

Krishi Seba
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This Report Presented in Partial Fulfillment of the Requirements for the Degree of
Bachelor of Science in Computer Science and Engineering.

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DHAKA, BANGLADESH
OCTOBER 2018

APPROVAL

This Project titled “**Krishhi Seba**”, submitted by Md. Riyad Hossein, Md.Ashif Foysal and, Md. Maruf Hossen to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering (BSc) and approved as to its style and contents. The presentation has been held on 28-10-2018

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We hereby declare that, this project has been done by us under the supervision of **Most Hasna Hena, Senior Lecturer, Department of CSE** Daffodil International University. We 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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ACKNOWLEDGEMENT

First, we express our heartiest thanks and gratefulness to almighty God for His divine blessing makes us possible to complete the final year project/internship successfully. We really grateful and wish our profound our indebtedness to **Most Hasna Hena, Senior Lecturer**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of “*Web & Mobile Apps Development*” to carry out this project. Her endless patience, scholarly guidance, continual encouragement, constant and energetic supervision, constructive criticism, valuable advice, reading many inferior drafts and correcting them at all stage have made it possible to complete this project.

We would like to express our heartiest gratitude to Professor and Head, Department of CSE, for his kind help to finish our project and also to other faculty member and the staff of CSE department of Daffodil International University. We would also like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

Krishi Seba is a stage for the root level clients, essentially for the farmers to offer or purchase their coveted items inside satisfactory price. Krishi Seba would give the farmers to enlist vehicles, machineries and workers for rural purposes also. Utilizing this platform, farmers will have the capacity to specifically speak with the affiliates that will give them the potential outcomes of getting additional costs of their items. It will lessen the middle of the road layers between the farmers and the affiliates. Accordingly, agriculturists will have the capacity to get the genuine cost of their merchandise. Krishi Seba would give them the platform of employing the workers for their agricultural related works. Utilizing the framework, farmers will have the capacity to effortlessly inspire vehicles to move their horticultural items to a far separation.

The system would send the notices to the clients that would push them to effortlessly get their coveted items. There will be an element named "Ajker Bazar Dhor". It will contain the everyday value rundown of the enrolled results of our system. That will assist the agriculturists with knowing the genuine offering cost of their delivered merchandise. Clients will have the capacity to scan for the arrangement of any horticultural infections and furthermore for the arrangements. The portable application will be in Bengali and will have voice guidance on the best way to utilize the application in each page

TABLE OF CONTENTS

CONTENTS	PAGE
Board of Examiners	I
Declaration	II
Acknowledgements	III
Abstract	IV
Table of Contents	V
List of Figures.....	IX
List of Tables	XI

CHAPTER

CHAPTER 1: INTRODUCTION 11-12

1.1 Introduction	11
1.2 Motivation	11
1.3 Objectives	11
1.4 Expected Outcome	12
1.5 Report Layout	12

13-15

CHAPTER 2: BACKGROUND

2.1 Introduction	13
2.2 Related Work	13
2.3 Comparative Studies	13
2.4 Scope of the Problem	14
2.5 Challenges	15

16-19

CHAPTER 3: REQUIREMENT SPECIFICATION

3.1 Requirement Collection and Analysis	16
3.1.1 Software Requirement	16
3.1.2 Framework, Language, Tools	17
3.1.3 Hardware Requirement	17
3.1.4 Tools	17
3.1.5 Database	17
3.2 Business Process Modeling	18
3.3 Use Case Modeling	19

CHAPTER 4: DESIGN SPECIFICATION	20-39
4.1 Front-end Design	20
4.2 Back-end Design	35
4.3 Interaction Design and UX	36
4.4 Implementation Requirements	39
CHAPTER 5: IMPLEMENTATION AND TESTING	40-42
5.1 Introduction	40
5.2 Implementation of Database	40
5.3 Implementation of Front-end Design	40
5.4 Implementation of Interactions	41
5.5 Test Results and Reports	41
5.5.1 Login Report	41
5.5.2 Registration and verification Report	42
CHAPTER 6: CONCLUSION AND FUTURE SCOPE	43
6.1 Discussion and Conclusion	43
6.2 Scope for Further Developments	43
REFERENCES	44

LIST OF FIGURES

FIGURES	PAGE NO
Figure 3.1: Business Process Model	18
Figure 3.2: Use Case Diagram of general user's activity	19
Figure 4.1.1: Home Page	21
Figure 4.1.2: A part of front-end design of website	22
Figure 4.1.3: Login page for admin	23
Figure 4.1.4: Admin Panel Dashboard Design.	24
Figure 4.1.5: Login page of mobile app	25
Figure 4.1.6: Registration page of mobile app	26
Figure 4.1.7: Page of Verification Mobile Number	27
Figure 4.1.8: Dashboard of mobile app	28
Figure 4.1.9: Product category page of mobile app	29
Figure 4.1.10: Product details page of mobile app	30
Figure 4.1.11: Message list page of mobile app	31
Figure 4.1.12: Messaging page of mobile app	32
Figure 4.1.13: Daily Market price list page of mobile app	33
Figure 4.1.14: Ad posting page of mobile app	34
Figure 4.1.15: Profile Update page of mobile app	35
Figure 4.2: Database Design of Krisi Seba	36
Figure 4.3.1: User Feedback	37
Figure 4.3.2: Other options of mobile app	38
Figure 4.4: Requirements of Implementation	39

LIST OF TABLES

TABLES	PAGE NO
Table 5.5.1: Login Report	44
Table 5.5.2: Registration and verification Report	45

CHAPTER 1

Introduction

1.1 Introduction

Krishi Seba is a web-based application that includes mobile application in cross platform. Krishi Seba is basically a platform for the root level farmers that will help them to get the appropriate price of their Agri-products. Using this platform, users will be able to buy or sell Agri-products as well as will be able to rent agriculture related machineries. It will help the root level farmers to directly contact with the resellers of a far distance that will reduce the intermediate layers called “Mahazon” between farmers and resellers. They will be able to hire various kinds of vehicles, agriculture related machines using this system. The app is totally user friendly & developed considering to make easily useable for the farmers.

1.2 Motivation

Agriculture is the main driving force of our economy. Our famers are trying heart and soul to have us a meal. But it's a matter of regret that they are being deprived of getting their appropriate value. It's happening because they don't get the idea of appropriate price of their cultivated goods, even they fail to directly communicate with the resellers in the town. That's why they have to sell their products to the local mahazons within a lowest price. But the main profit is going to the pocket of those mahazons. We have thought to reduce the gap between the root level farmers & the resellers and have finally come out with the idea of krishi seba .

1.3 Objectives

The objectives of this project are

- To make a web platform for reducing the gap between farmers and the resellers.
- To reduce the intermediate layers between farmers and the resellers.
- To provide our farmers the info of their appropriate price of their produced goods.
- To help our famers to have the proper info of their asking within an efficient way.
- To provide a platform for hiring agriculture related machines as well as vehicles.

- To digitalize our agriculture sector by connecting our farmers with technology.

1.4 Expected Outcome

The expected outcomes of this project are

- Buyers will be able to post their requirements that will be notified to the sellers those who have the best matches of these requirements.
- Sellers will be able to post their requirements that will be notified to the buyers those who have the best matches of these requirements.
- Users will be able to hire vehicles, machineries related to cultivations.
- User will be able to hire laborers for their cultivation related task.
- Famers will be able to directly communicate with the resellers at a far distance ignoring the intermediate layers.
- Famers will be able to get the solutions of their asking within an efficient way.
- Famers will be able to be concerned of the actual price list of their produced products.

1.5 Layout of the Report

Chapter one has demonstrated an introduction to the project with its motivation, objectives, and goals.

- Chapter two will have "Overview Background" shows project management phases and project management challenges.
- Chapter three will have Software Requirement.
- Chapter four will have System Analysis.
- Chapter five will have system design and specification.
- Chapter six will have Implementation, and Testing.
- Chapter seven will have conclusion.

CHAPTER 2

Background Overview

2.1 Introduction

We have thought to reduce the gap between the root level farmers & the resellers and have finally come out with the idea of krishi seba. Krishi seba focuses on providing an online platform that will enable our root level farmers to directly communicate with the resellers in the towns. It will provide the functionality of agriculture related vehicles, machines as well as laborers. It will make them aware of the actual price of the products, will provide them the solutions of their asking and so on.

2.2 Related Works

We are working with both agricultural product selling, hiring laborer & rental service of agricultural related machineries and vehicles.

Bikroy.com provides various kinds of product selling and buying services. Using this platform one can buy or sell various types of products.

Uber, Pathao is providing ride sharing facilities. These are somehow similar to our project since we are also creating a platform for hiring laborer, agricultural machineries and so on.

Krishoker Janala an agriculture related app funded by agricultural ministry of Bangladesh is providing the information of various types of agricultural crop's diseases & their cures.

We think near future this related works will be done by us or hopefully great companies.

2.3 Comparative Studies

Bikroy.com sells various types of products. So, it's not easy for the farmers to get their products or post their product in this platform to sell. This contains a variety of categories that is beyond the usage and understanding of the farmers. In fact, it's not users friendly for the farmers. Farmers need a totally user-friendly platform that can be used by them easily & that will provide them the easy excess to buy & sell their products. Uber, pathao are providing ride sharing. But basically, these are effective in the towns and not user friendly for the farmers or root level users. These are providing only ride sharing like car, motor bike and so on. But they are not providing the facilities of hiring agricultural related vehicles and machineries like pickup, tractor, harvesting machines

and so on. Even we can't imagine of hiring laborer using these existing platforms. So we need such a platform that will provide these facilities.

Krishoker janala is providing the information of various types of agricultural diseases and their cures. But it would be more effective if it would be able to provide the farmers the daily market price of almost all the agricultural products that would help the farmers to get their desired prices.

2.4 Scope of the problem

In firming our firmer faced so many problems to their daily deeds some are trying to sell something other ones are to buy, or some people are searching some Tractors or van to carry their goods. To do this in both cases farmers and drivers need to ask people to people to acquire their needs. It's problematic and time consuming. So, scope is huge in the sector of carrying and selling.

So, we are ready to take this challenge of creating an easy system that would be totally user friendly for the farmers and would provide them an all in one platform. They will be able to easily post their ads, buy and sell their products. This will include only the agricultural products. When one will post an ad of selling any agricultural product say potato, we will push a notification to those who are seeking to buy potato. So, farmers will not need even to search for their desired products. They will automatically get the notification.

This platform will act as a bridge between the resellers and the farmers. So, farmers will be able to sell their products to the resellers in the town within a higher price.

Like as the other ride sharing app, we are also providing sharing methodologies. But the difference is here we are going to provide the opportunity of sharing agricultural machineries and vehicles. Now, farmers need to go to upazilla to hire a harvesting machine. Hope so using our app, they will be able to easily hire a harvesting machine sitting at home, will be able to hire a laborer for cultivation and so on.

We are going to provide the daily market price list of agricultural products. Hope so it will be more effective for the farmers to get right price of their products. Since they will be able to know the actual selling price of their goods, frauds will not be able to deprive them of getting their right price.

2.5 Challenges

- Making our famers capable of using the app is the biggest challenge.
- Reaching the root level famers to get their info is a big challenge.
- Making the app more user friendly is a big challenge.
- Collection of user feedback and taking required actions can be difficult as we may find different types of users.

CHAPTER 3

Requirement Specification

3.1 Introduction

Requirement Specification is a report that depicts prerequisites for a product item, program or set of projects. Necessities in the product prerequisites determination are communicated in ordinary dialect and are not worried about specialized execution. That is the thing that the outline records are for. In programming improvement, the product prerequisites particular speaks to the consequences of the necessities examination and portrays the prerequisites of the product a work in progress. In spite of the fact that it is customarily made as a record, it can likewise be made in various structures, for instance – an exceptionally basic one – in talked shape [1].

3.1.1 Software Requirement

The choice of software requirement is as per the following. We managed the web-based platform as work gains. We will develop a web-based platform and an app in cross platform. We would need HTML5, CSS3 JavaScript, jQuery and Ajax as the front end. MySQL, PHP, OOP, ajax technology as back-end of our project. Here we also need XAMPP as local server. As the code editor we would need sublime text editor.

3.1.2 Framework, Language, and Tools

We used HTML5, CSS3, bootstrap, JavaScript and Ajax as the front end, MySQL server, PHP, jQuery, Ajax as back-end of our project.

We have developed the app in cross platform using Ionic, jQuery, Ajax, PHP, MySQL.

3.1.3 Hardware Requirement

- Processor – Dual Core
- Hard Disk – 50 GB
- Memory – 1GB RAM

3.1.4 Tools

A product improvement instrument is a program or applications that is utilized to configuration, troubleshoot, keep up projects and applications. The term applies to straightforward projects, which can be associated circumstantially to play out an assignment, much as one may utilize different control devices settle a physical question.

To improve this website, we used the following tools:

- Php storm.
- Brackets
- MySQL database.
- Xampp server.
- Browser.

3.1.5 Database

A database is an orchestrated gathering of information. The information are ordinarily arranged to outline basic characters of reality in a way that keeps up means requesting this data. The subsequent database is attempting to enhance this site is MySQL. MySQL is a social database administration framework. Choosing a database is indispensable and more critical than some other things for building up a task. We like MySQL in light of the fact that it is the most appropriate database for us for a few reasons. Those reasons will be given underneath. MySQL database is smart about sparing any information that we need. It will let you rapidly store and recover data and numerous site guests can rehearse it at one time.

- MySQL is a database server.
- It is ideal for both small and large application.
- MySQL Supports standard SQL.
- It is free to download and use.
- It compiles on some platforms.

3.2 Business Process Modeling

Business process modeling is system's engineering is the activity of representing processes of an enterprise, so that the current process may be analyzed, improved, and automated.

BPM is typically performed by business analysts, who provide expertise in the modeling discipline by subject matter experts, who have specialized knowledge of the processes being modeled or more commonly by a team comprising both. [4]

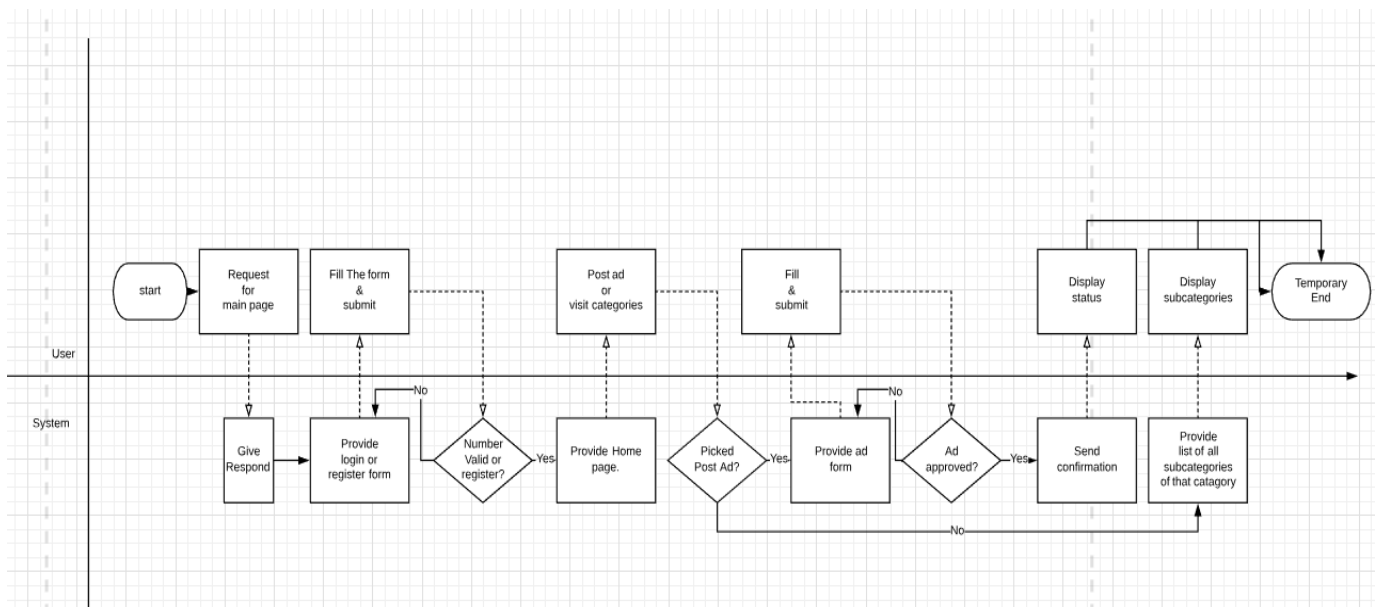


Figure 3.1: Business Process Modeling Diagram

3.3 Use Case Modeling and Description

In software and systems engineering, a use case is a list of actions or event steps that defines the interactions between a role and a system to achieve a goal. The actor can be a human or other external system. It is used because it shows the interaction logic between the objects in the system in the time order that the interactions take place

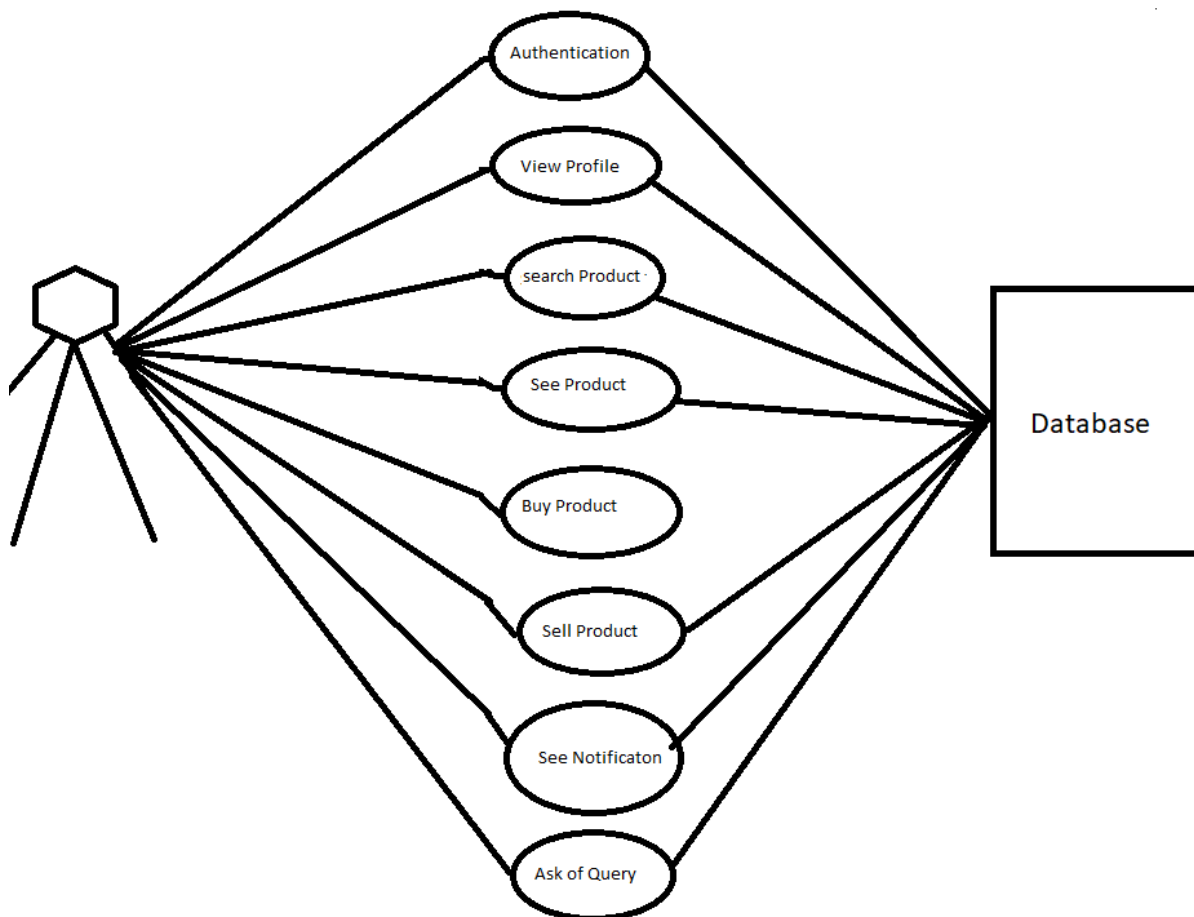


Figure 3.2: Use Case Diagram of general user's activity

Chapter 4

Design Specification

4.1 Front-end Design

An outline determination is a point by point record giving data about a planned item or process. For instance, the outline detail must incorporate every vital illustration, measurements, ecological variables, ergonomic components, stylish elements, support that will be required, and so forth. It might likewise give particular precedents of how the outline ought to be executed, helping other people work legitimately (a rule for what the individual ought to do) [2].

The front-end design would include HTML5, CSS3, JavaScript, jQuery & ajax technology. We will have two front end design. One for our website and another for our app. We are mainly focusing on the app. The web view will be available in two languages: Bangla and English. Here will have two front end users: service provider and service seeker.

Our app will be available only in Bangla and it will be more user friendly for the farmers. It will contain voice direction of how to use & what to do in every pages of our app.

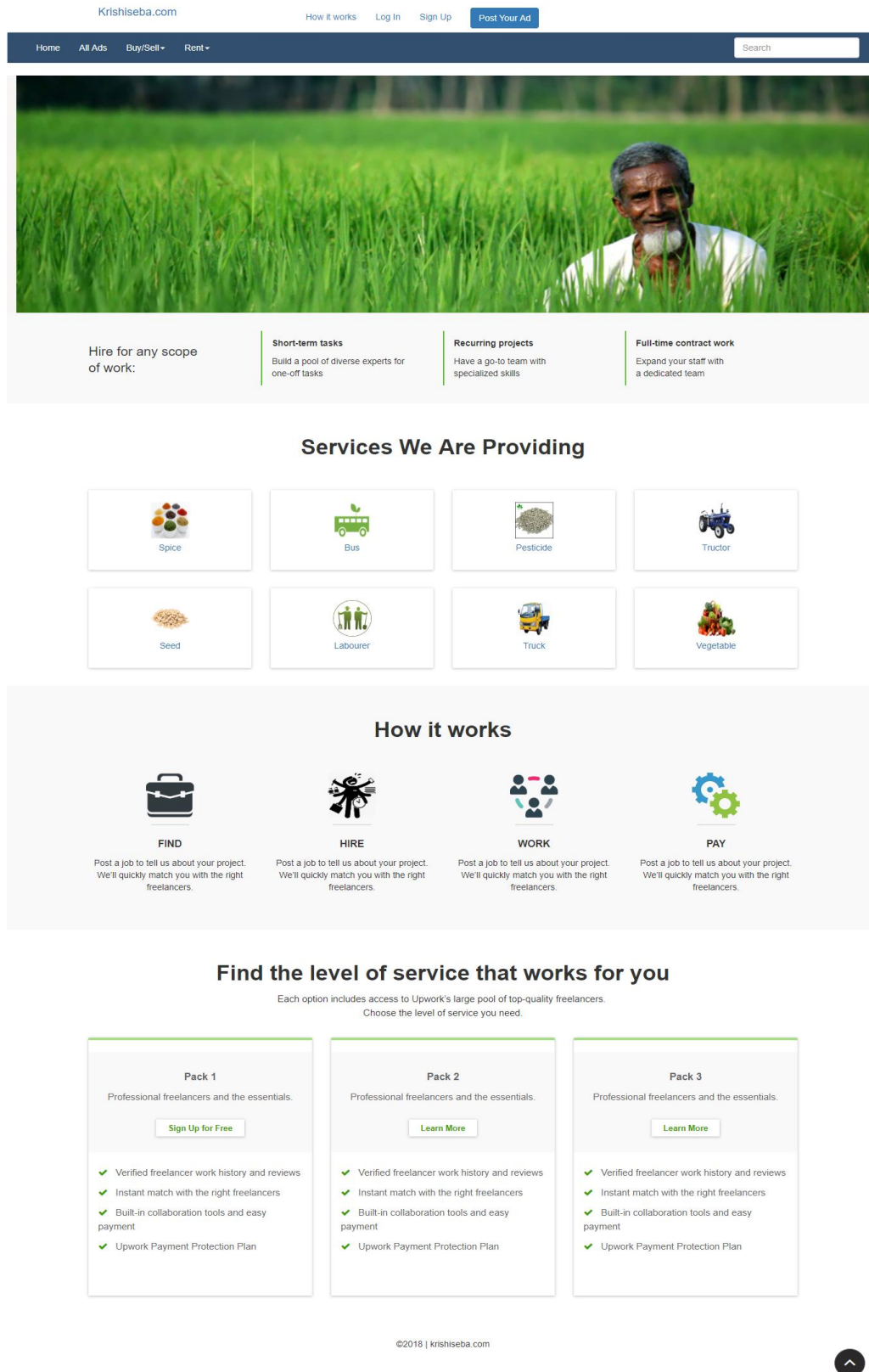
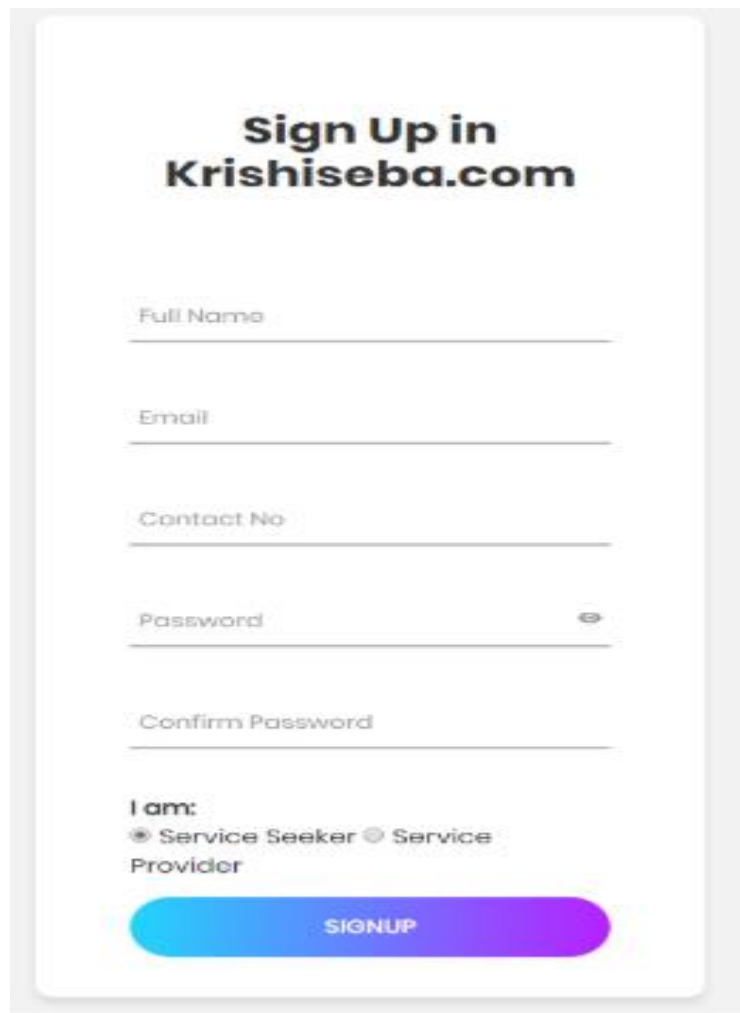


Fig: 4.1.1 Website Home page



**Sign Up in
Krishiseba.com**

Full Name

Email

Contact No

Password 

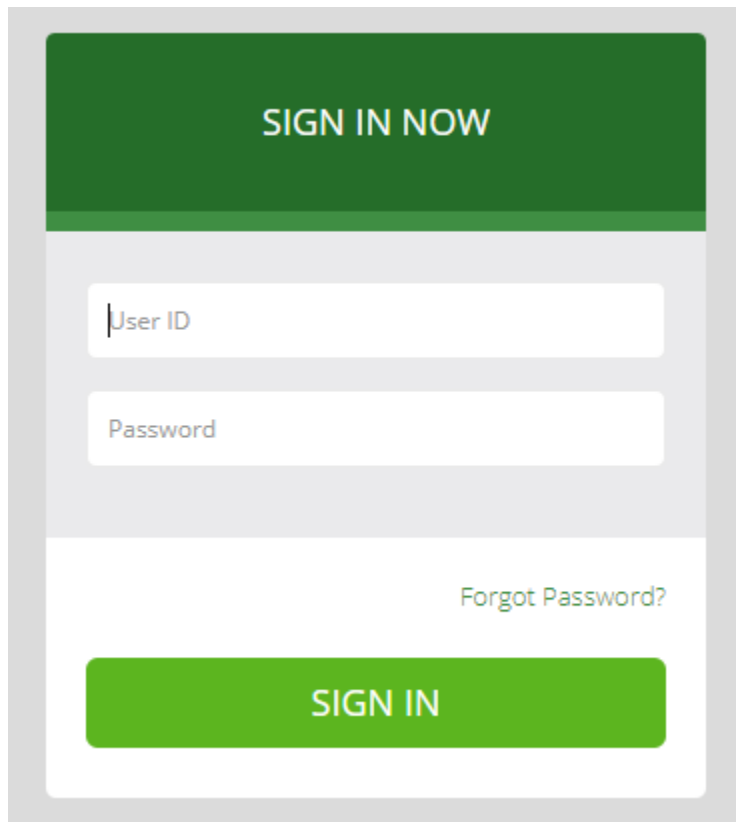
Confirm Password

I am:
☒ Service Seeker ☐ Service Provider

SIGNUP

Figure 4.1.2: A part of front-end design of website

Admin Login: Admin can login the system using his user Id and password



The image shows a login form for an admin user. It features a dark green header with the text "SIGN IN NOW" in white. Below the header, there are two input fields: "User ID" and "Password". To the right of the "Password" field, there is a link that says "Forgot Password?". At the bottom of the form, there is a green button with the text "SIGN IN" in white.

Figure 4.1.3: Login page for admin

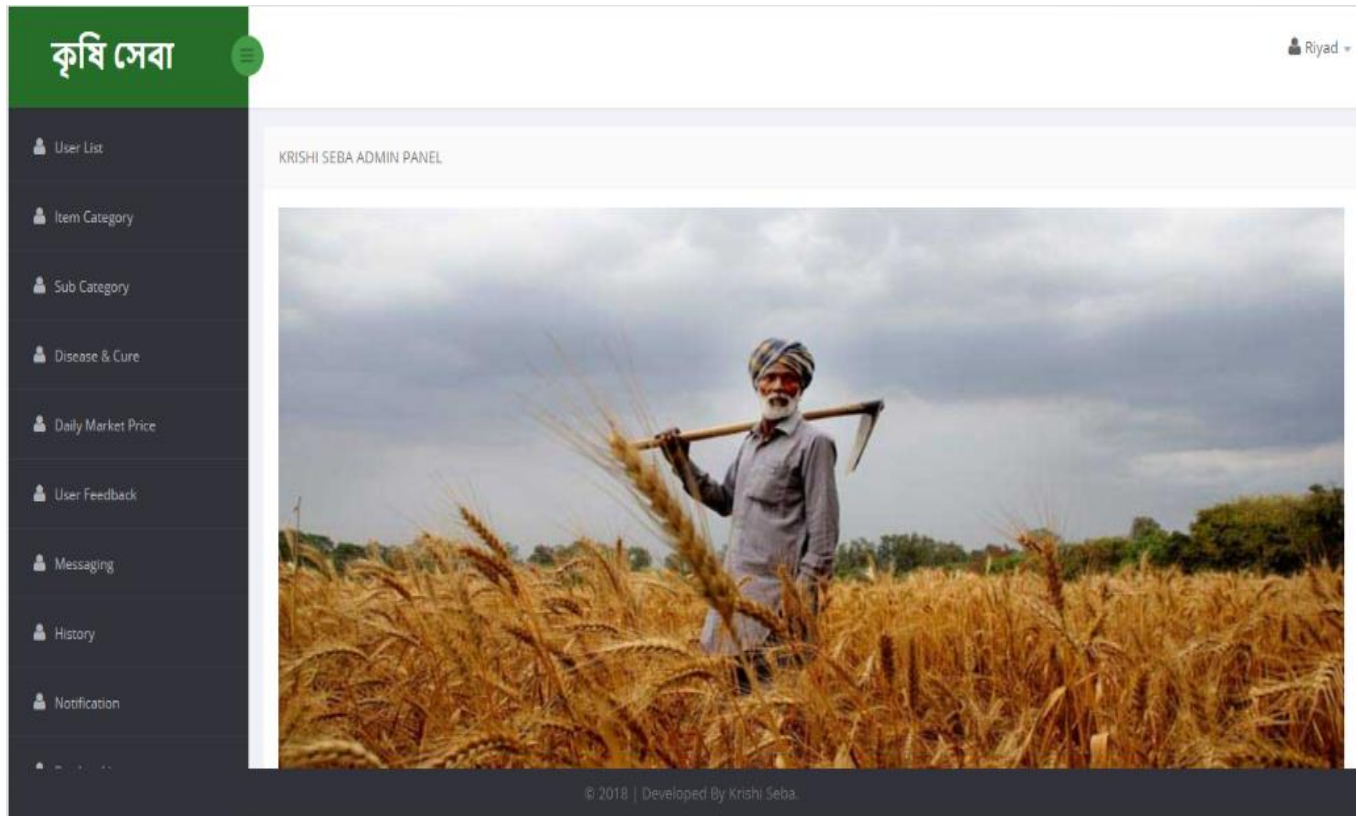


Figure 4.1.4: Admin Panel Dashboard Design.

Admin panel: We would control all the functionality of our system using the admin panel for both website and app. Any categories and sub categories of products can be easily dynamically added using admin panel.

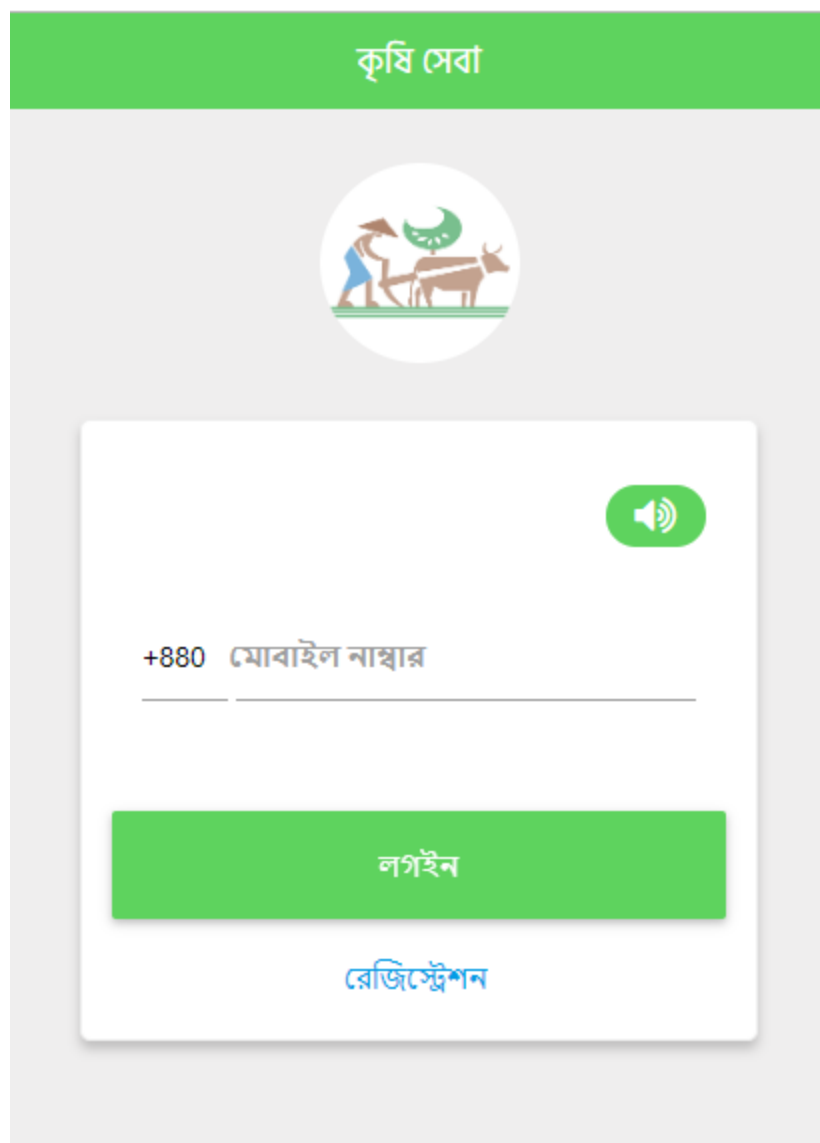


Figure 4.1.5: Login page of mobile app.

Login: Farmers will be able to login in our system using their registered mobile number. Here we have used voice instruction for how to login. They will be able also to turn off the voice instruction

কৃষি সেবা

নাম

+880 মোবাইল নাম্বার

রেজিস্ট্রেশন

Figure 4.1.6: Registration page of mobile app

Registration: User need to provide a valid mobile number and name (not mandatory) to login to the system. Here is also voice instruction used. After completing the registration, user will get a verification code in his provided mobile no. He needs to enter the valid verification code to login to the system.

কৃষি সেবা



ভেরিফিকেশন কোড

পুনরায় কোড পাঠান

ভেরিফাই করুন

Figure 4.1.7: Page of Verification Mobile Number



Figure 4.1.8: Dashboard of mobile app

Dashboard: Here user will be able to find out their desired products by searching, would be able to post an ad, would be able to rent agricultural machineries, would be able to see the daily market price list, would be able to see the message list and send message to the other users, would be able to see the notifications, would be able to update profile, change settings, would be

able to see any kind of agricultural harvest's disease name, its reason of happening and also the cure.



Figure 4.1.9: Product category page of mobile app

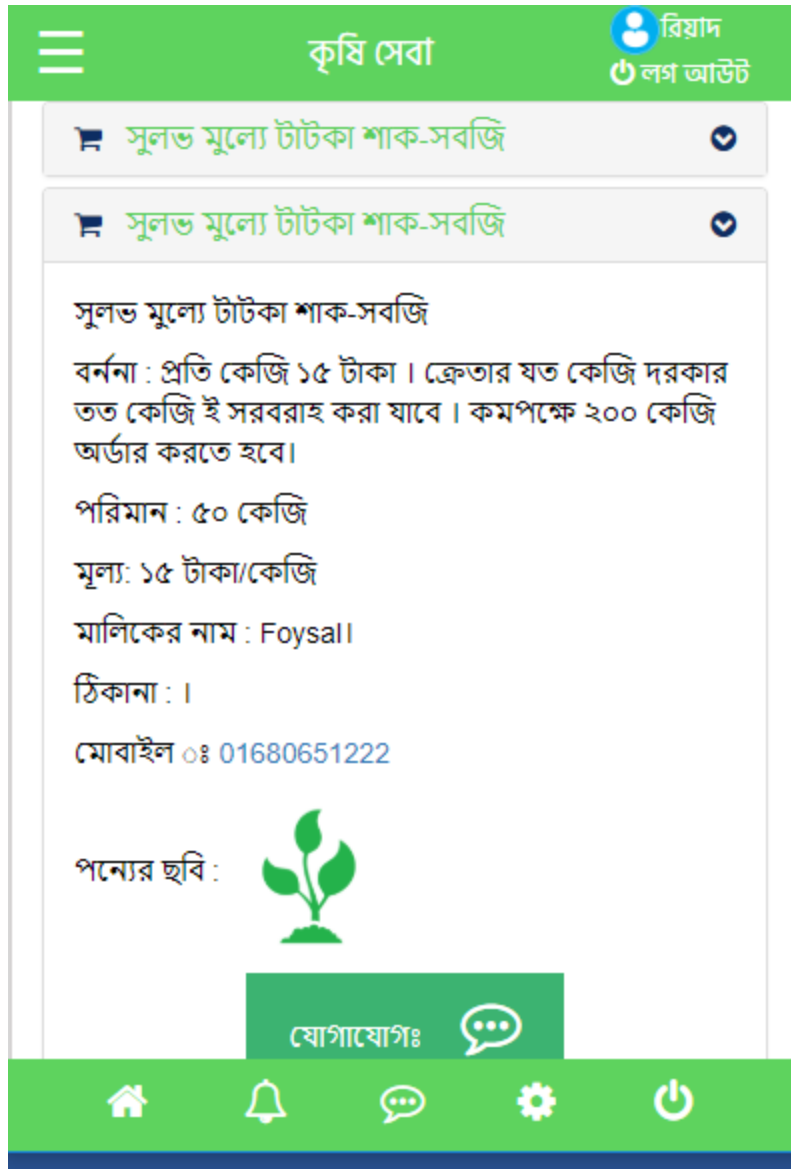


Figure 4.1.10: Product details page of mobile app

Product Details: It will contain the details of the products posted by the users as add. Other users will be able to directly chat with the ad provider or call him directly using our system.

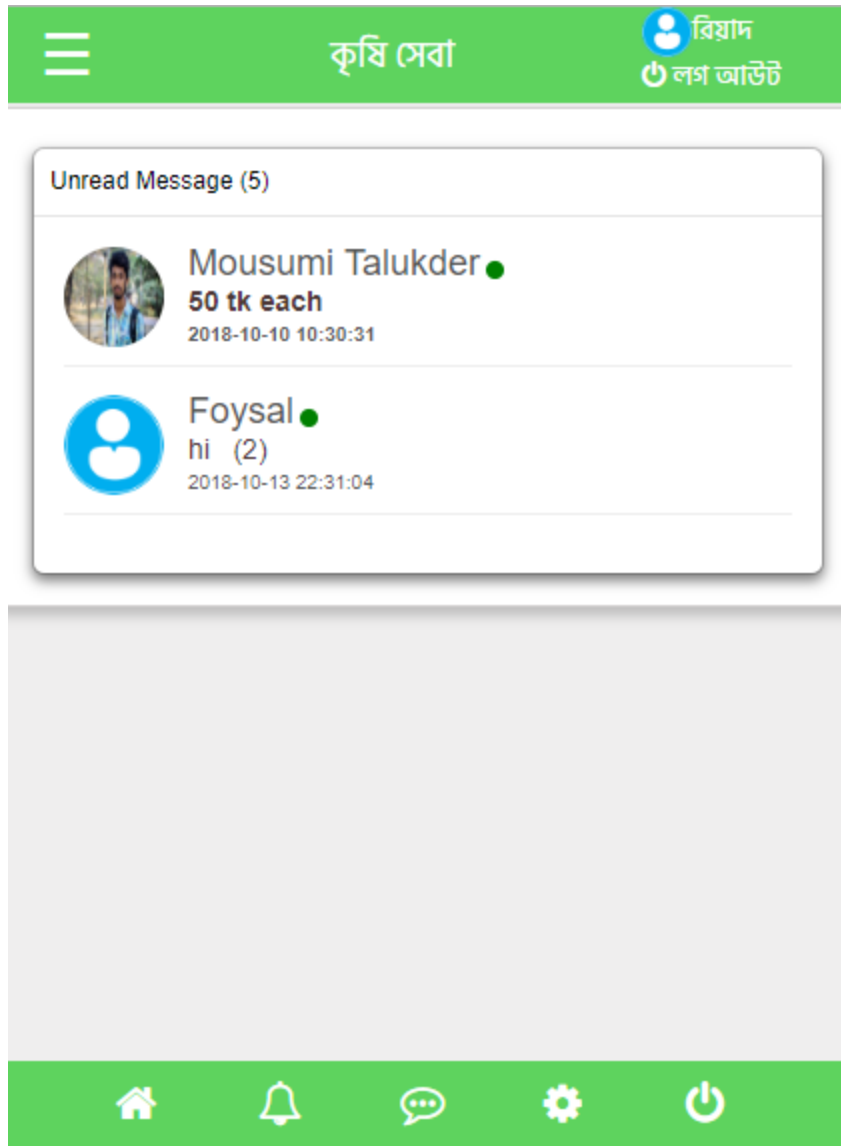


Figure 4.1.11: Message list page of mobile app

Message list: It will show all the message list of the login user. It will show the counted number of new messages, also will show whether a user is active or not, and whether a message is seen or not.

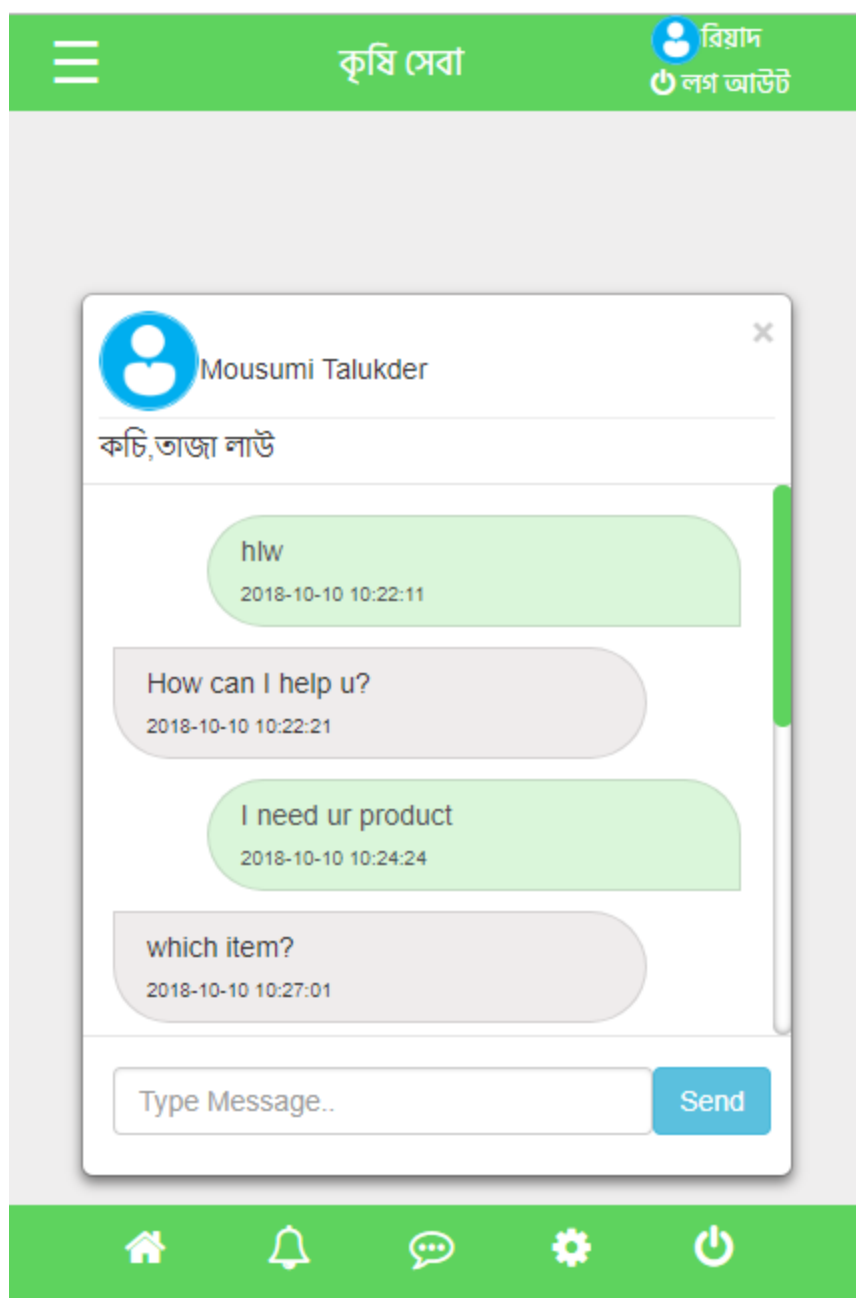


Figure 4.1.12: Messaging page of mobile app

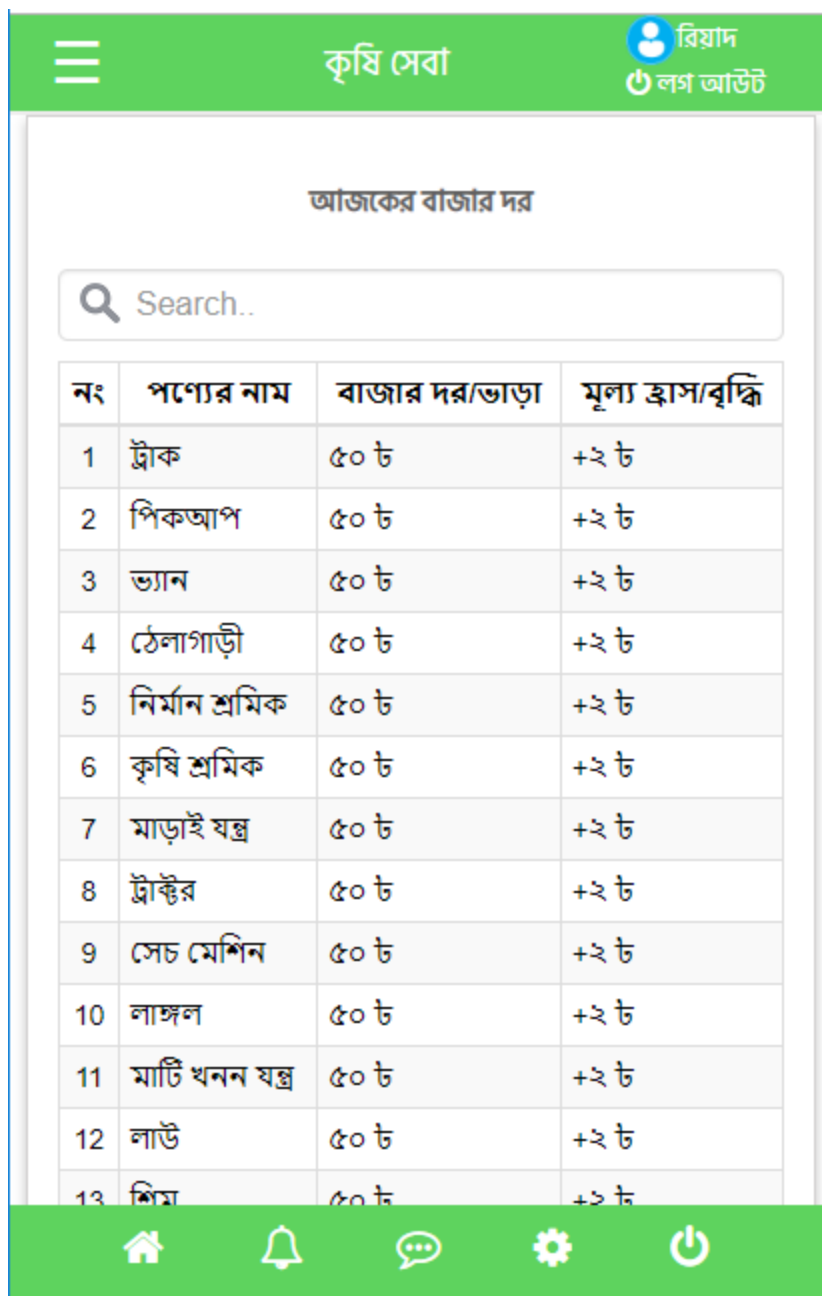


Figure 4.1.13: Daily Market price list page of mobile app

Daily Market Price List: It will show the daily market price of all the agricultural product items enlisted in our app. User will be able to search with the product name to see its daily price.

Figure 4.1.14: Ad posting page of mobile app

Post Ad: User will be able to post his ad in our page by filling this form. All these fields are not mandatory. They will get voice instruction on how to post an ad.

আপডেট প্রোফাইল

নাম:

রিয়াদ

মোবাইল:

1680651229

ইমেইল :

riyad@krishiseba

ধরন:

ব্যক্তিগত

আপনি কি? :

কৃষক

সেবা সমূহ:

--সেবা সমূহ--

উপজেলা:

দাউদকান্দি

Figure 4.1.15: Profile Update page of mobile app

4.2 Back-end Design

The back-end, or the "server-side" design is, actually how the site works, updates and changes. This refers to everything the user can't see in the browser, like databases and servers. Back-end design deals with things like security, structure and content management.

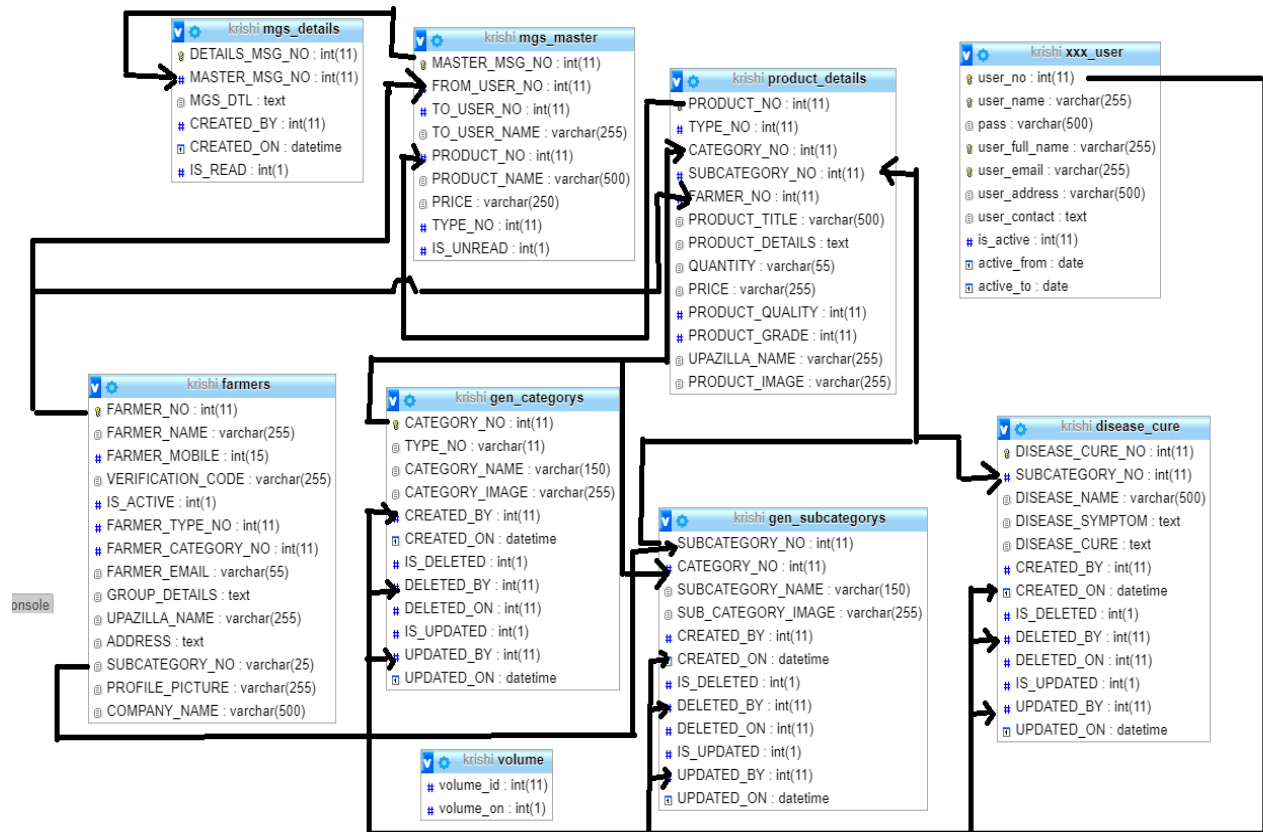


Figure 4.2: Database Design of KriSi Seba

4.3 Interaction Design and UX

Interaction Design is the blueprint of the participation among customers and things. The target of association arrangement is to make things that help the customer to achieve their goals in the best way that could be accessible.

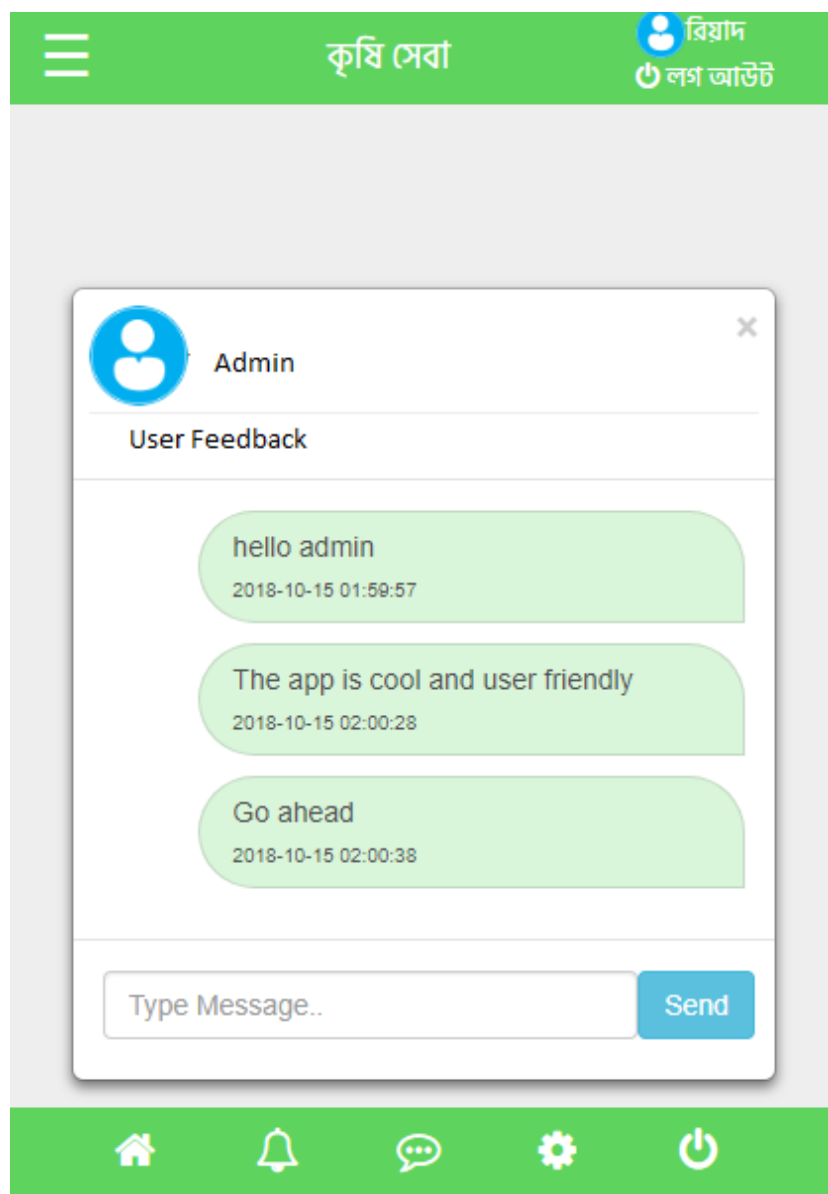


Figure 4.3.1: User Feedback

Our system enables the users to give their significant input about our platform. Admin(S) of the system can get the criticism and break down the nature of the system.

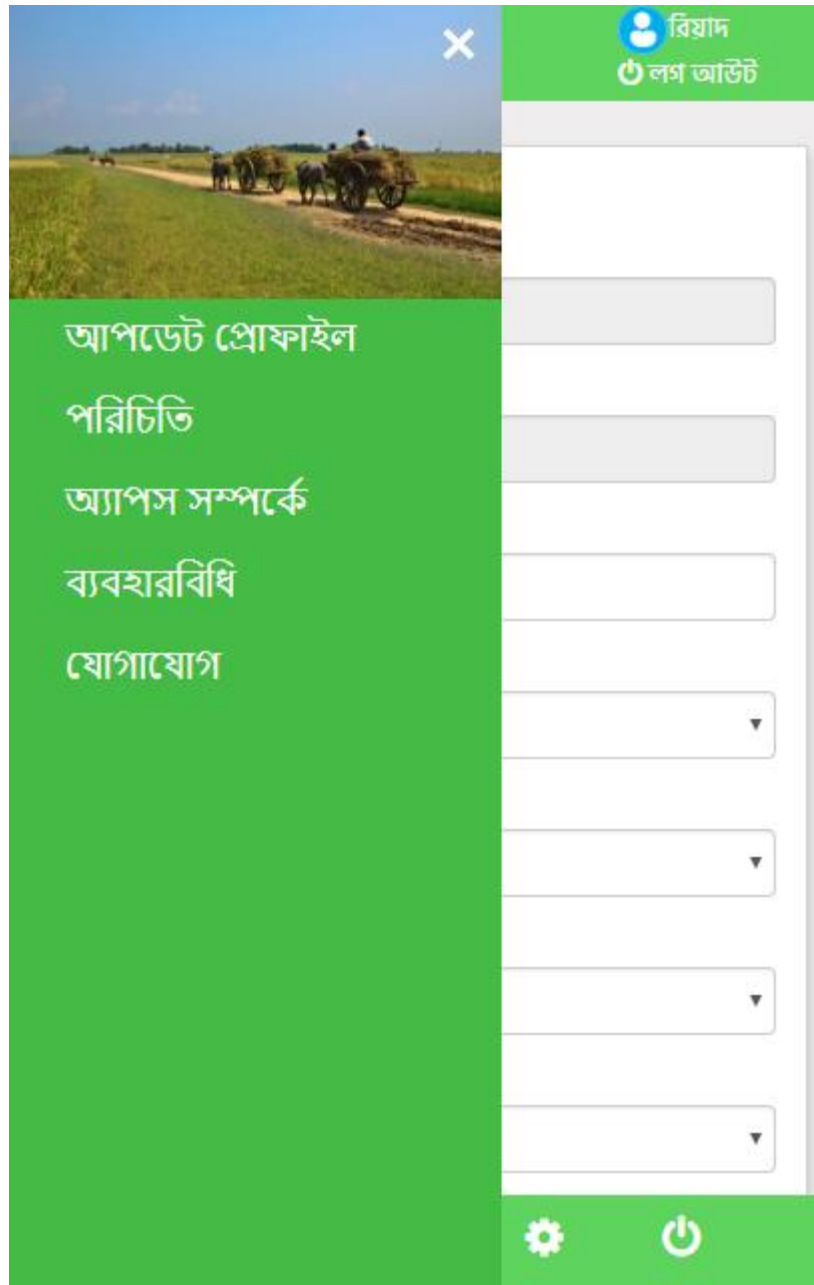


Figure 4.3.2: Other options of mobile app

UX Design implies customer experience plan which is the path toward improving customer satisfaction by keeping up the accommodation, accessibility, and joy gave in the participation between the customer and the thing.

It isn't just stressed over the wise materials yet moreover the way in which certain materials look, feel or make to pass on specific yields.

4.4 Implementation Requirements

Implementation requirement is the procedure of execution an arrangement, a strategy, or any plan, thought, demonstrate for building a framework. The activity must pursue any fundamental reasoning with the goal for something to really occur.

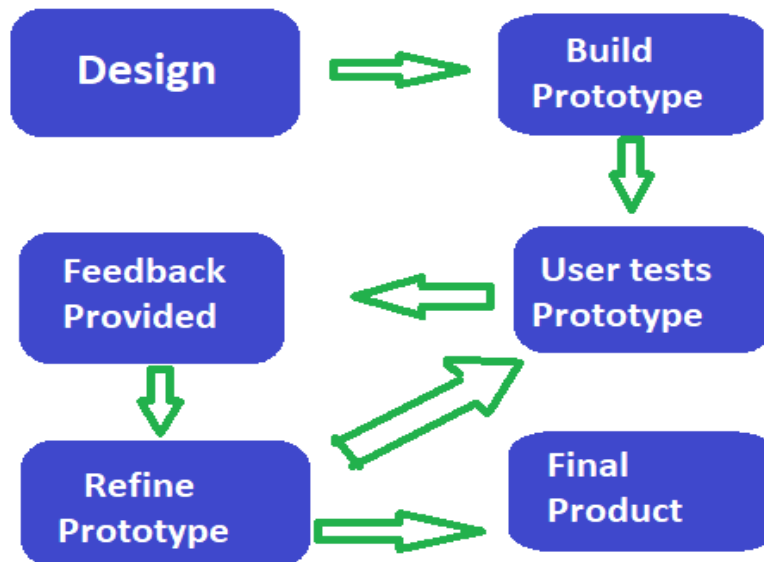


Figure 4.4: Requirements of Implementation

Our System is produced so it can expeditiously be changed in light of end-customer and customer input. We fabricate the database, UIs and working limits. After the customer surveys the model he suggests redesigns. This hover continues until the point that the customer is satisfied. To implement this app, we would have to interact with the root level users. We would like to train them how to use this system and what the benefits of using this system are.

CHAPTER 5

Implementation and Testing

5.1 Introduction

Implementation is an imperative part to deal with an application. It enhances to improvement of the key frameworks for applying the arrangement. After usage an arrangement we have to build up the procedure as indicated by the framework.

Before implementing the system, we would have to test the system using demo data. So we have to collect a lot of demo data and test the system using those.

5.2 Implementation of Database

We have used MySQL database in our system for both the website and mobile app. We have used a central database that would serve both the website and the app. It would hold all the data of our system. Before implementing the app to the real users, we would test the functionality of the database whether all the functionalities and relational tables are working properly. We would insert at least 300 products add, around 200 agricultural crop's disease and their cures. We also would register 40-50 users to test the accuracy and security of the system.

5.3 Implementation of Front-end Design

Implementation of front– end configuration is one of the fundamental procedures for starting a web application. Firstly, we would like to implement our system among some of our known persons to test whether the front-end functionalities are working properly. We would test how much load it's being able to keep. We would collect their feedback and will try to improve the design and functionalities according to their feedback. We will try our level best to make the front-end design more user friendly.

We have utilized the accompanying apparatuses for actualizing front-end plan of our framework.

- HTML (backbone of any website development process).
- CSS (demonstrates the presentation aspect of the site and allows a web application to have unique look).
- JavaScript (transform a static HTML page into a dynamic interface).

- Bootstrap (a front-end framework containing HTML- and CSS-based design templates).
- jQuery (a cross-platform JavaScript library designed to simplify HTML).

5.4 Implementation of Interaction

Implementation of communication is finished considering the prerequisite of clients of a system. We have thought about the accompanying criteria for executing the cooperation of our framework.

- User satisfaction.
- Making the system easy to navigate.
- Having a comment section by creating a feedback option.

5.5 Test Results and Reports

Table 5.5.1: Login Report

Test ID	Date	Module	Test Cases	Test Data	Pass/Fail	Status of Bug	Comments
1	15/10/18	Login	Login as Admin	Admin's username and password	Pass	N/A	Only login panel for Admin
2	15/10/18	Login	Login as User	User's Mobile No and Password	Pass	N/A	Only login panel for registered Users

Table 5.5.2: Registration and verification Report

Test ID	Date	Module	Test Cases	Test Data	Pass/Fail	Status of Bug	Comments
1	15/10/18	Registration and verification	User Registration and verification	User's name,mobile number,password and finally the valid verification code.	Pass	N/A	Registration for the users

CHAPTER 6

Conclusion and Future Scope

6.1 Discussion and Conclusion

We have endeavored to complete the project and satisfy the reason for building up our venture. We are hopeful with our creation. Where everyone is thinking of creating system that would be beneficiary to them, we have thought of our farmers those are the driving force of our economy. Though they are contributing for our country, they are being deprived of their actual prices. Our aim is to stand beside them to help them to get the real price of their products and to connect them with the technology. We know well that the task is not so easy to make them capable of using this system but we are hopeful. Once our farmers weren't capable of using even mobile phones, but now they are using it. So why not they will be able to use this system? Our farmers will not remain uneducated all the years. After few years, they will be more connected with technology. It would be satisfactory if a single farmer gets benefited using our system.

6.2 Scope for Further Development

Our project can be enhanced with more features and contents to help the users. We have some planed about some features to be implemented in future to make the system easier and user friendly. Some of these features are discussed below:

- Speech to text for taking the input in various forms to make the system more usable for the farmers.
- GPS system for tracking the location of the vehicles
- Over all instruction of digital cultivation. Our system will automatically calculate the required amount of fertilizer of farmers land in details. (Farmers will need to provide land details)
- Soil test using our system.
- Insect detection applying the procedure of image detection.

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