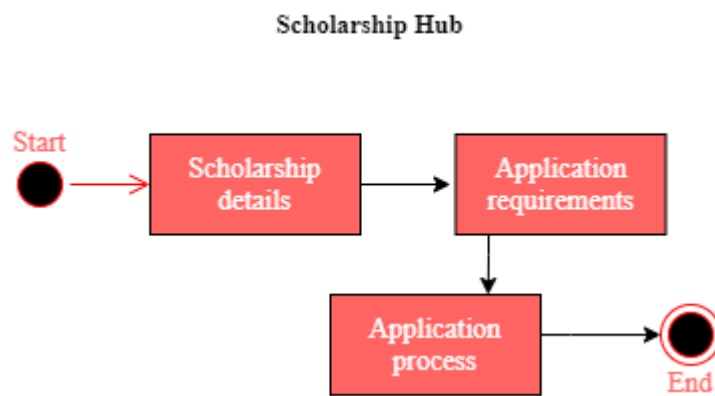


Figure 6: Activity diagram for application requirements and process

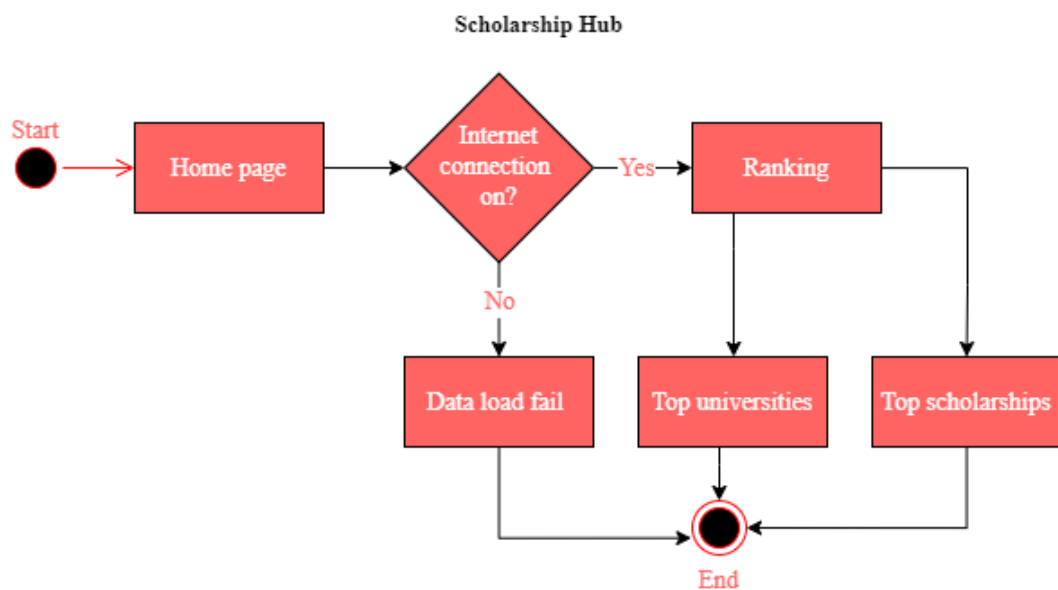


Figure 7: Activity diagram for ranking

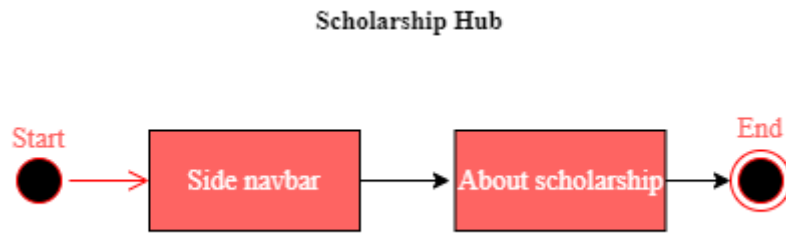


Figure 8: Activity diagram for about scholarship

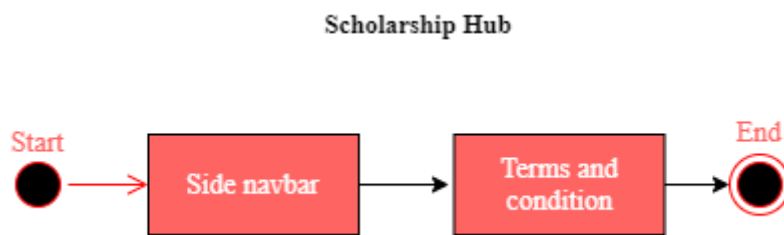


Figure 9: Activity diagram for terms and condition

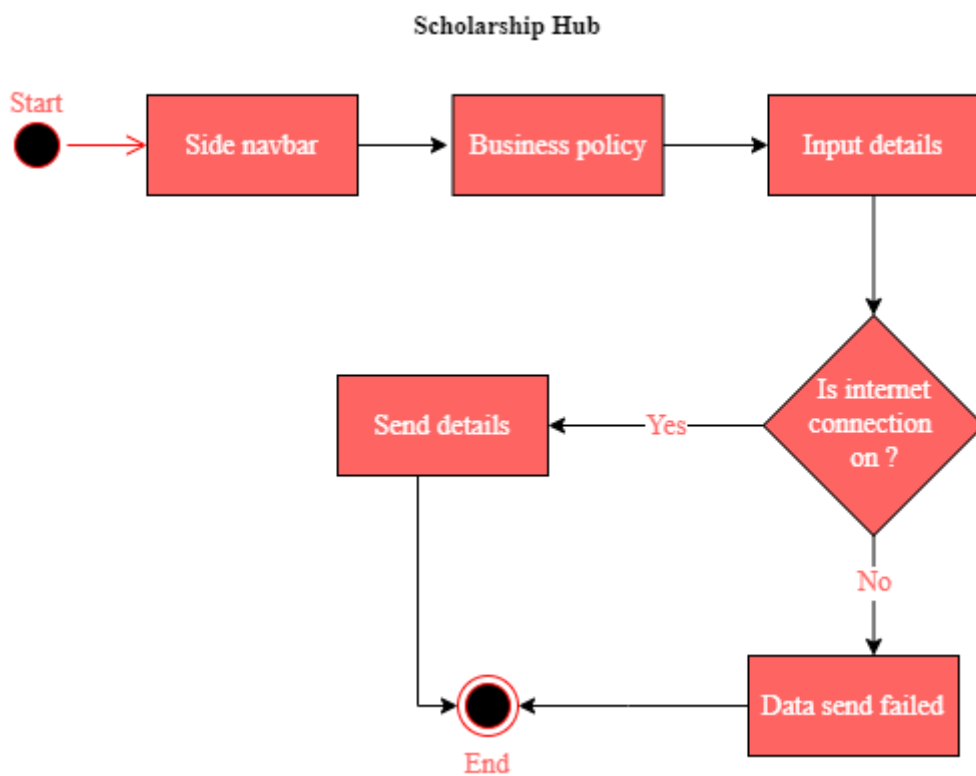


Figure 10: Activity diagram for business policy

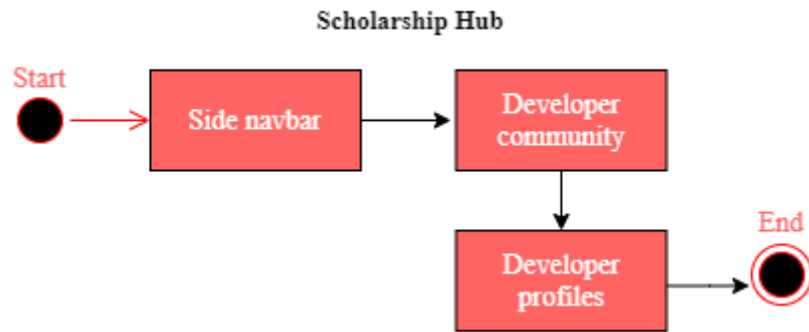


Figure 11: Activity diagram for developer community

Dataflow Diagram

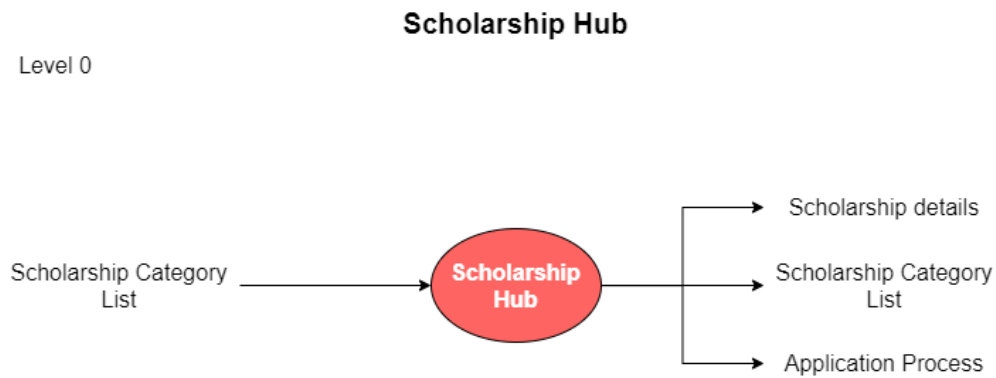


Figure 12: Dataflow diagram level 0

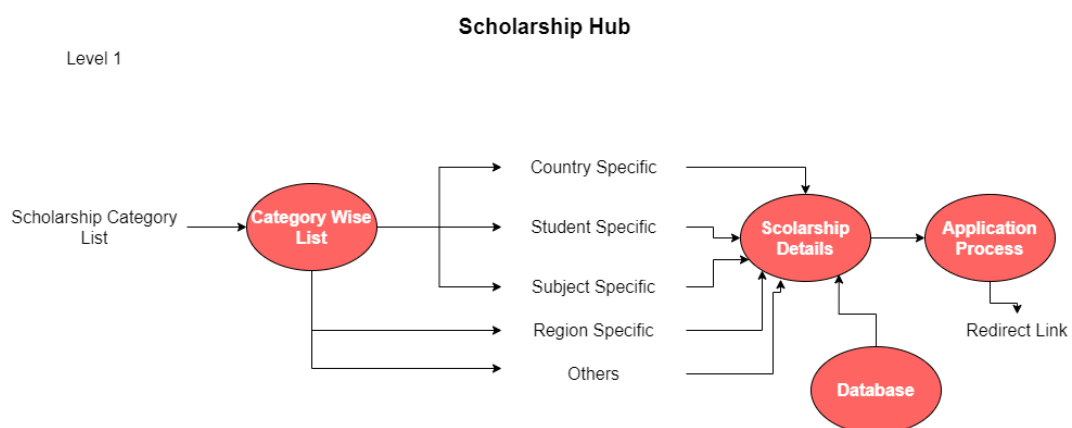


Figure 13: Dataflow diagram level 1

Entity Relationship Diagram

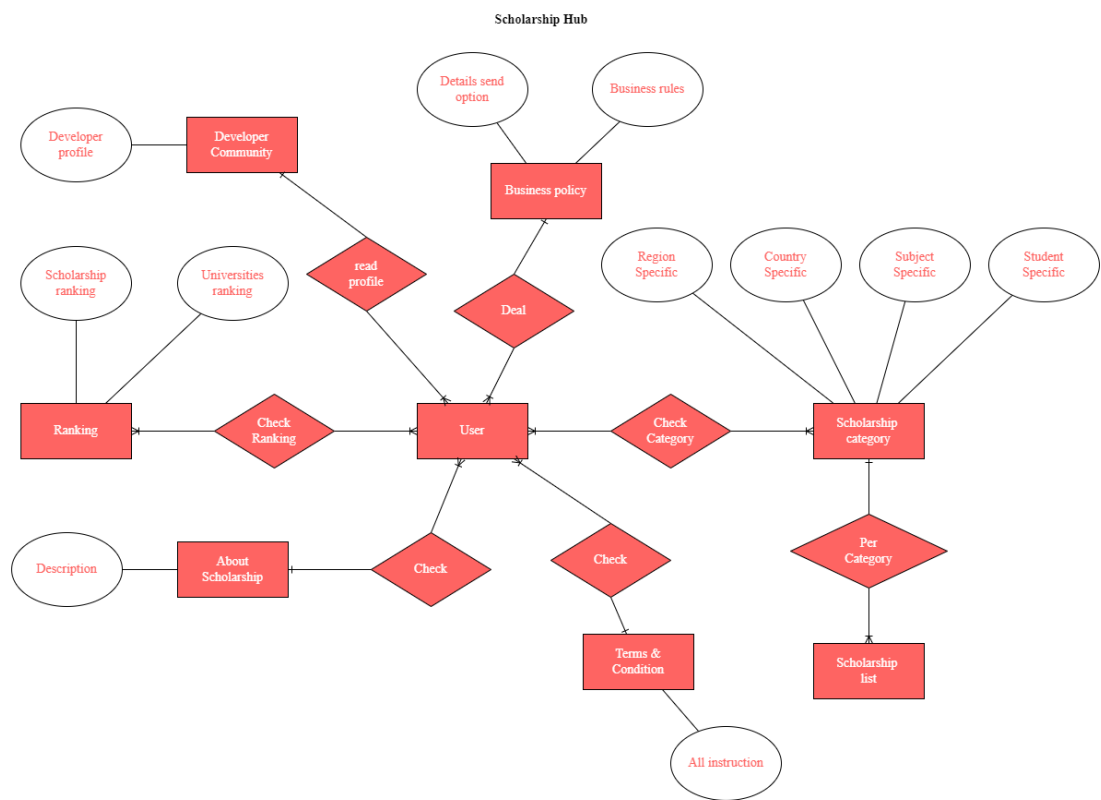


Figure 14: Entity relationship diagram

Class diagram

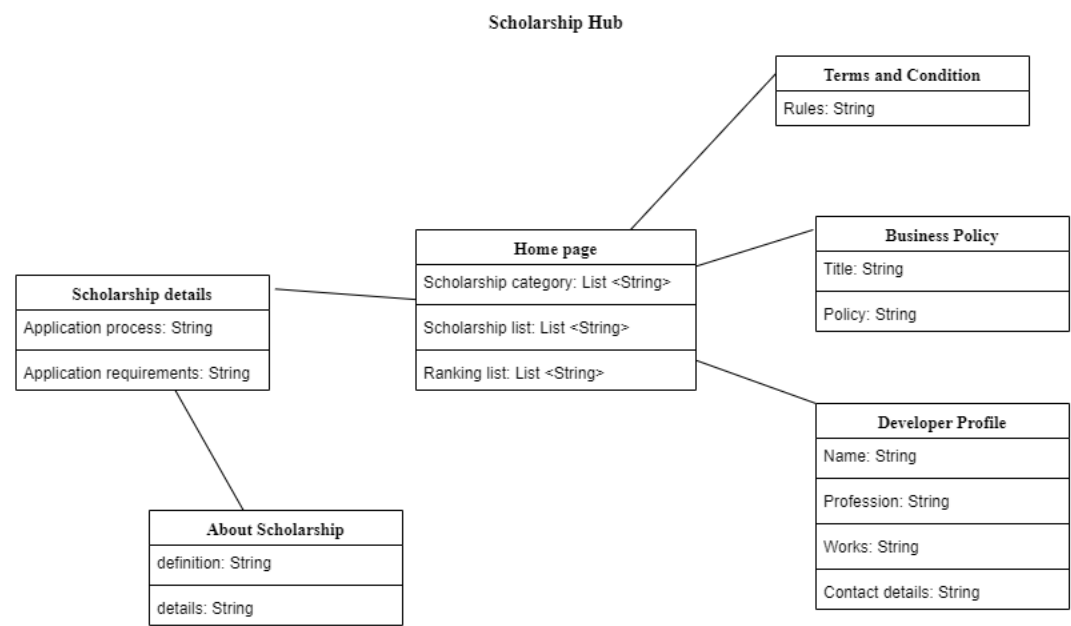


Figure 15: Class diagram

Chapter 4: Design Specification

Implementation requirements

Software specification:

- Operating system: Windows 10.
- Platform: Android.
- Technology: flutter, dart, python.
- Database: MySQL.
- Development Tools: android studio, JDK, dart SDK, flutter SDK, XAMPP.
- Design tools: draw.io.
- Browser: Google chrome.

Hardware specification:

- 12 GB RAM.
- 1 TB hard drive.
- 128 GB SSD card.
- Intel core-i 5.

Frontend design

To complete the frontend design, I use the flutter framework. Flutter framework is very easy to use. It is easily understandable. Dart programming language is used for logical part. Dart is also easily understandable. I use here the concept of atomic design pattern. The concept of atomic design pattern is building every unique component and use them to make a complete project. Atomic design pattern increases the reusability of my code. I use here SVG picture package to display SVG files. I use here webview package to display official links of scholarships form browser.

Interaction design and user experience (UX)

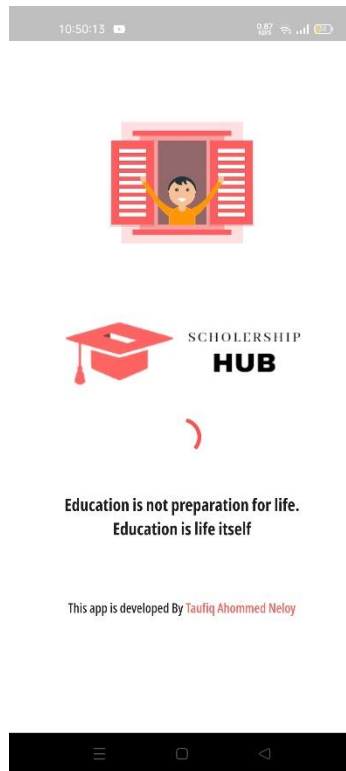


Figure 16: Splash screen

This is a splash screen. There is a loader. I set 3 second for loading time. There is a SVG picture at the top. I use an external package to add this picture. I also add logo and app name here. I also use some text that can create a positive impression. Also, user can get a touch about the application.

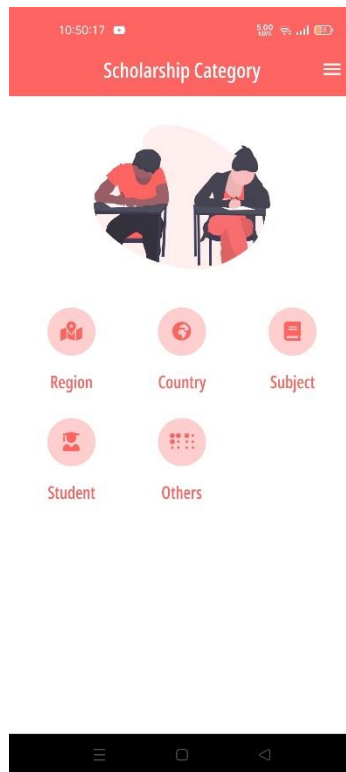


Figure 17: Landing page

This is the landing page of the app. There are some options for category wise scholarship and “Others” option is for university and scholarship ranking.

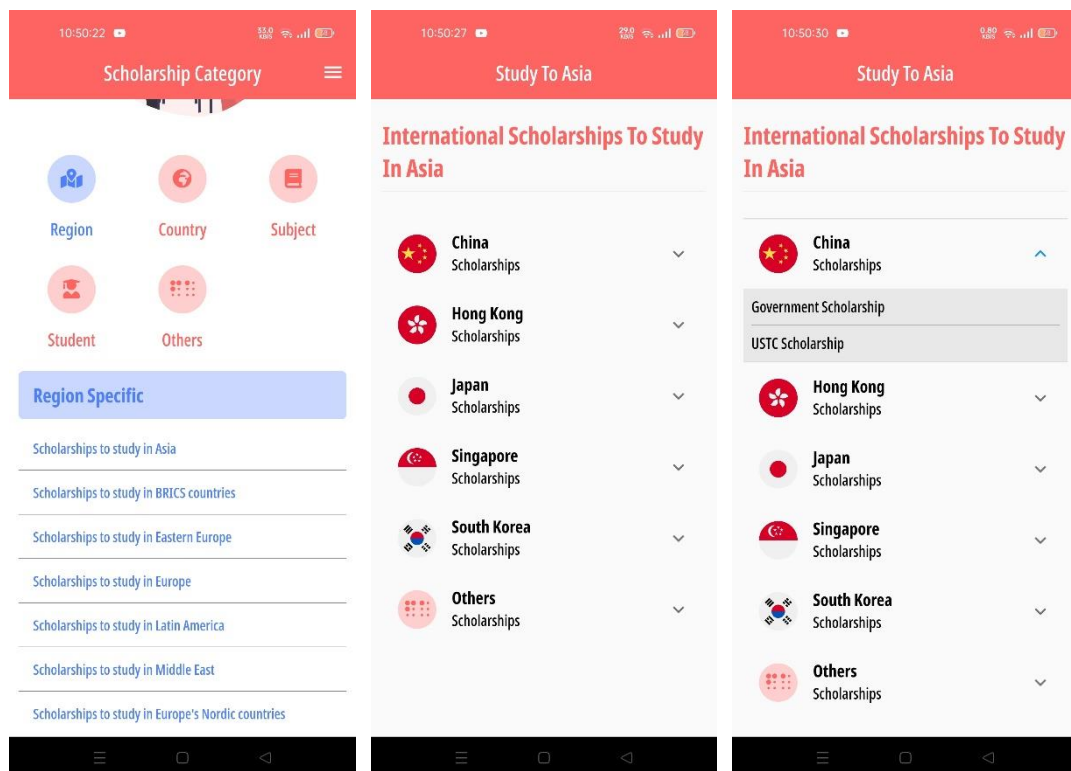


Figure 18: Scholarship list

There are 4 types of scholarship category. Each category has one list. Every list has another list which contain specific scholarships.

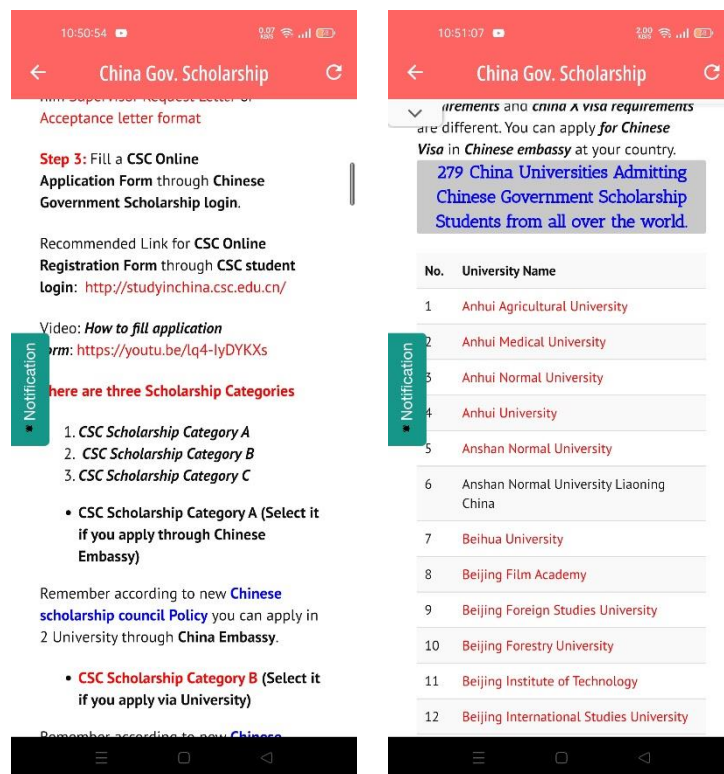


Figure 19: Chinese scholarship

Here are the details of Chinese scholarships. How to apply for a scholarship, Chinese top university list, how apply for each university, requirements for scholarships; every detail is here in this page. User can apply for scholarships from this page directly. Also, user have a lot of choice according to his or her qualification. If the page does not response 1st time, then there is a reloading button at top right inside app bar. User can tap on the reload button for refresh the page.

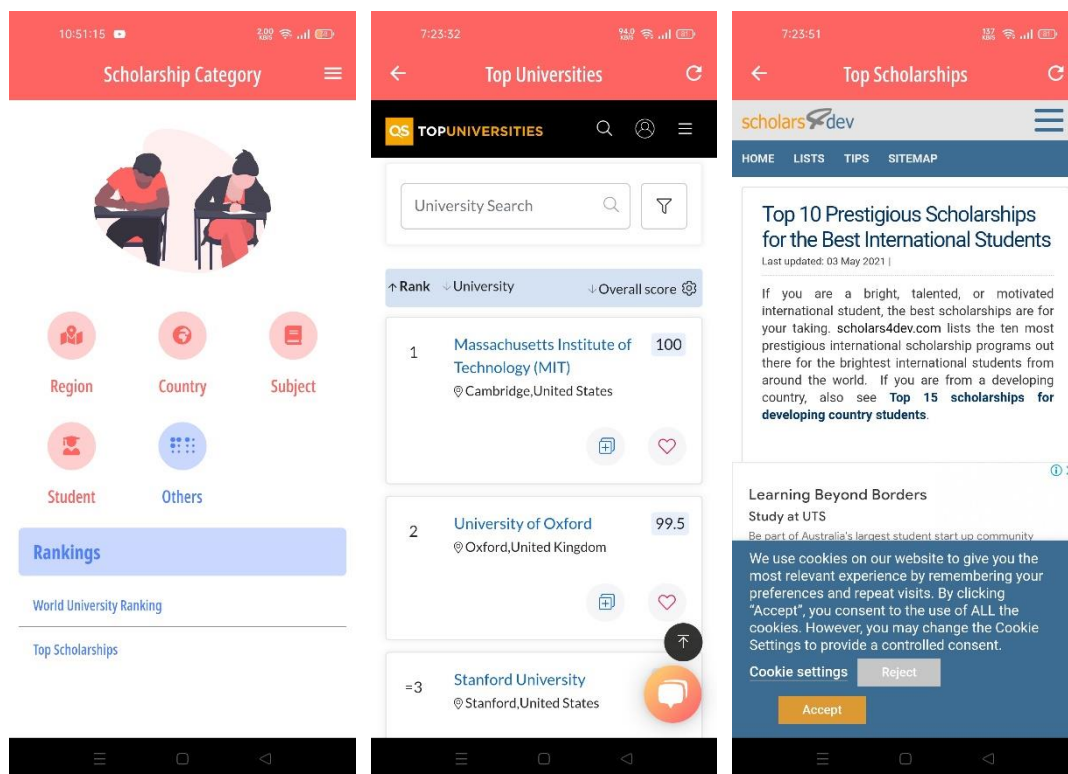


Figure 20: University and scholarship ranking

In this option there is a list for university ranking and scholarship ranking. User can see the list of top universities and scholarships. I use the QS website's information for ranking. This is very reliable site for ranking. This list will cheer up students to get scholarships in top universities. Because there is well enough information about every university, scholarships, applying process, requirements.

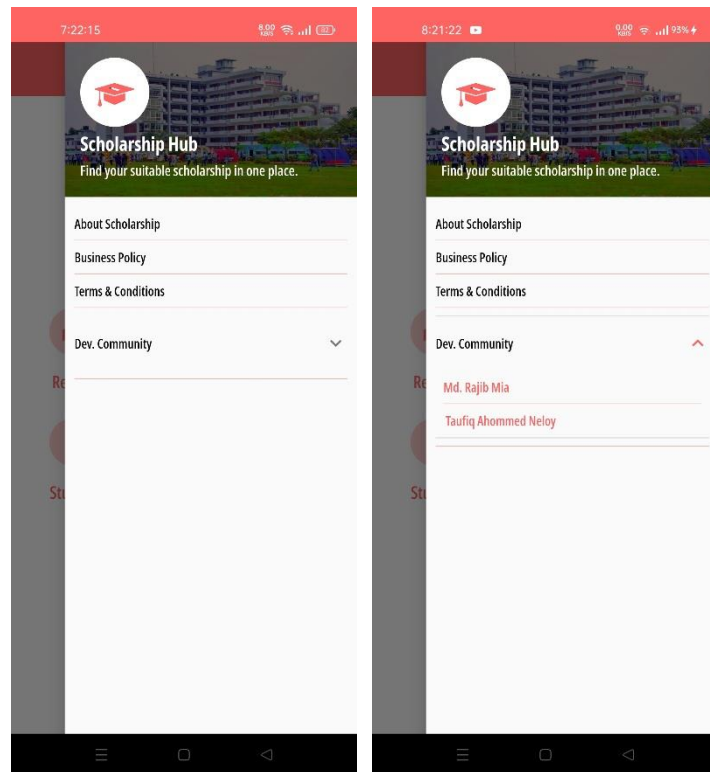


Figure 21: Side navbar

To make the app more user friendly I put the side navbar on the right side. Because most of the mobile users use right hand most of the time. There are some options in side navbar: about scholarship, business policy, terms and conditions, developer community. These options will help people to know about the application more.

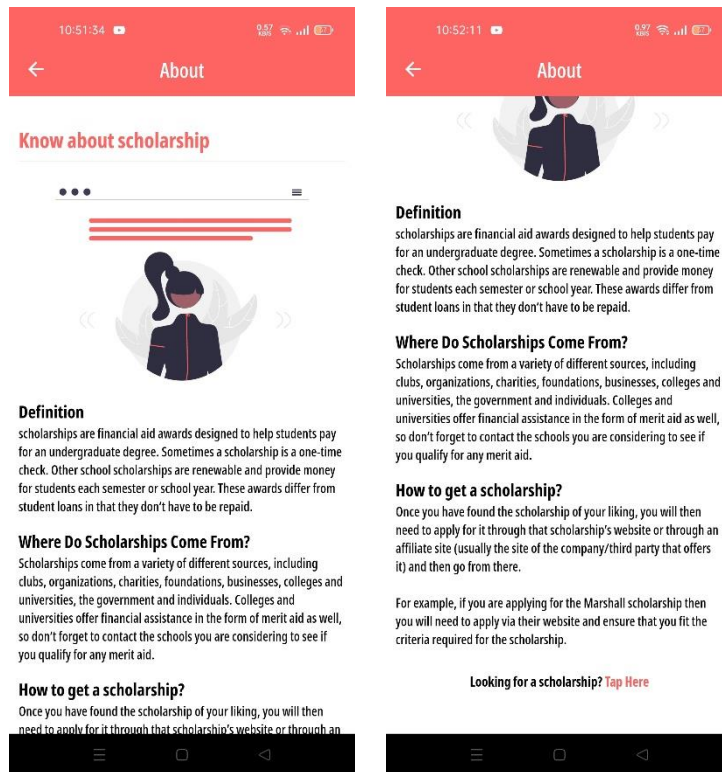


Figure 22: About scholarship

In this page, here is a short introduction about scholarship. Users can understand about scholarships. In the last, I redirect the landing page of my app and cover the action with a text: “Tap Here”.

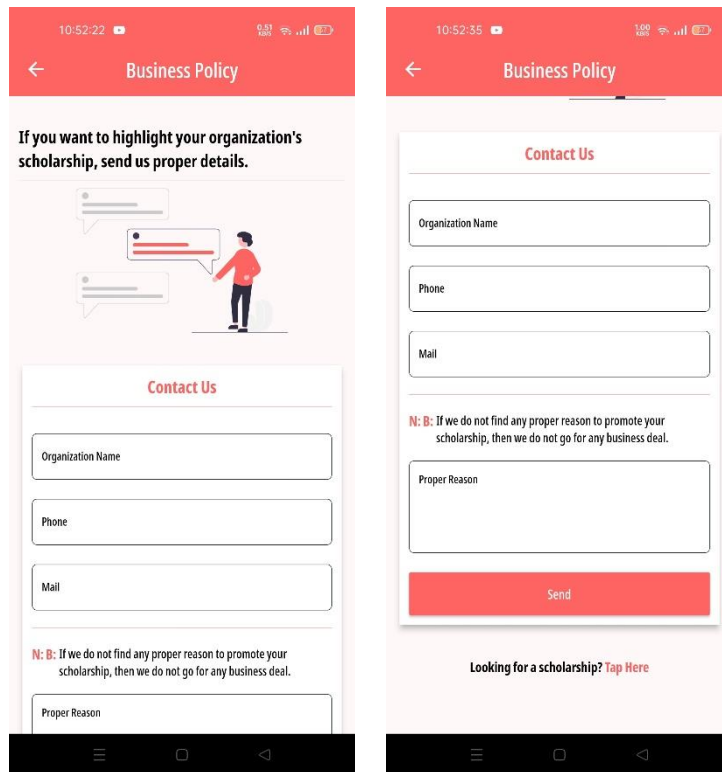


Figure 23: Business policy

If anyone want to highlight their organization's scholarship or universities then the organization need to send us proper details about why we should highlight there offer for scholarship or universities. If we find proper reason about that then we will go for business deal. Right now, we are using webview to show ranking list. In 2nd version we will add new modification about ranking and then this feature will be more effective for our app. Also this is depends on user response for business.

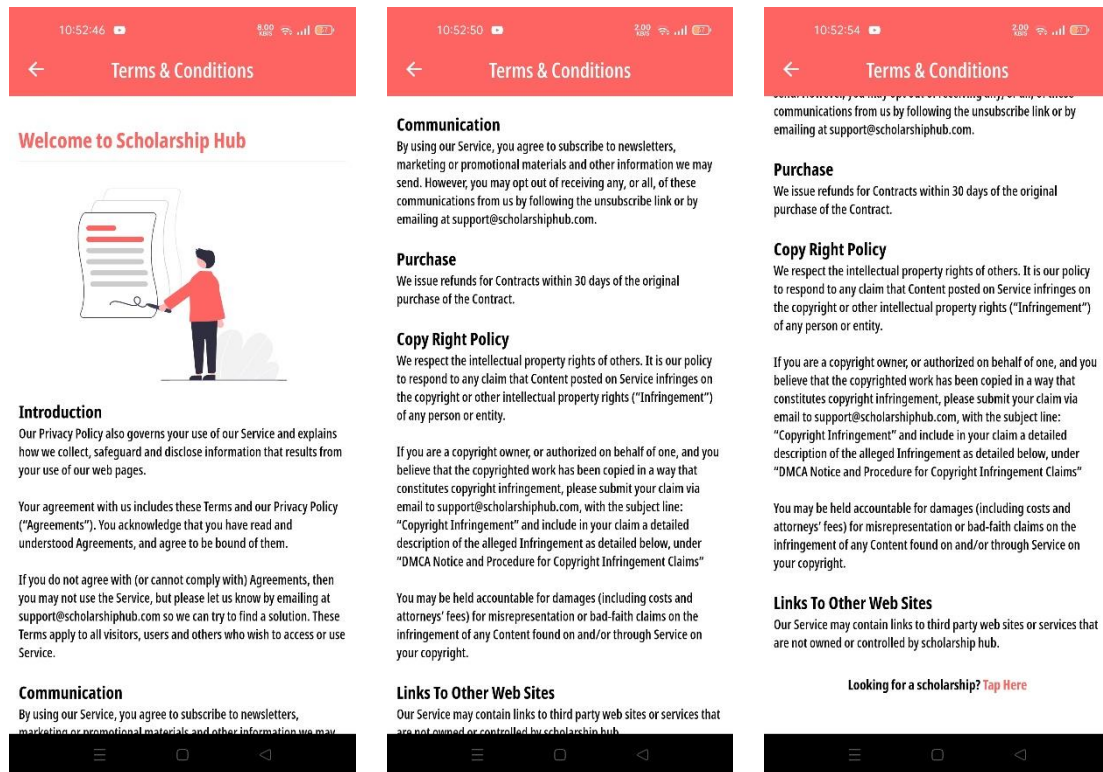


Figure 24: Term and condition

This page is for terms and condition of our app.

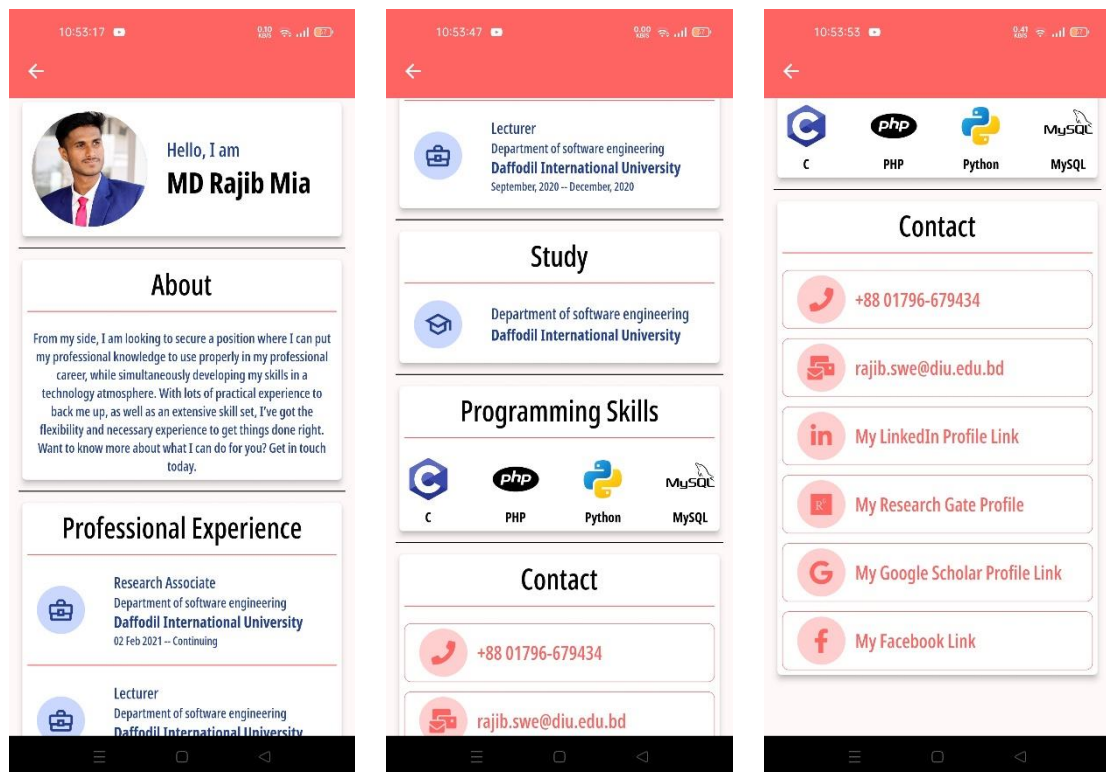


Figure 25: Founding member profile 1

Here I have added information about direct founding member of the system.

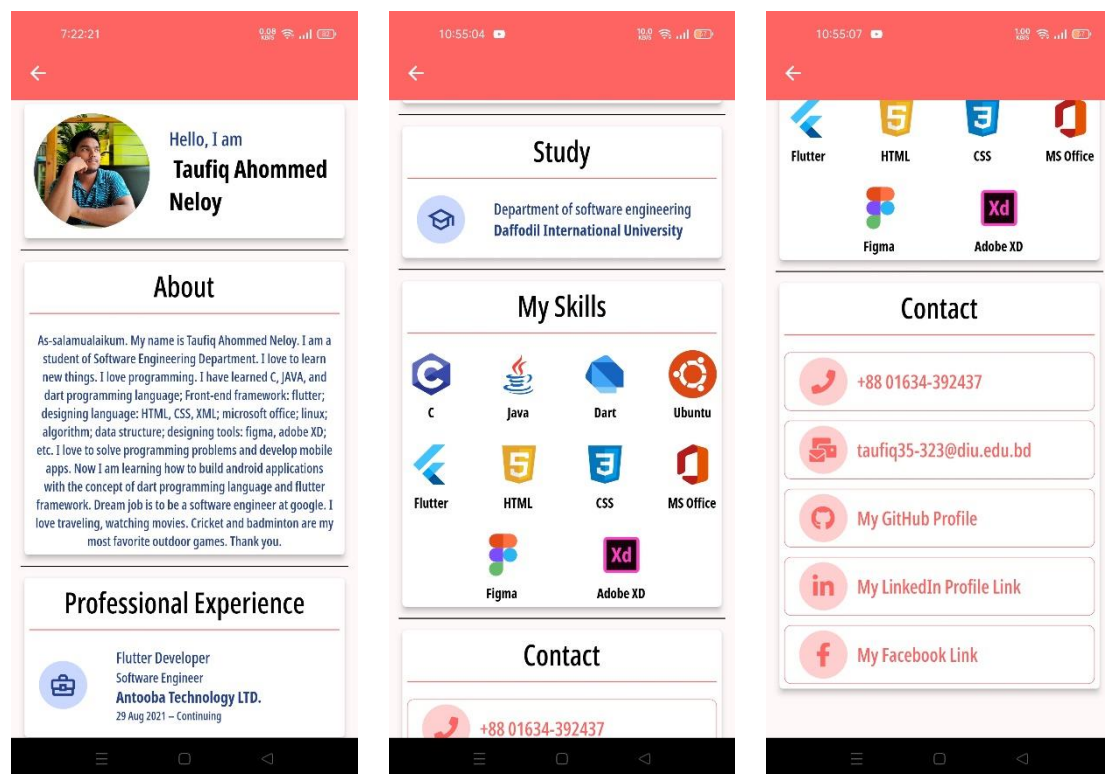


Figure 26: Founding member profile 2

This is another founding member profile.

Chapter 5: Testing

Introduction

This android application is an informative application. Users can find information about universities, scholarships. I have also added developer information, terms and conditions, business communication way. I have tested my system by following methods:

- System testing.
- Functional testing.
- Acceptance testing.

Tested features

TABLE 12: LIST OF TESTED FEATURES.

Features	Priority	Description
Scholarship list	3	The user must turn on the internet connection for the scholarship list.
Ranking list	2	The user must turn on the internet connection for the top universities, top scholarships list.
About section	1	The user needs to open the side navbar and tap on the about section.
Terms and condition section	1	The user needs to open the side navbar and tap on the terms and conditions section.
Business policy section	3	The user needs to open the side navbar and tap on the business policy section. Users can give input details on the text field and email us through the app.
Developer profile section	2	The user needs to open the side navbar and expand the dev. Community option. A list of the developers will appear. Each of the elements of the list contains a developer profile.

- For 1, Low priority.
- For 2, Medium priority.
- For 3, High priority.

Test result and report

TABLE 13: TEST FOR SCHOLARSHIP LIST

Test case 1			Test case name: Scholarship list check		
System: Scholarship Hub			Design date: 01/07/2021		
Design By: Taufiq Ahommed Nelay			Executed date: 03/07/2021		
Executed by: Taufiq Ahommed Nelay					
Short description: if the internet connection is on then the list will appear.					
Pre-condition: user must turn on the internet connection.					
Step	Action	Internet connection	Expected outcome	Actual outcome	Pass/Fail
1	Lunch application	Off	Scholarship list	No list	Fail
2	Lunch application	On	Scholarship list	Scholarship list	Pass

TABLE 14: TEST FOR UNIVERSITY AND SCHOLARSHIP RANKING LIST

Test case 2			Test case name: University and scholarship ranking list check		
System: Scholarship Hub			Design date: 02/07/2021		
Design By: Taufiq Ahommed Nelay			Executed date: 03/07/2021		
Executed by: Taufiq Ahommed Nelay					
Short description: if the internet connection is on then the list will appear.					
Pre-condition: user must turn on the internet connection.					
Step	Action	Internet connection	Expected outcome	Actual outcome	Pass/Fail
1	Open ranking list	Off	Ranking list	No list	Fail
2	Open ranking list	On	Ranking list	Ranking list	Pass

TABLE 15: TEST FOR SIDE NAVBAR

Test case 3		Test case name: Side navbar check		
System: Scholarship Hub		Design date: 07/07/2021		
Design By: Taufiq Ahommed Nelay		Executed date: 10/07/2021		
Executed by: Taufiq Ahommed Nelay				
Short description: there is a side navbar on the right side of the app.				
Pre-condition: Users need to tap on the menu button on the right side of the app bar.				
Step	Action	Expected outcome	Actual outcome	Pass/Fail
1	Tap on the menu button	Side navbar open	Side navbar open	Pass

TABLE 16: TEST FOR ABOUT SECTION

Test case 4		Test case name: About section check		
System: Scholarship Hub		Design date: 07/07/2021		
Design By: Taufiq Ahommed Nelay		Executed date: 11/07/2021		
Executed by: Taufiq Ahommed Nelay				
Short description: there is an option for about scholarship in the side navbar.				
Pre-condition: Users need open the side navbar and tap on about.				
Step	Action	Expected outcome	Actual outcome	Pass/Fail
1	Open side navbar and tap on about	Details about scholarship	Details about scholarship	Pass

TABLE 17: TEST FOR BUSINESS POLICY

Test case 5		Test case name: Business policy section check		
System: Scholarship Hub		Design date: 09/07/2021		
Design By: Taufiq Ahommed Nelay		Executed date: 14/07/2021		
Executed by: Taufiq Ahommed Nelay				
Short description: there is an option for business policy in the side navbar.				
Pre-condition: Users need to open the side navbar and tap on business policy.				
Step	Action	Expected outcome	Actual outcome	Pass/Fail
1	Open side navbar and tap on business policy	Business policy section open	Business policy section open	Pass

TABLE 18: TEST FOR TERMS AND CONDITION

Test case 6		Test case name: Terms and condition section check		
System: Scholarship Hub		Design date: 11/07/2021		
Design By: Taufiq Ahommed Nelay		Executed date: 15/07/2021		
Executed by: Taufiq Ahommed Nelay				
Short description: there is an option for terms and conditions in the side navbar.				
Pre-condition: Users need to open the side navbar and tap on terms and conditions.				
Step	Action	Expected outcome	Actual outcome	Pass/Fail
1	Open side navbar and tap on terms and condition	Terms and condition section open	Terms and condition section open	Pass

TABLE 19: TEST FOR TERMS AND CONDITION

Test case 7		Test case name: Developer profile check		
System: Scholarship Hub		Design date: 15/07/2021		
Design By: Taufiq Ahommed Nelay		Executed date: 25/07/2021		
Executed by: Taufiq Ahommed Nelay				
Short description: there is an option for the developer community which contains two developer profiles.				
Pre-condition: Users need to open the side navbar and tap on dev. community. Two developer profile options will appear. Tap on the names.				
Step	Action	Expected outcome	Actual outcome	Pass/Fail
1	Open the side navbar and tap on dev. Community to see available developer’s name and tap on any of the names.	Details about each developer.	Details about each developer.	Pass

Chapter 6: Impact on Society, Environment and Sustainability

Impact on Society

My project is an informative system for those who are looking for opportunities for foreign study. Many students want to go foreign for higher study, but they do not have enough information about universities and scholarships. My system will help those students with information about scholarship requirements, applying process, time limit of scholarship offers. I do not promote any wrong content in my system. My system's purpose is to help students, parents, teachers. I believe that my system can create a very good, positive impact on the society.

Impact on Environment

This system is just a software. People can use it on their android phones. There is no harmful issue in this system. So, the system is environment friendly.

We know that radiation that comes from phones is harmful to health and the environment, but also phone is very important for us for day-to-day life.

The system is not for time pass, so it does not require a lot of time for use. Unlike a game or time-killing social media app, this system will be very useful for users.

Ethical Aspects

This system has no illegal issue. We care about our user's data. All the tools and technology are legal for use. We also promote legal business through our app.

Sustainability plan

I have a sustainability plan for this system. I focus on helping people rather than profit.

- **Community sustainability:** This system can be very helpful for the student community, teacher community. The service the system provides is about scholarships, universities, requirements for higher studies. So, the system can create a great impact on these communities.
- **Financial sustainability:** Right now, I am working on this project with self-fund. Also, my supervisor is very helpful.

- Organizational sustainability: I am a student of Daffodil International University. I get a lot of helps and opportunities from my varsity. My supervisor is very helpful to me. So, this is possible to continue of the development of the project for a long time.

Chapter 7: Conclusion

Discuss and Conclusion

Education is the backbone of the nation. In the world, there are many bright students who are looking for better opportunities. The scholarship is a way to help those students who are qualified for higher studies and gives them the chance to study in the best universities. I want to help those who really love to gain knowledge but cannot do it for financial support. An appropriate scholarship can help them for further study and I try to help them by providing information about scholarships by my app.

Future Plan

- Add more scholarship details.
- Modify ranking list based on user response for business.
- Global launch.
- Admin panel.
- Web version.

GitHub Link

<https://github.com/Taufiq63569/Scholarship-Hub>

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