

Krishi Sohayota

SUPERVISED BY

Mr. Md. Khaled Shohel

Assistant Professor

DEPARTMENT OF SOFTWARE ENGINEERING

DAFFODIL INTERNATIONAL UNIVERSITY

SUBMITTED BY

Habibur Rahman

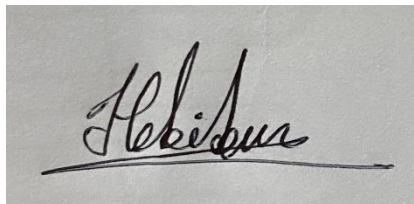
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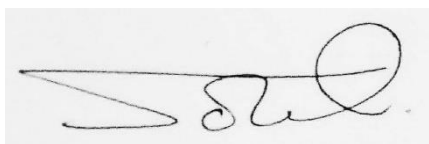
Declaration

I hereby declare that I have done this project under the supervision of Mr. Md. Khaled Sohel, assistant professor of Department of Software Engineering. Any part of this project is unique and developed by myself. This project has not been submitted elsewhere.



Habibur Rahman
181-35-2466
Department of Software Engineering
Faculty of Science and Information Technology
Daffodil International University

Certified By:



Mr. Md. Khaled Sohel
Assistant Professor
Department of Software Engineering
Faculty of Science and Information Technology
Daffodil International University

Approval

This thesis titled on “**Krishi Shohayota**”, submitted by **Habibur Rahman (ID: 181-35-2466)** 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.

BOARD OF EXAMINERS



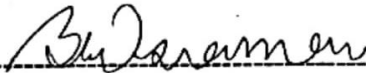
Dr. Imran Mahmud
Head and Associate Professor
Department of Software Engineering
Faculty of Science and Information Technology
Daffodil International University

Chairman



Md. Shohel Arman
Assistant Professor
Department of Software Engineering
Faculty of Science and Information Technology
Daffodil International University

Internal Examiner 1



Khalid Been Badruzzaman Biplob
Lecturer (Senior)
Department of Software Engineering
Faculty of Science and Information Technology
Daffodil International University

Internal Examiner 2



Md. Tanvir Quader
Senior Software Engineer
Technology Team
a2i Programme

External Examiner

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I am thankful to almighty I have reached this far in my university life. Lots of friends and teacher always motivated me to do something great. I gave got lots of help and guidelines for this project by my supervisor. I am very thankful for that.

Abstract

In the era of Digital Bangladesh, we are not providing enough our agriculture as much it needed though we are mostly depended on farmer for our regular need and also in aspect of exporting crops. As a result, our farmers a failing to fight with developed country in aspect of growing enough crops using modern technology as they are not literate enough. So, I decided to do something with my technology knowledge where farmers can easily contact the officials of government for any sort of problem related to disease, soil, water etc. I have designed a minimalistic user interface for contacting the authorities and submitting problems and they will be helped via this application if the solution can be provided remotely.

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Chapter 1: Introduction

1.1. Project title

“কৃষি সহায়তা”

1.2. Idea

This is a mobile application for both IOS and Android OS. It has built for the farmer only considering the problems they may face with cultivation. A farmer may face issue while cultivating crops or paddy with soil, water, seeds etc. If they face issue, they can type the description of the problem and take a photo for more clearance and send it to govt. authority. The authority checks the issue and provide a solution considering the problem. One can see other problem that has given a solution so that they can take some steps from the very beginning.

1.3. Motivation

The COVID-19 situation motivated me to do something like this while every country of the world was busy with inventing a vaccine for this, where some poor people were fighting with food. Even most of the shops were empty for the scarce of sufficient food and nutrition's. Again, once upon a time we cultivated our essentials by our own and sell the extras. But nowadays, we are more focused with job, buildings, tech society where general people is not considering the major issue that from where will the food come from in nearest future.

1.4. Goals of the project

The goal of this application is digitalizing the agriculture day by day and serve the newly invented seeds for more crops, vegetables, paddy etc. Also trying to make less loss to farmer for different type of difficulties. This is a little step from me for now and I will come with vast amount of resource depending on what farmer and authority people demanding.

1.5. Scope

Considering the overall system and features this application is meant to offer digitalization to agriculture which we need more earlier.

1.6. Overview

With the help of my respected supervisor and so many beloved people I have tried to fulfill this application for our farmer and tried to minimize the communication gap between farmer and government employee. By this application each farmer does not need to visit any sort of office and also office employee does not need to come to each area to provide support. Every farmer can submit their problems and a known person from government can suggest solution and even every farmer can see other people problem with their farming and this is how one can find any sort of solution from this list. Farmer can get latest news about new invention of seeds and also can be aware of new diseases and take necessary steps to prevent those difficulties.

1.7. Glossary

Here are some keywords that I used in this paper. Going through this will help you to understand those terms.

Sl. No	Term	Definition
Term-01	Stakeholder	A stakeholder is a party that has an interest in a company and can either affect or be affected by the business. The primary stakeholders in a typical corporation are its investors, employees, customers, and suppliers.
Term-02	End-User	In product development, an end user (sometimes end-user) is a person who ultimately uses or is intended to ultimately use a product.
Term-03	Use Case	A use case is a written description of how users will perform tasks on your website. It outlines, from a user's point of view, a system's behavior as it responds to a request.
Term-04	SRS	A software requirements specification (SRS) is a document that describes what the software will do and how it will be expected to perform. It also describes the functionality the product needs to fulfill all stakeholders (business, users) needs.
Term-05	FR	Functional requirement
Term-06	NFR	Nonfunctional requirement

1.8. Project Planning

After the project has been defined and the project team has been selected, we are ready to enter the second phase in the project management life cycle.

Project planning is the heart of the project life cycle, and tells everyone involved where you are going and how you are going to get there. The basic processes of project planning that we considered are

1. Preparation of the work
2. Project schedule development
3. Resource planning
4. Budget planning

ID	Task	Working Date	Time (Days)	Dependencies
T1	Requirement gather	01-03-2022 – 31-03-2022	31	
T2	Analysis	01-04-2022 – 20-04-2022	21	T1
T3	Re-gather and analysis revision	20-04-2022 – 30-05-2022	40	T1, T2, T3
T4	Feasibility Study	01-06-2022 – 20-06-2022	20	T3
T5	Diagrams	30-06-2022 – 10-07-2022	11	T3
T6	UI creating	11-07-2022 – 05-08-2022	26	T5
T7	Firebase	07-08-2022 – 15-08-2022	08	T5
T8	Include all info into documentation	15-08-2022 – 20-08-2022	05	T5, T6, T7
T9	Integrate frontend with backend	21-08-2022 – 10-09-2022	21	T5, T6, T7
T10	Testing	11-09-2022 – 25-09-2022	14	T6, T7, T9
T11	Completing documentation	26-09-2022 – 28-09-2022	3	T1-T10
T12	Final defense	15-10-2022		T11

Chapter 2: Requirement Specification

Requirement is something that is needed or that must be done. As we are deploying this webbased software, the requirements are given below are from scratch and if our customer need more we will obviously provide them after the next maintenance.

2.1. Functional Requirements

1. Functional authentication for all stakeholder
2. Logout
3. Problem category
4. Submit a problem
5. News portal
6. Problem dashboard
7. Give a solution
8. Notification
9. FAQ
10. Privacy policy
11. Personal profile
12. Report analysis
13. Live message

2.2. Non-functional Requirements

1. Filtering any section depending on required condition
2. Security: The software must remain resilient in the face of attacks like DOS attack or SQLi and XSS/CSRF protected.
3. Accessibility: People with the widest range of capabilities can use the system.
4. Availability: The system is able to function during normal operating times.
5. Confidentiality: The system protects sensitive data and allows only authorized access to the data.
6. Efficiency: The data are maintained by the software system in terms of accuracy, authenticity and without corruption.
7. Reliability: The software system consistently performs the specified functions without failure.
8. Safety: The system prevents harm to people or damage to the environment.
9. Survivability: The system continues to function and recovers in the presence of a system failure.
10. Usability: The user is able to learn operate, prepare inputs and interpret outputs through interaction with a software system.

2.3. User Characteristics

2.3.1. Farmer—

1. profile
2. Live messaging
3. View other solved problems
4. Submit new problems
5. Own submitted problems
6. Edit, delete my problems
7. View latest news

2.3.2. Government—

1. View submitted problems
2. Provide solution
3. Post latest news
4. Analysis report
5. Live messaging

2.4. System Requirement Specification

2.4.1. Authentication

Overview	
ID	SRS - 01
Requirement title	Functional Authentication
Requirement type	FR
Priority	High

2.4.2. Logout

Overview	
ID	SRS – 02
Requirement title	Logout
Requirement type	FR
Priority	High

2.4.3. Problem category

Overview	
ID	SRS – 03
Requirement title	Problem category
Requirement type	FR
Priority	High

2.4.4. Submit a problem

Overview	
ID	SRS - 04
Requirement title	Submit a problem
Requirement type	FR
Priority	High

2.4.5. News portal

Overview	
ID	SRS - 05
Requirement title	News portal
Requirement type	FR
Priority	High

2.4.6. Problem dashboard

Overview	
ID	SRS - 06
Requirement title	Problem dashboard
Requirement type	FR
Priority	High

2.4.7. Give a solution

Overview	
ID	SRS - 07
Requirement title	Give a solution
Requirement type	FR
Priority	High

2.4.8. Notification

Overview	
ID	SRS - 08
Requirement title	Notification
Requirement type	FR
Priority	High

2.4.9. FAQ

Overview	
ID	SRS - 09
Requirement title	FAQ
Requirement type	FR
Priority	High

2.4.10. Privacy policy

Overview	
ID	SRS - 10
Requirement title	Privacy policy
Requirement type	FR
Priority	High

2.4.11. Personal profile

Overview	
ID	SRS - 11
Requirement title	Personal profile
Requirement type	FR
Priority	High

2.4.12. Report analysis

Overview	
ID	SRS - 12
Requirement title	Report analysis
Requirement type	FR
Priority	High

2.4.13. Live message

Overview	
ID	SRS - 13
Requirement title	Live message
Requirement type	FR
Priority	High

2.5. Non-functional requirements

2.5.1. Filtering

Overview	
ID	SRS - 14
Requirement title	Filtering
Requirement type	NFR

2.5.2. Security

Overview	
ID	SRS - 15
Requirement title	Security
Requirement type	NFR

2.5.3. Accessibility

Overview	
ID	SRS – 16
Requirement title	Accessibility
Requirement type	NFR

2.5.4. Availability

Overview	
ID	SRS – 17
Requirement title	Availability
Requirement type	NFR

2.5.5. Confidentiality

Overview	
ID	SRS – 18
Requirement title	Confidentiality
Requirement type	NFR

2.5.6. Efficiency

Overview	
ID	SRS – 19
Requirement title	Efficiency
Requirement type	NFR

2.5.7. Reliability

Overview	
ID	SRS – 20
Requirement title	Reliability
Requirement type	NFR

2.5.8. Survivability

Overview	
ID	SRS – 21
Requirement title	Survivability
Requirement type	NFR

2.5.9. Usability

Overview	
ID	SRS – 22
Requirement title	Usability
Requirement type	NFR

2.5.10. Safety

Overview	
ID	SRS – 23
Requirement title	Safety
Requirement type	NFR

Chapter 3: System Analysis, Design & Specification

3.1. Software specification

The stages are given below:

- 3.1.1. Feasibility studies: the user's need is assessed to ensure that current technologies can adequately handle them, they are cost-effective and they are within the limits of the overall budget.
- 3.1.2. Requirement's analysis: This involves stipulating system requirements from existing systems, potential user's inputs and further analysis.
- 3.1.3. Requirement's specification: At this stage, all the information gathered so far is translated into a document that clearly states all the system requirements including the users' stated requirements and the detailed system functionalities.
- 3.1.4. validation: This stage checks that the requirements developed are consistent and complete.

3.2. Use Case



Figure: Use case diagram of stakeholder

Description

An applicant has several options to choose like--

- I. Users can authenticate and update his/her profile.
- II. Government can organize the problem into some category
- III. Farmers can submit a problem
- IV. User from government side can add news and both stakeholders can view news V.
User from government side can provide solution to each submitted problem VI.
Farmer will be notified

3.3. Use Case Flow, Stakeholder, Conditions

3.3.1. Authentication

Overview	
Use case	Authentication
Description	Authenticate real user of this system by considering given credentials
Actors	All stakeholder
Initial status and precondition	1. Stable internet connection 2. Must be on login or sign-up page and should be at unauthenticated state
Basic Flow	STEP-1: Visit Landing page STEP-2: Click on login if have an account otherwise, click on sign up STEP-3: Input all credentials correctly STEP-4: click on login or signup button
Post condition	Logged you in the system as a valid user and will be shown a landing page from where one can visit each page as he/she need

3.3.2. Problem category

Overview	
Use case	Problem category
Description	Government can organize the problem into some category and farmer can explore these
Actors	All stakeholder
Initial status and precondition	1. Stable internet connection
Basic Flow	STEP-1: Visit home page

3.3.3. Problem Submit

Overview	
Use case	Problem Submit
Description	Farmers can submit a problem
Actors	Farmer
Initial status and precondition	1. Stable internet connection 2. Must be logged in as farmer 3. Fulfill all required input field to explain a problem and submit
Basic Flow	STEP-1: Click on Submit Problem STEP-3: Choose category and input all data correctly STEP-4: click on submit button
Post condition	Farmer will be redirected to his/her problem list

3.3.4. News portal

Overview	
Use case	News portal
Description	User from government side can add news and both stakeholders can view news
Actors	Farmer
Initial status and precondition	1. Stable internet connection 2. Must be on logged in
Basic Flow	STEP-1: Visit Landing page STEP-2: Click on News

3.3.5. Update News Portal

Overview	
Use case	News portal
Description	User from government side can add news and both stakeholders can view news
Actors	Government
Initial status and precondition	1. Stable internet connection 2. Must be on logged in
Basic Flow	STEP-1: Visit Update or Add News page STEP-2: Click on add news STEP-3: Provide all data correctly STEP-4: click on publish button
Post condition	Redirected to news list page to show all published news

3.3.6. Update Dashboard

Overview	
Use case	Dashboard
Description	Update his/her profile.
Actors	All stakeholder
Initial status and precondition	1. Stable internet connection 2. Must be on logged in
Basic Flow	STEP-1: Visit dashboard page STEP-2: Click on edit personal info STEP-3: Input all credentials correctly STEP-4: click on update button
Post condition	Redirected to dashboard page with updated info

3.3.7. Suggest Solution

Overview	
Use case	Suggest solution
Description	User from government side can provide solution to each submitted problem
Actors	Government
Initial status and precondition	1. Stable internet connection 2. Must be on logged in
Basic Flow	STEP-1: Visit unsolved issue page STEP-2: Click on a problem to provide solution STEP-3: Input all information correctly STEP-4: click on finish button
Post condition	Redirected to latest given solution page

3.3.8. Notify Farmer

Overview	
Use case	Notificaiton
Description	Farmer will be notified
Actors	All stakeholder
Initial status and precondition	1. Stable internet connection 2. Must be on logged in
Basic Flow	STEP-1: Visit Landing page STEP-2: Check notification icon to observe new notification
Post condition	View the notification list depending on different sort of activities

3.4. Activity Diagram

3.4.1. Authentication

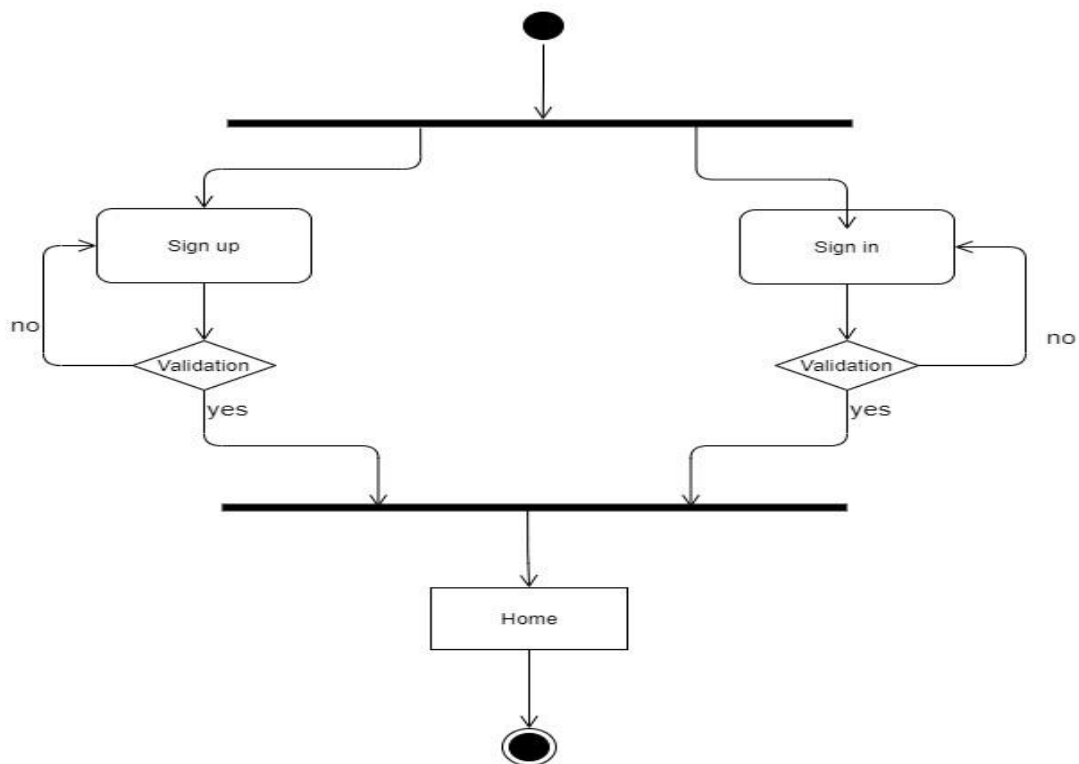


Figure: Activity Diagram for authentication

3.4.2. Problem Submission with category

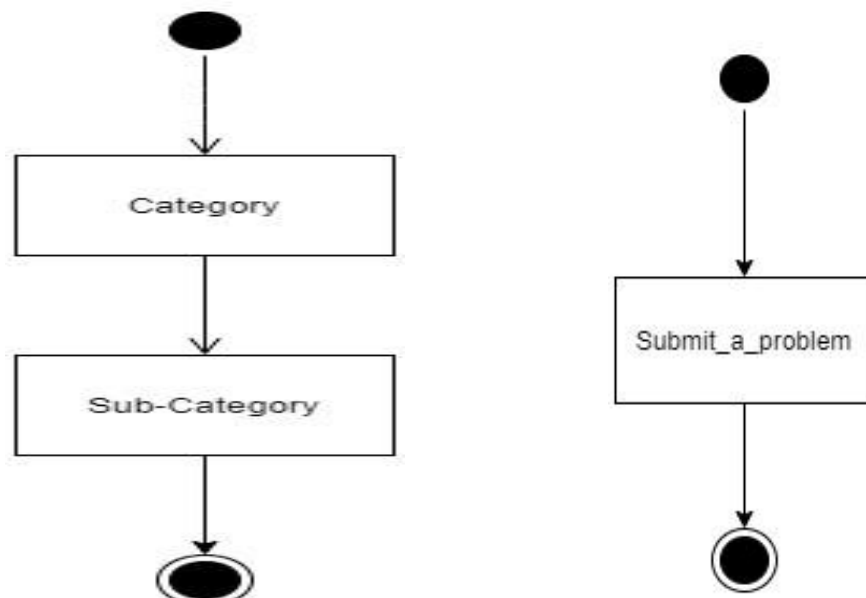


Figure: Activity Diagram for problem submission with category

3.4.3. News Portal

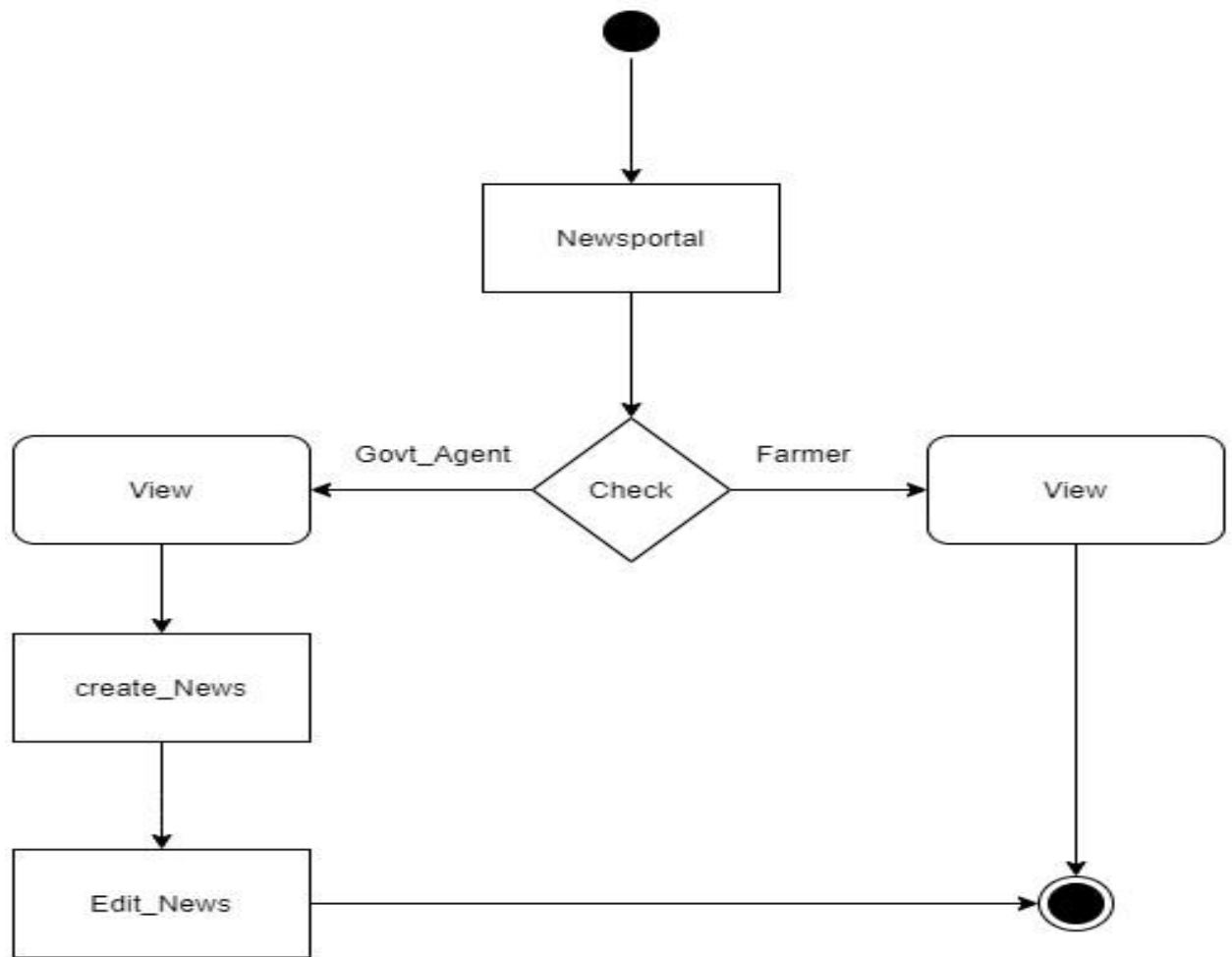


Figure: Activity Diagram for News portal

3.4.4. Dashboard and Problem Details

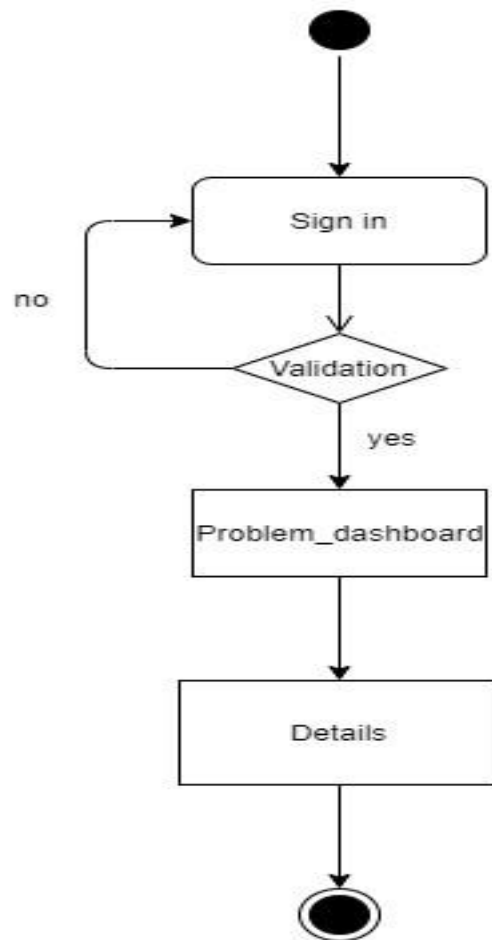


Figure: Activity Diagram for Dashboard

3.4.5. Provide Solution

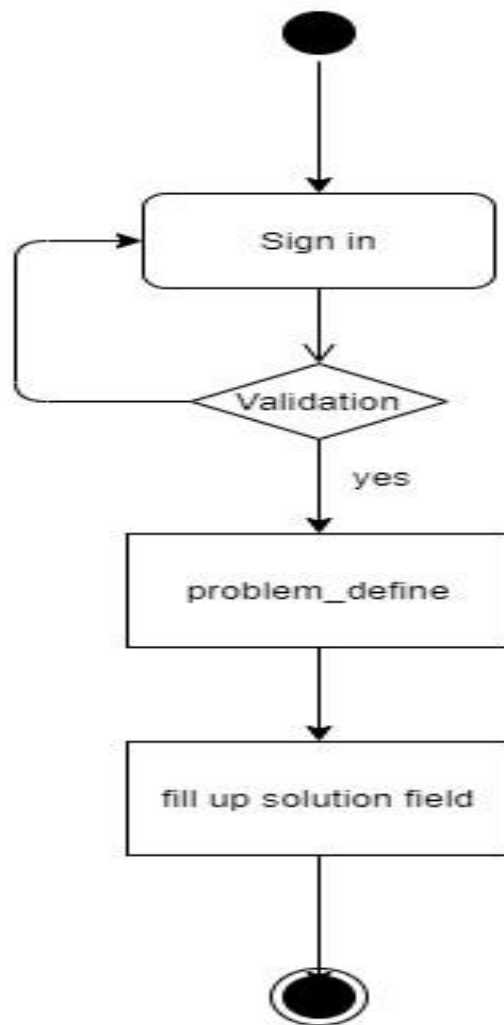


Figure: Activity Diagram for solution

3.4.6. Notification Access

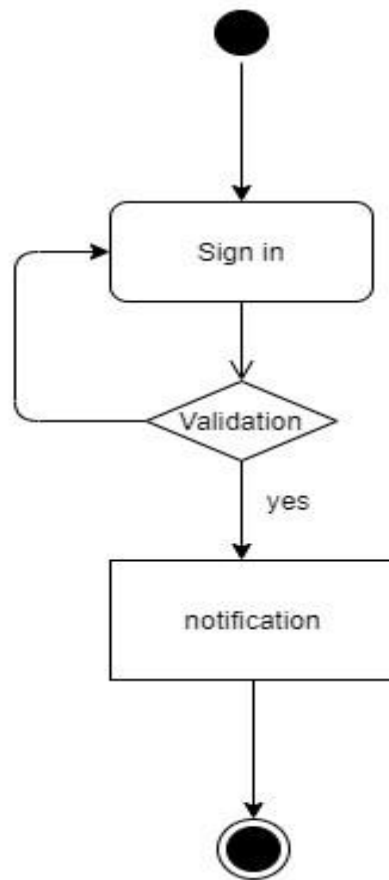


Figure: Activity Diagram for Notification

3.4.7. Logout

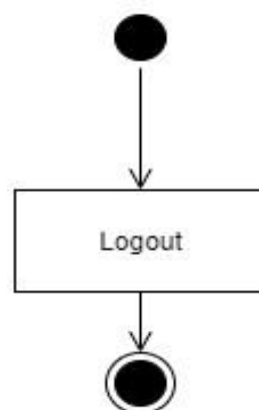


Figure: Activity Diagram for Logout

3.5. Sequence Diagram

3.5.1. Sign up

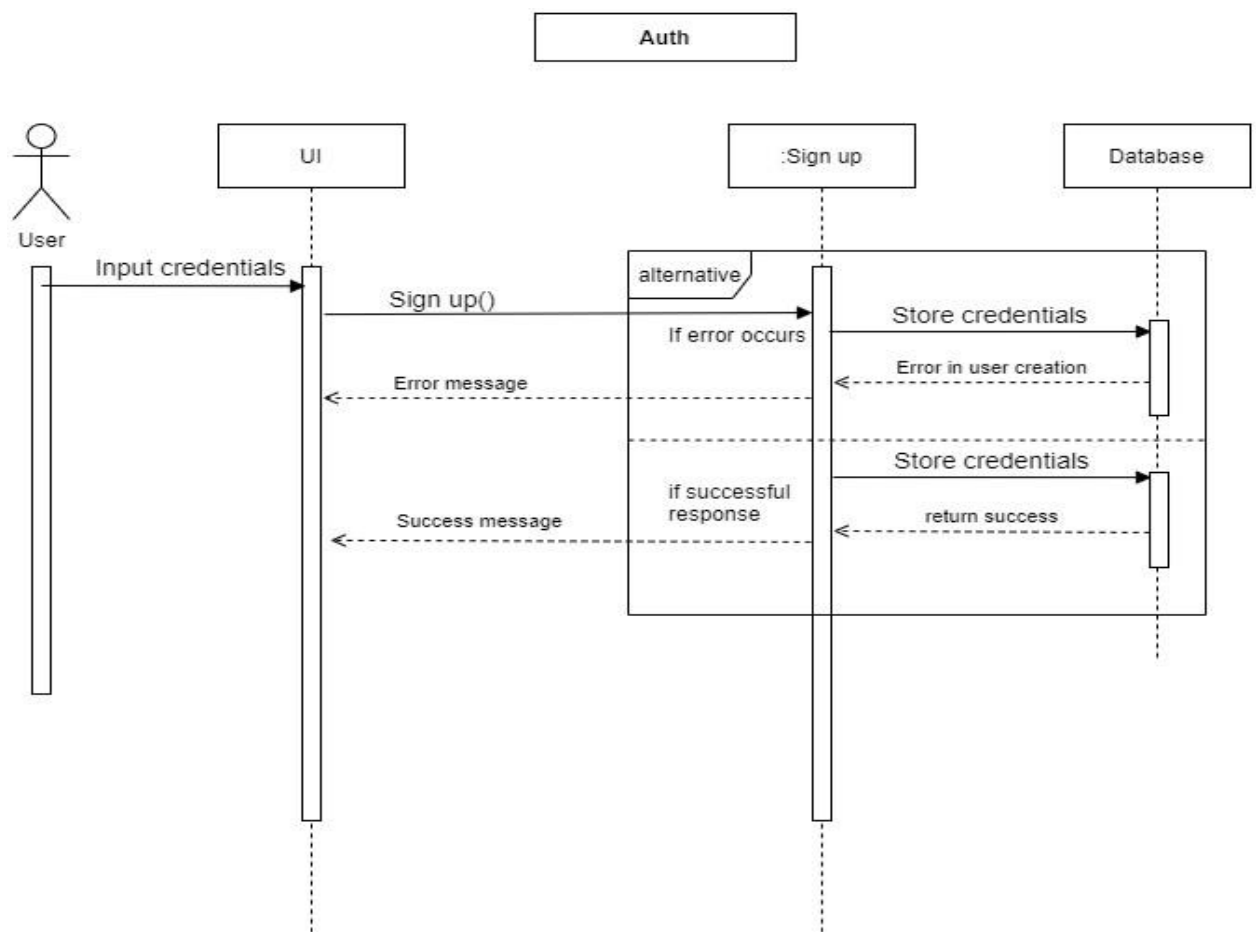


Figure: Sequence Diagram for signup

3.5.2. Sign in

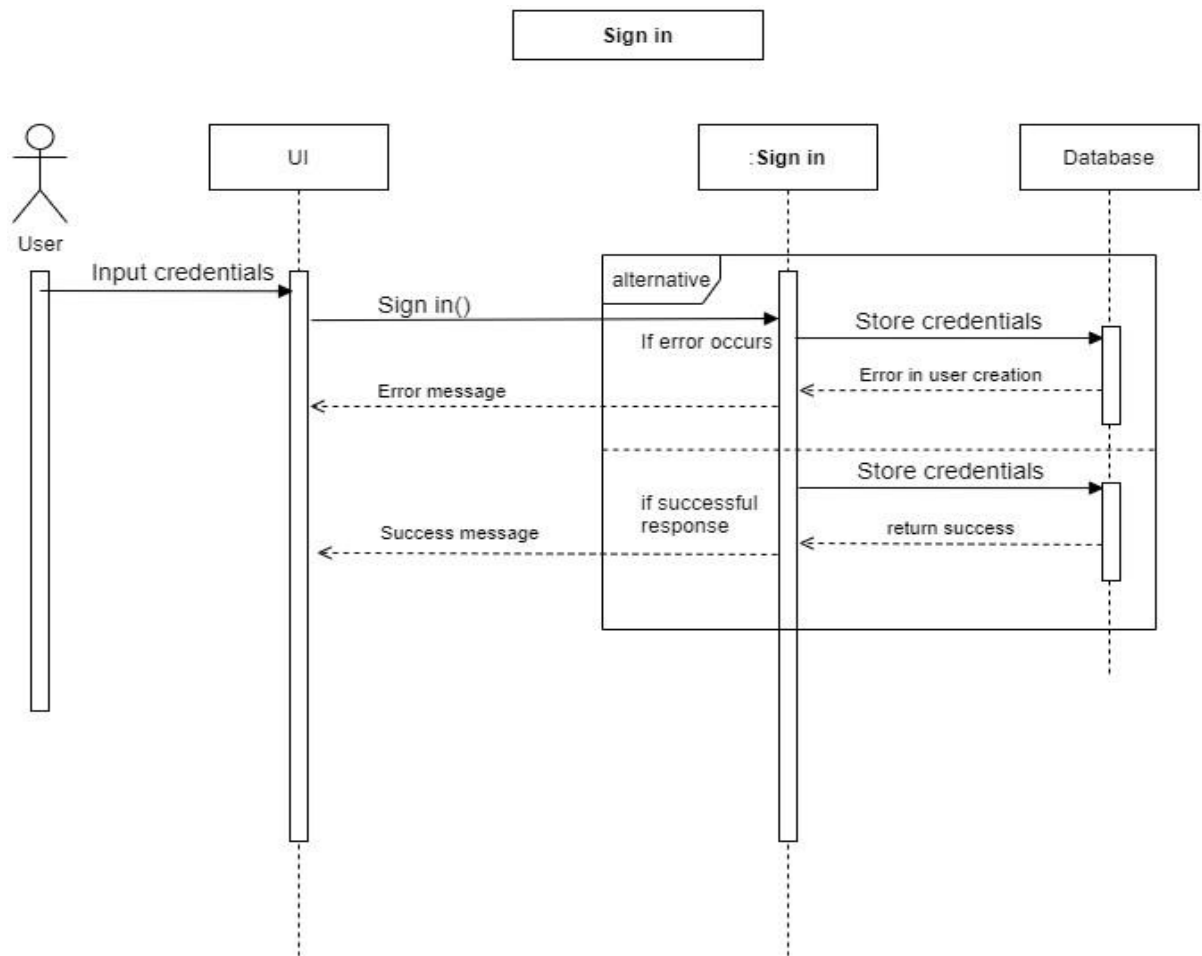


Figure: Sequence Diagram for sign in

3.5.3. Choosing category

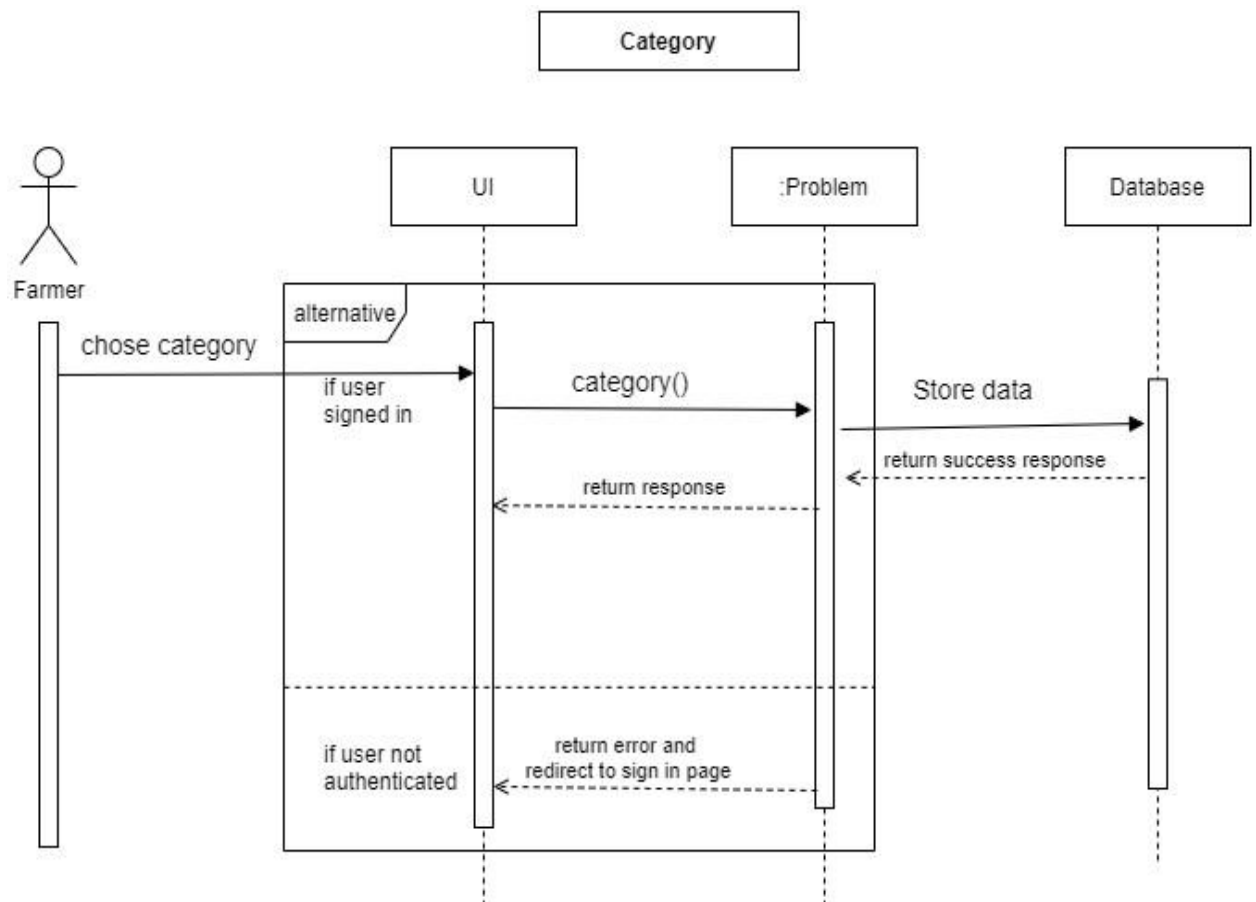


Figure: Sequence Diagram for category

3.5.4. Submitting Problem

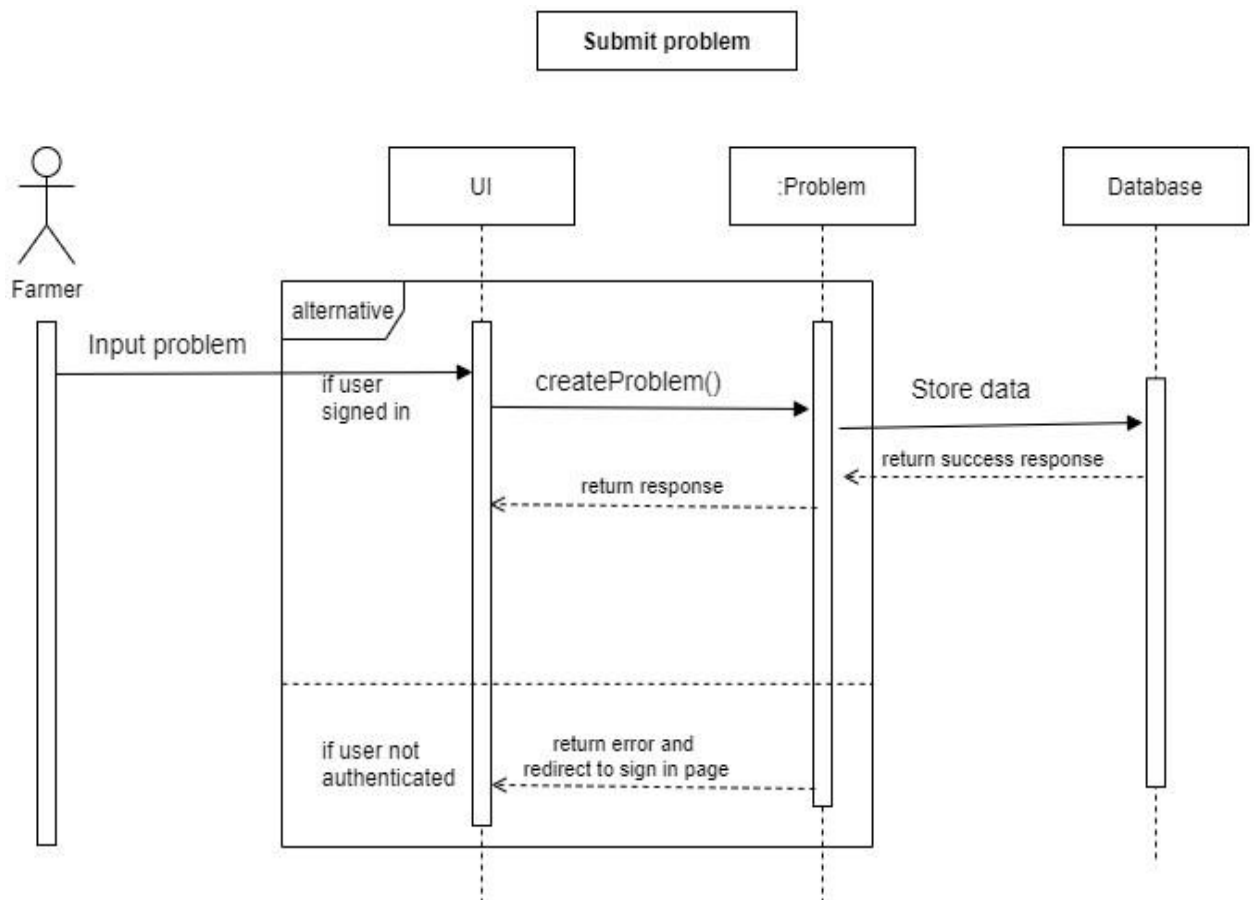


Figure: Sequence Diagram for problem submit

3.5.5. News

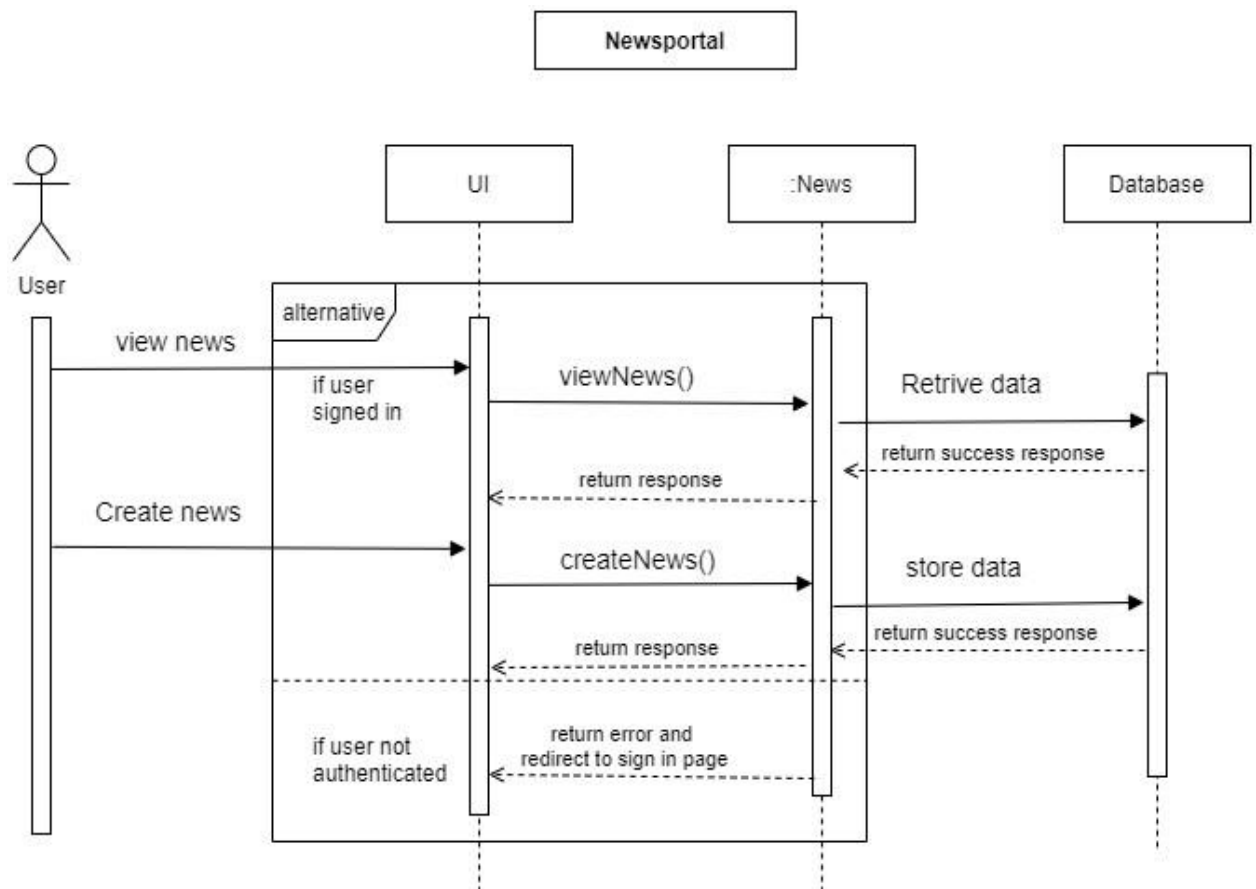


Figure: Sequence Diagram for news portal

3.5.6. Dashboard & Profile Details

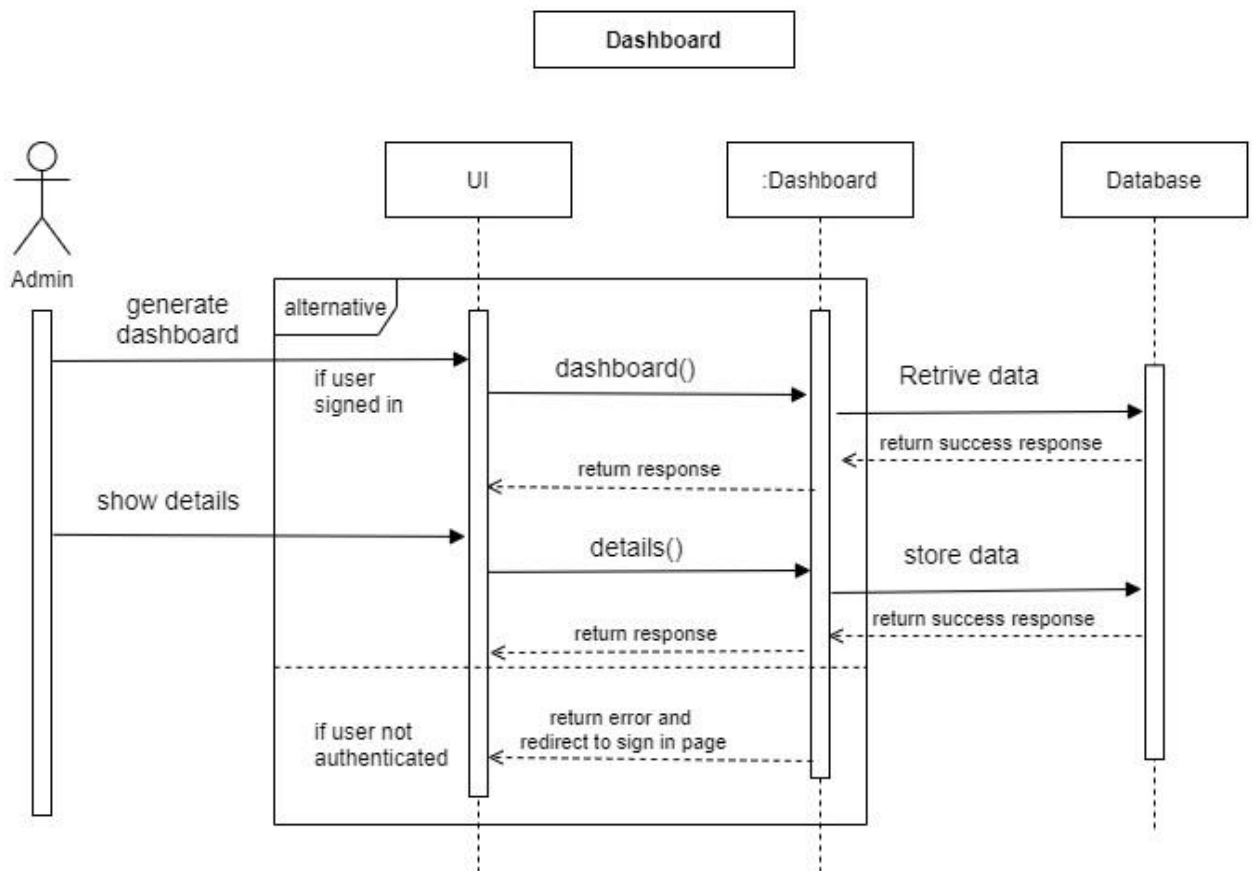


Figure: Sequence Diagram for dashboard

3.5.7. Provide Solution

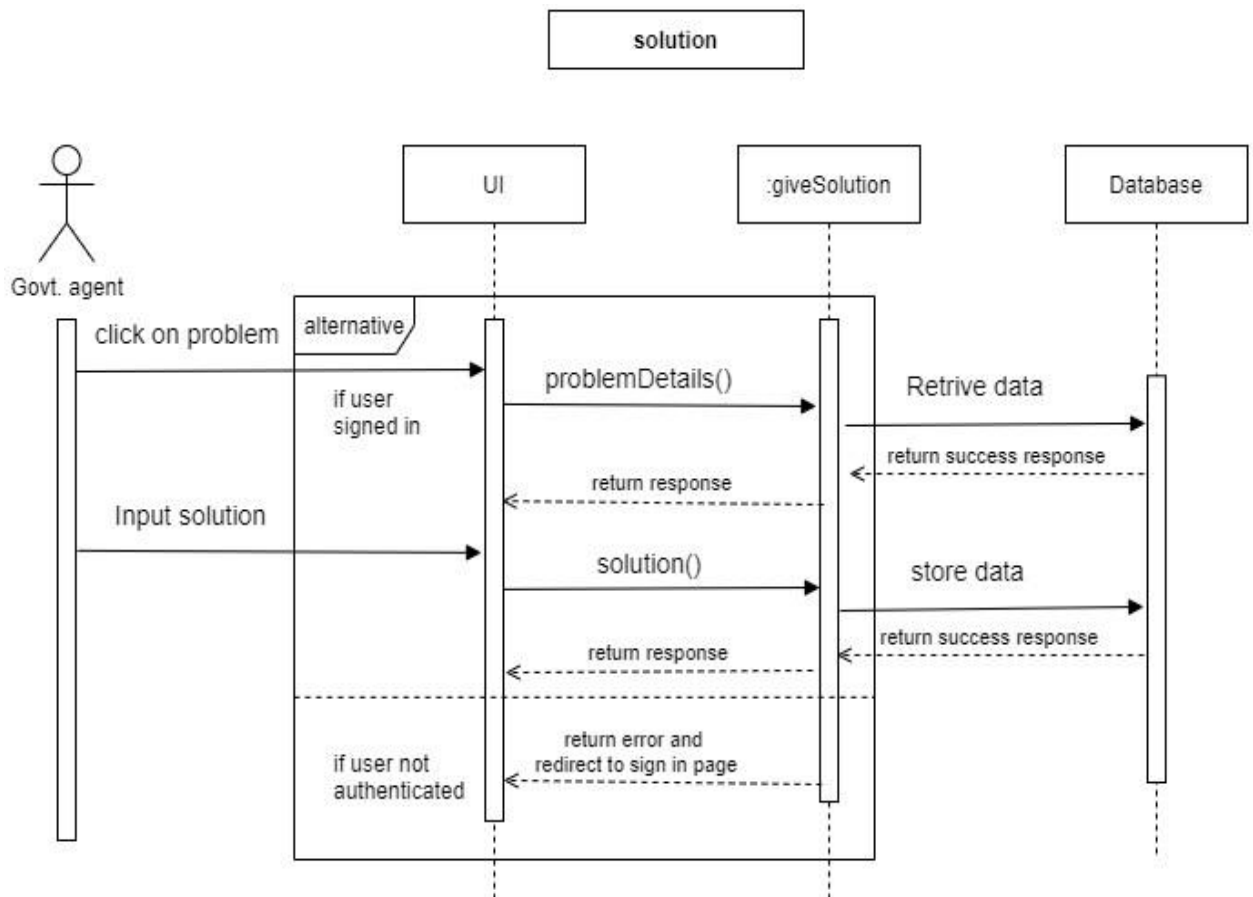


Figure: Sequence Diagram for authentication

3.5.8. Notification

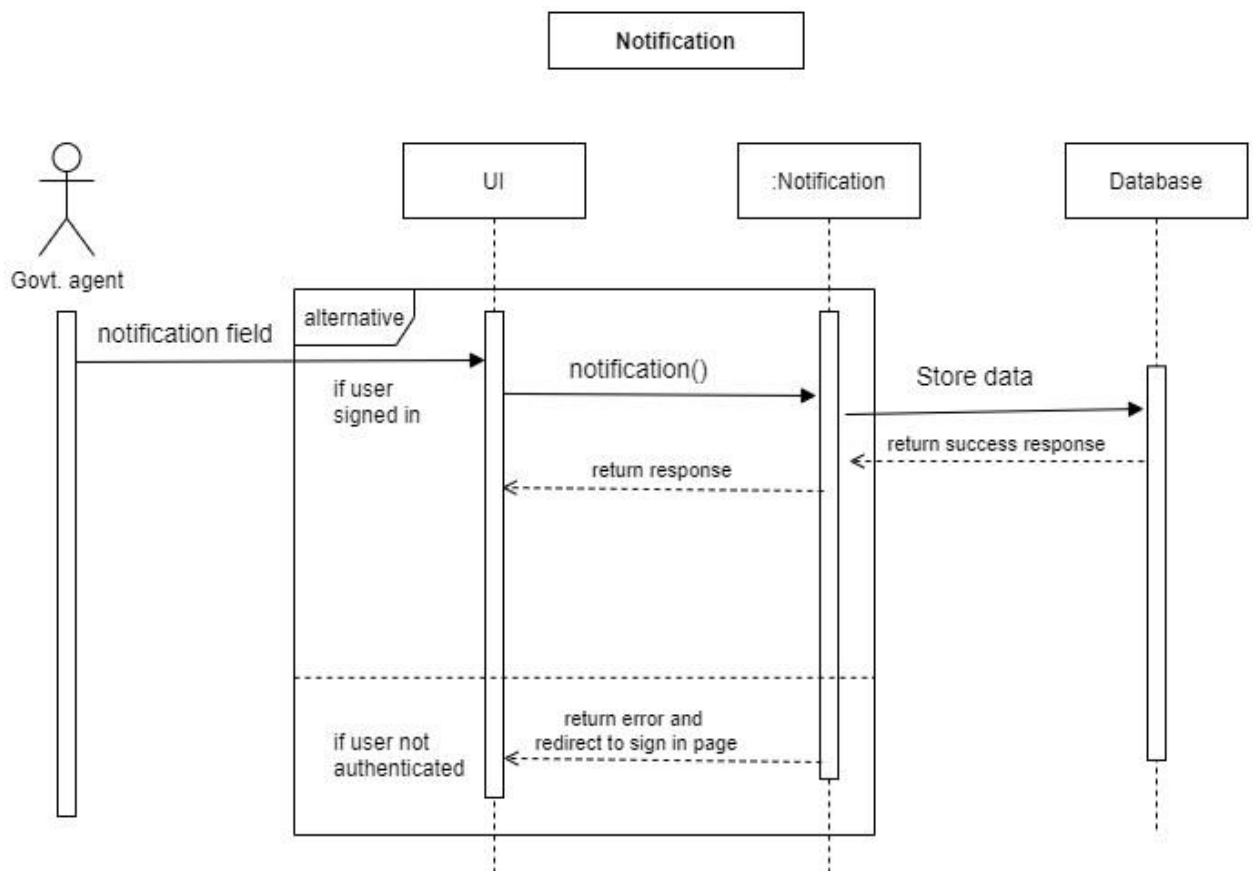


Figure: Sequence Diagram for notificaiton

3.5.9. Logout

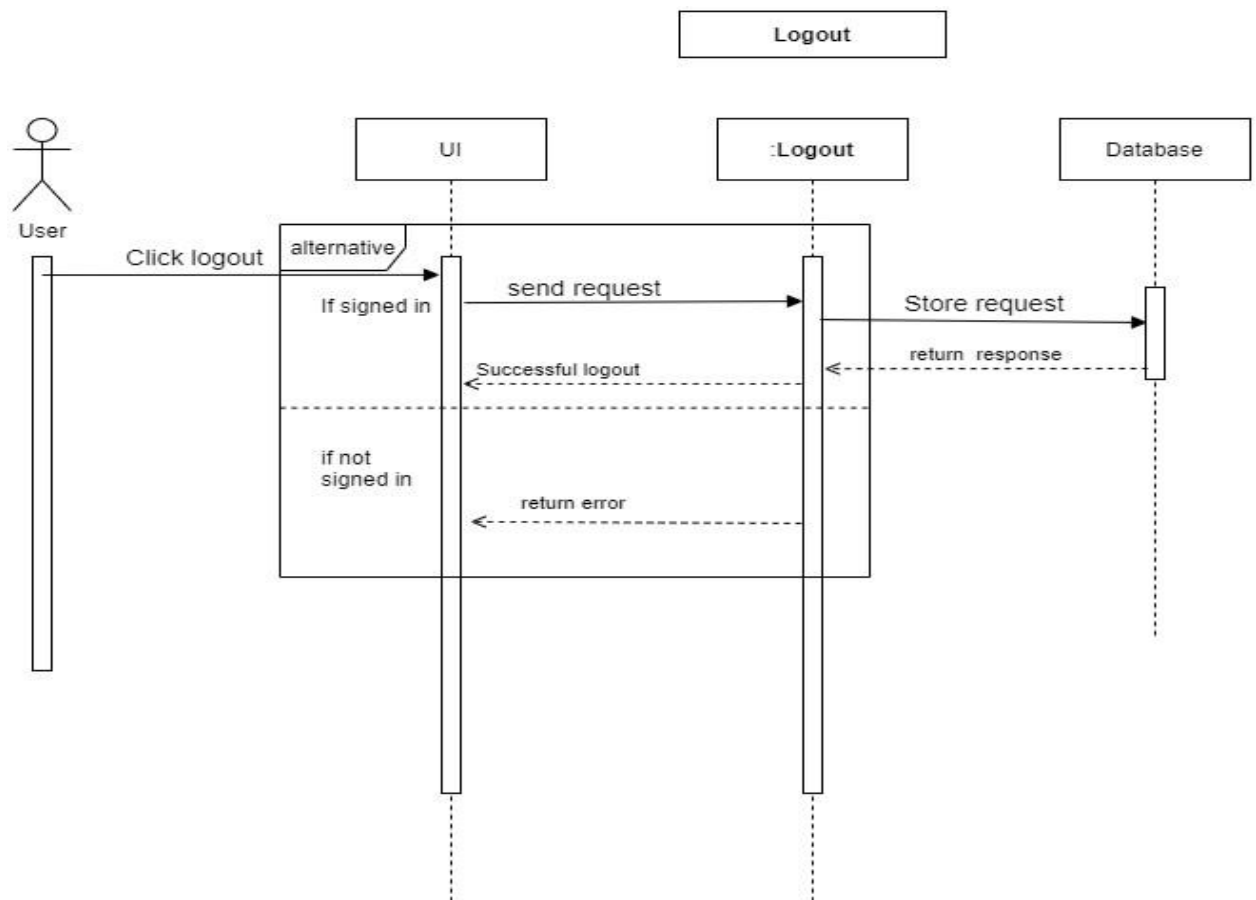


Figure: Sequence Diagram for Logout

3.6. Entity Relationship Diagram

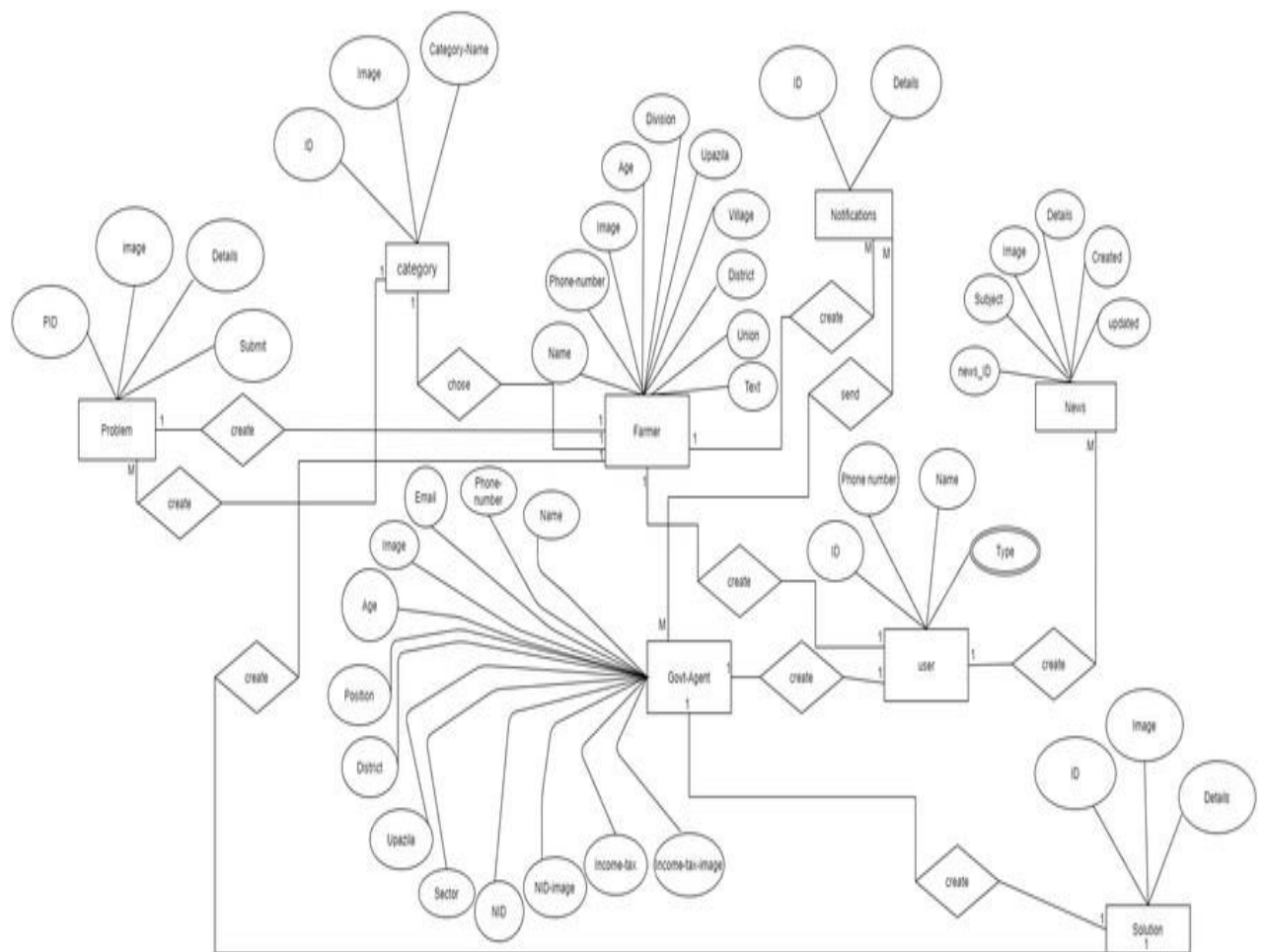


Figure: ER Diagram

CHAPTER 4: System Testing

4.1. Introduction

This website is built for public purpose. Several types of users can use this system with many facilities. For maintaining standard quality, various kind of testing process is required. Such as-

- Functional Testing
- Unit Testing
- Integration Testing
- System Testing
- Acceptance Testing

4.2. Feature to be Tested

SL no	Title	Description	Priority
I	Sign up	If user wants to manage site, then user has to register first	High
II	Login	If user is registered then he/she can sign in to access the features	High
III	Problem submission	Farmer can submit problem	High
IV	Provide solution	Government can suggest a solution	High
V	Provide news	Government post new news for more progressive cultivation	Medium
VI	Report	Government can access this to improvise the agriculture	Low
VII	Logout	The session must be destroyed after logout	High

4.3. Test Case

4.3.1. Sign up

TC-01	Sign up					
Test SL No.	Description	Input	Output	Expected output	Status	comment
1	Using new	Phone(01758*****)	Success	Success	Pass	
2	phone number Using used phone number	Password(1233) Phone(01859*****) Password(123)	Response Error Response	Response Error Response	Pass	

4.3.2. Login

TC-01	Login					
Test SL No.	Description	Input	Output	Expected output	Status	comment
1	Using valid	Phone(01758*****)	Success	Success	Pass	
2	phone number Using invalid phone number	Password(1233) Phone(01859*****) Password(123)	Response Error Response	Response Error Response	Pass	

4.3.3. Problem submission

TC-01	Problem submission					
Test SL No.	Description	Input	Output	Expected output	Status	comment
1	Filling all field	Title(xyz) Description(xyz) Image(File)	Success Response	Success Response	Pass	
2	Missing necessary field	Title(xyz) Description(NULL) Image(NULL)	Error Response	Error Response	Pass	

4.3.4. Problem Solution

TC-01	Problem Solution					
Test SL No.	Description	Input	Output	Expected output	Status	comment
1	Filling all field	Title(xyz) Description(xyz) Image(File)	Success Response	Success Response	Pass	
2	Missing necessary field	Title(xyz) Description(NULL) Image(NULL)	Error Response	Error Response	Pass	

4.3.5. Provide news

TC-01	Provide news					
Test SL No.	Description	Input	Output	Expected output	Status	comment
1	Filling all field	Title(xyz) Description(xyz) Image(NULL)	Success Response	Success Response	Pass	
2	Missing necessary field	Title(xyz) Description(NULL) Image(NULL)	Error Response	Error Response	Pass	

4.3.6. Report

TC-01	Report					
Test SL No.	Description	Input	Output	Expected output	Status	comment
1	Using valid parameter	Phone(01758*****) Area(dhaka) etc.	Success Response	Success Response	Pass	
2	Using invalid Response	NULL	Error Response	Error Response	Pass	

4.3.7. Logout

TC-01	Logout					
Test SL No.	Description	Input	Output	Expected output	Status	comment
1	Must be Logged in state and visit logged out URL	NULL	Success Response	Success Response	Pass	
2	Not logged in state and visit on logged out url	NULL	Error Response	Error Response	Pass	

4.4. Testing Environment (hardware/software requirements)

Testing environment means to prepare the environment with hardware and software so that test engineers can be able to execute test cases as required. Besides hardware and software usage, network configuration might be needed to execute test plans.

1. Browser: -Google Chrome, Firefox, Chromium.
2. OS: Windows 10 pro.
3. AMD Ryzen 7 3700x, Ram# 32GB, GPU- Radeon RX 570 ARMOR 8G OC DDR5, SSD-500GB

Chapter 5: Application UI & User Manual

5.1. Starting application



5.2. Authentication

12:27

কৃষি সহায়তায় আপনাকে স্বাগতম

সম্পূর্ণ নাম

ভোটার আইডি কার্ড নাম্বার

★ মোবাইল নাম্বার

★ পাসওয়ার্ড

পাসওয়ার্ড অবশ্যই ছয় সংখ্যার হতে হবে

রেজিস্ট্রেশন

12:26

কৃষি সহায়তায় আপনাকে স্বাগতম

মোবাইল নাম্বার

পাসওয়ার্ড

লগ-ইন

আপনি যদি রেজিস্ট্রেশন না করে থাকেন? রেজিস্ট্রেশন করুন

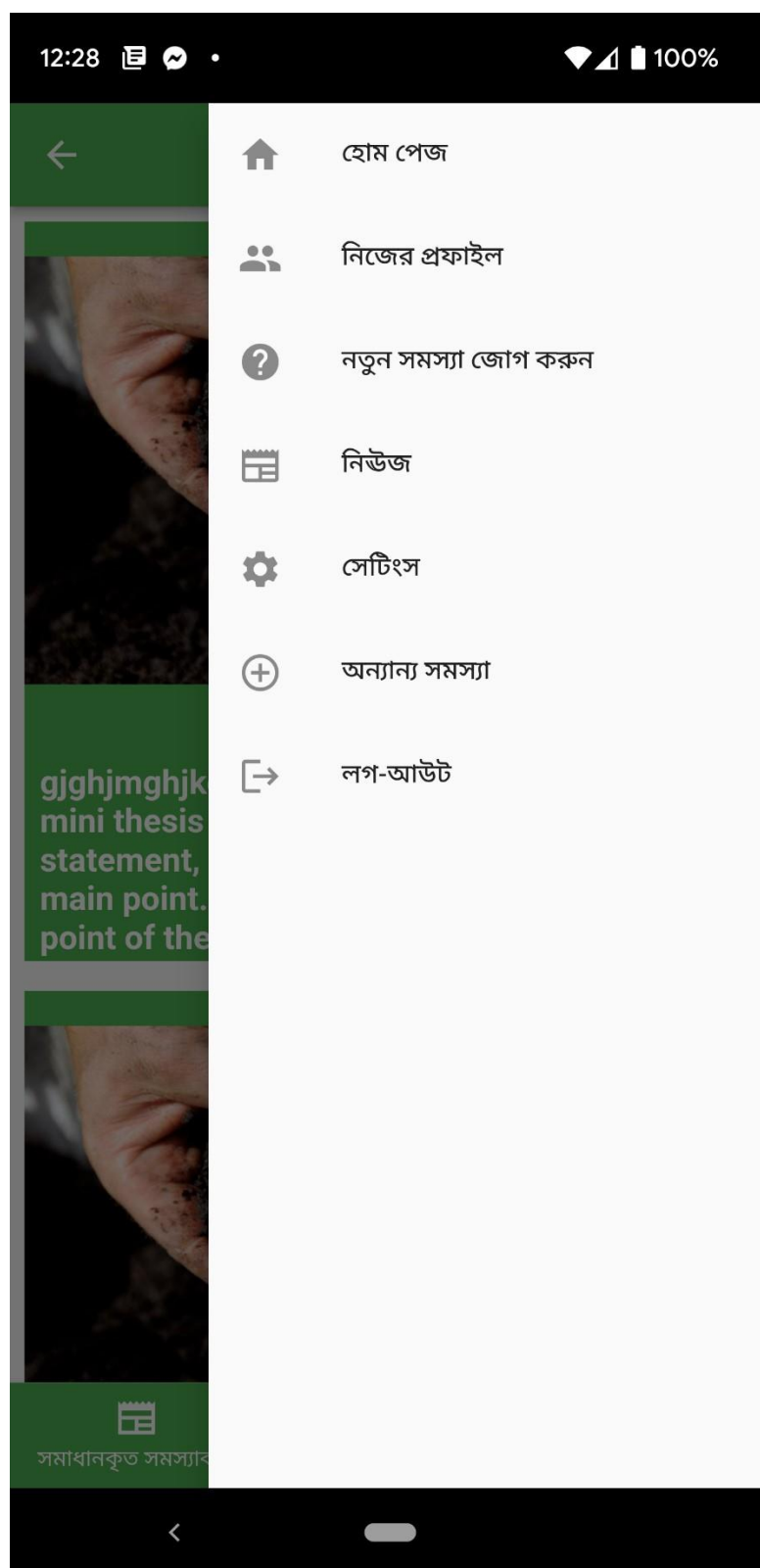
5.3. Landing page



5.4. Problem details with solution



5.5. Slider options



Chapter 6: Conclusion

6.1. Limitations

The main limitation of this application is optimization. If day after day the database size may become larger and this could be an issue with optimization and also some security issue may endanger this application.

6.2. Obstacles

- I. Learning new technology and new environment is a big issue
- II. Single handed work was not enough to do this project
- III. It's very difficult to complete a project like this huge is a great issue
- IV. To collect requirements is very tough one that I did

6.3. Achievement

- I. Successfully built a project.
- II. Learnt a new technology.
- III. Deploy a project is a new experience.
- IV. Learned the real-life experience by uploading project on the live server.
- V. Know about document and the development process.

6.4. Future Scope

Though the system was developed as much as needed and its work properly. But I have to add something features to make the systems fulfillment. The future work will include some major changes, such as-

- I. Online meeting
- II. Community discussion
- III. Live chat

6.5. Reference

To work with this project, I have studied over some website and mobile application to learn their facilities and limitations. My target is to provide something newer which can help everyday life. But I want to give a great credit to these application-

6.5.1. Crop Production

6.5.2. DigiCow

6.5.3. AgriApp: Smart Farming App