

A WEB BASED APPLICATION FOR FARMERS CULTIVATION MANAGEMENT SYSTEM

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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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APPROVAL

This project/internship titled “Farmers cultivation management system”, submitted by Adnan Aziz ID no: 161-15-7327 to the department of CSE, Daffodil International University has been accepted of the requirement for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents.

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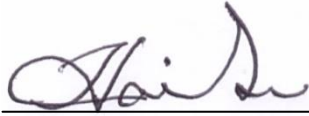


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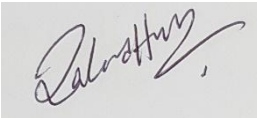


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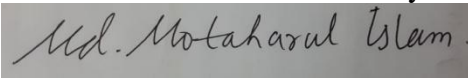


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In this project I declare that, this project has been done by me under the supervision of Mr. Saiful Islam, Senior lecturer of CSE Department, Daffodil International University. I also declare that neither this project nor any part of this project has been submitted anywhere for award of any degree or diploma.

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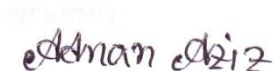
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ABSTRACT

In this project, I share ranchers development the executives framework and furthermore given a thought of my ranchers development the executives framework. This ranchers development the board framework is the best efficient online web application which give particularly advantage to proprietors and furthermore client's (clients). The ranchers development the board framework depends on to benefit the rancher and furthermore administrator. Where administrator can include proprietors and fix the item thought. The proprietor can refresh the client's data and proprietor can include, alter, erase the client, value, fix the paying date, installment history and furthermore can send the message to clients. The client can see all data and send the message to the proprietor moreover. The ranchers development the executives framework is best appropriate the proprietors on account of time spare, savvy online application, the simple online discount framework and so forth. The rancher's development the executive's framework is the best application in the city place. The client contacts an effectively look at a reasonable cost of the item. This System is sparing time too. The farmer's development the executive's framework is utilized to effortlessly distinguish an appropriate cost in spare time, cost moreover. The rancher's development the executive's framework is the most ideal path for the online framework.

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Chapter 1

INTRODUCTION

1.1 Introduction

Agribusiness is profoundly significant issue for our nation in light of the fact that the vast majority of the ranchers in town are rely upon this farming. The innovation utilized the ranchers of old is presently in accordance with the innovation of the day aren't significantly more helpful. Be that as it may, the ranchers of our own nation utilize those innovation for developing the harvests. Yet, this innovation not helpful for our nation. Measure of harvests are not expanding over the populace. So it's a major test giving bounty food to individuals. Our populace is expanding step by step. That is the motivation behind why, twenty five lakh expanded populace for every year has been gobbling up all the accomplishments in rural in this way. So our ranchers need to require better interface with the innovation and gets more data about agrarian issues, thusly they can create more measure of harvests and furthermore can improve the evaluation and nature of the yields. So we need gifted and prepared ranchers not exclusively to deliver more nourishments yet additionally to guarantee their salary and security for their families. So from this site they can realize the data stay different harvests, the employments of composts to this yields and in which soil these harvests given more items. Also, the atmosphere condition for this yields.

1.2 Motivation

We realize that the ranchers of our nation don't get great cost for there work. Numerous ranchers are taking advances from better places with high enthusiasm for development. At the point when the opportunity arrives to reimburse the credit with intrigue the ranchers cannot paid their advances with intrigue brought about by cataclysmic event, assault of creepy crawlies, less creation and so forth. From this site they will have the option to know the great proposal and get gifted.

1.3 Objectives

- Ranchers ought to get great cost through direct ranchers to providers.
- Have great correspondence between ranchers to ranchers and consultants.
- To build the security and pay for their families and their most splendid future.
- Ranchers need to improve their aptitudes.
- Assists with settling on choice available to be purchased item through market and best costs.
- Incorporates a preparation for the ranchers and rural understudies for better aptitude.
- Incorporates a preparation for the ranchers and rural understudies for better aptitude.

1.4 Expected Outcome

- To ensure the use of internet facilities.
- Trying to gather huge measure of information.
- To make the project interface in Bengali language so ranchers can get enough assistance.
- To build up this venture need to better gifted in different fields.
- Ranchers get great profit by this site.

For the most part this is guarantee the expert high-caliber and solid security online base web ranchers development the board framework and furthermore right data of each individual and simple online propose framework.

1.5 Report layout

Chapter 1:

In that chapter, I have discussed about motive, objectives and also better outcomes for my project.

Chapter 2: Background

In this chapter, I have conversion towards the background situation and also talk about the related work, compare to other applicant system, the scope of the problem and also challenges of the project.

Chapter 3: Requirement specification

In this chapter, given an idea about through the processing model, the requirement collection and analysis, use case model of the project and the description, the logical relational database model and the design requirement.

Chapter 4: Design Specification

In that chapter, we will be given an idea all of the requirement design, interaction design and also the implementation requirements.

Chapter 5: Implementation and testing

In this chapter, we will share the implement of the database, front-end design, interaction and the test result of the project.

Chapter 6: Conclusion and Future scope

In this chapter, we will discuss about the conclusion and the scope for the further development which very much derive of the project.

Chapter 2

BACKGROUND

2.1 Introductions

Farmer's cultivation management system is the useful and efficient for our farmers of the country. Since they can think about of the yields, manures, great soil for the development. This a completely and fabulous ranchers development the executives framework for item proprietors and furthermore user's. It is extremely helpful site for any sort of item available to be purchased. Where ranchers can get more data and they likewise can fix the cost for item deal. Along these lines the discount purchaser can know the cost and can purchased the item over the site. With this framework you can; List all the items you have include, evacuate, cost produce day by day solicitations at your purchaser gather cost from your purchaser see installment insights and effectively tell which purchaser have paid, not paid and have balances.

2.2 Related Works

In this framework, the ranchers can without much of a stretch old the data and take choice at their item cost and furthermore give all the data through the site to arrive at other discount purchaser available to be purchased. It's an awesome expert ranchers development the executives framework. I ensure this site is my defensive and high – quality database are in this framework, so there is no dread for lose anything through this site. I think it the most helpful for purchased and sold site for both of ranchers and the discount purchaser. So in the end I think this site increasingly phenomenal for use.

2.3 Comparative Studies

Our website farmers cultivation which is implement by me is very different website from other existing website. Where each discount purchaser can check the items and cost for sold through this site. At that point it is extremely valuable for the entirety of the client where ranchers can likewise require significant investment and no exercise in futility for both of all. Here each client (ranchers) can include, erase, update, include cost through this site. The ranchers development framework upkeep is simpler for clients and furthermore proprietor. This site likewise quick and don't require some serious energy a lot for arrived at the item over the discount purchaser.

2.1 Scope of the problem

- It is a place where all the wholesale buyer can be communicate to farmers, users can send the message, view profile and also easy to the payment system.
- Farmers can add buyer and take a decision for the product price
- Buyer also can add farmers, delete, update, view the payment history
- Buyers can easily create an account and log in then they can get access.

2.2 Challenges

In our life no work obsolete without challenge. In the long run, in my undertaking I additionally confronted with different protest. Right off the bat, I attempt to make this framework with administrator, proprietor inspiration arrangement and I should need to finish the ranchers development the board framework necessity and it's a trying for us. However, my site application is open for recommend and furthermore purchased and sold based. Bangladesh is a creating nation where numerous ranchers additionally look for their development. Indeed, even they don't have the foggiest idea about the generally utilization of innovation, since they are back dated. Our test is arrived at this create innovation over the ranchers that they develop the more yields. where they can get all data from the site and substantially more splendid for their future.

This framework have another difficulties is numerous client access to at once. We will seek after how to understand or we will give arrangement of the issue. Here is the given beneath certain difficulties.

- Ensure the strong database for the site
- Manage the website is difficult
- Ensure the all information about farmers, wholesale buyer and other also
- Much more publicity
- Take decision which payment method is better

Chapter 3

REQUIREMENT SPECIFICATION

3.1 Farmers cultivation Management Information Process Modeling

In this farmers cultivation management system project, I have made a processing model over there. By that we can understand all the process of my project management system. Here is the given below:

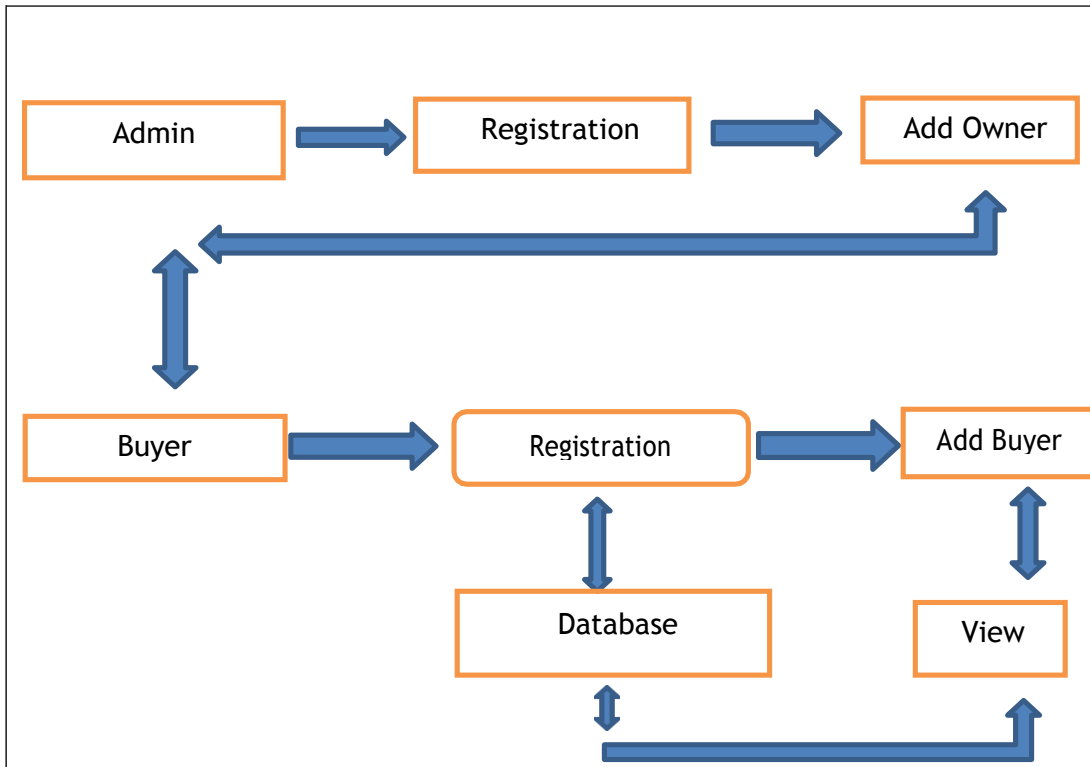


Figure 3.1.1: Farmers cultivation processing model

3.2 Requirement collection and analysis

Over there also some issues and very expected requirement was collecting over the implement of the application and also for the data collection. Here is the given below.

- Everyone is at a different time to message separately.
- Also needed to create the account for login like-farmers and buyer.
- For the registration need a valid email to access and valid email to reset the password.

3.1 Use case model

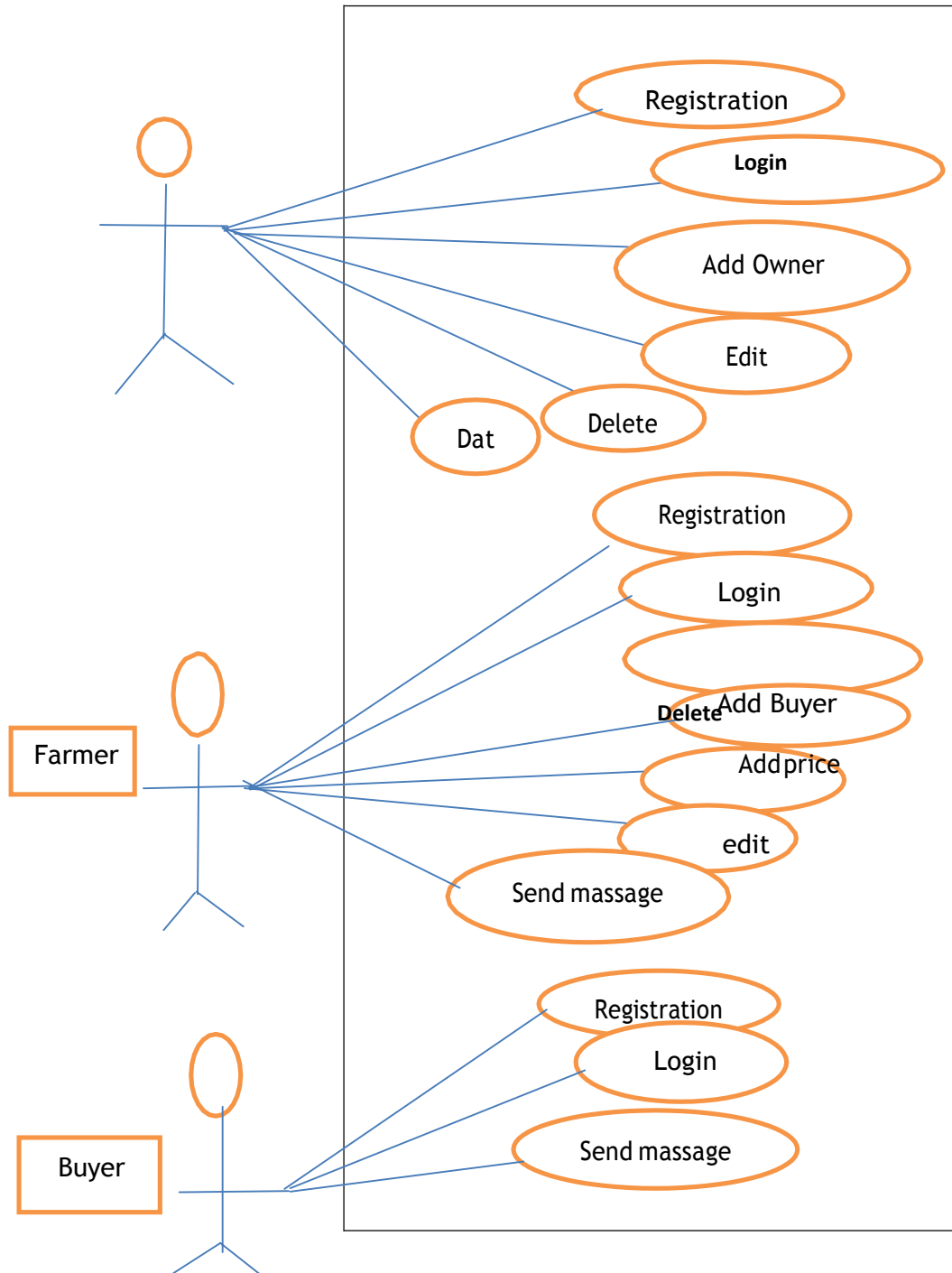


Figure 3.3.1: Processing model

3.3 Design Requirements

- This use case model are remain like Admin, Owner, and Buyer (Customer).
- Admin can add Owner.
- Owner and Customer will create an account.
- Farmers and buyers are send message for communication.
- Owner add, edit, delete of the buyer id.
- Both of them can view the payment history.
- Admin maintain all access.
- Everyone can view all product and price.

Chapter 4

DESIGN AND IMPLEMENTATION

In this chapter, I will display the graph of my farmer's cultivation management system. I also express the execution of all the tools and technology to make this our system. Here is the given I have shown how I check my whole system after ready.

4.1 Front-End design

Essentially, front-end took a shot at the introduction layer. It showed to the client it's the just one plan to connect with my helping the board framework. The front-end is the best extreme part in online turn of events. From the goggle site, the free data, Jump to route, search. Front-end web application, are known as the customer side site is the act of taking an interest HTML, CSS, and JavaScript for a site or Web improvement website so a client can likewise observe and interface with them legitimately. Here the administrator make component and attributes truly got to through the client a front-end advancement or a framework. That is the plan of association with the client and the server. Where the front-end configuration is otherwise called a customer side improvement zone. Valuable of programming improvement, the most extreme part is to plan the front-end. Here I made a front-end plan for of all the client to associate with the product without any problem. Some frontend configuration are here.

4.2 Home page:

In this project, this is the home page and there is a login menu bar.

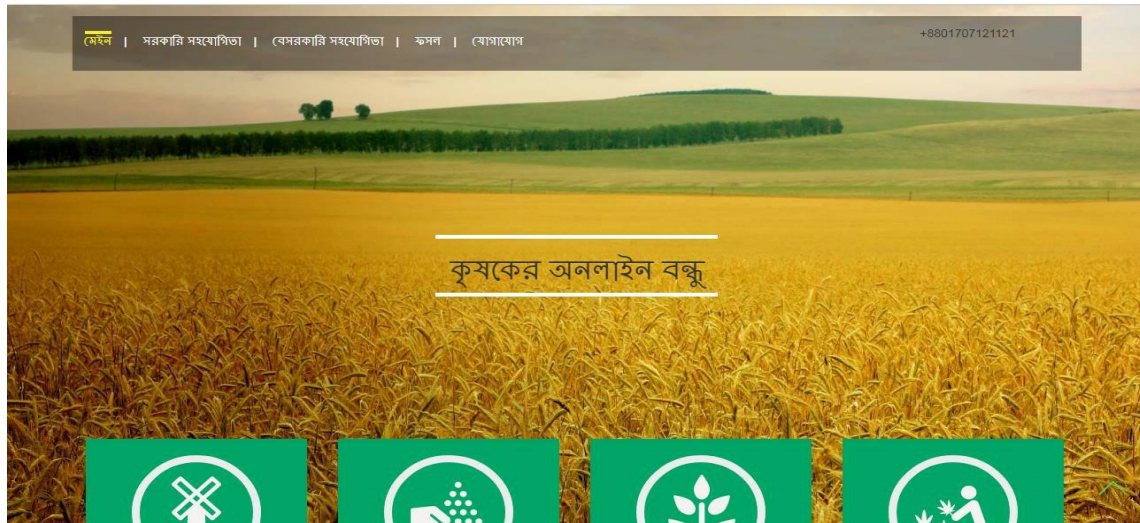


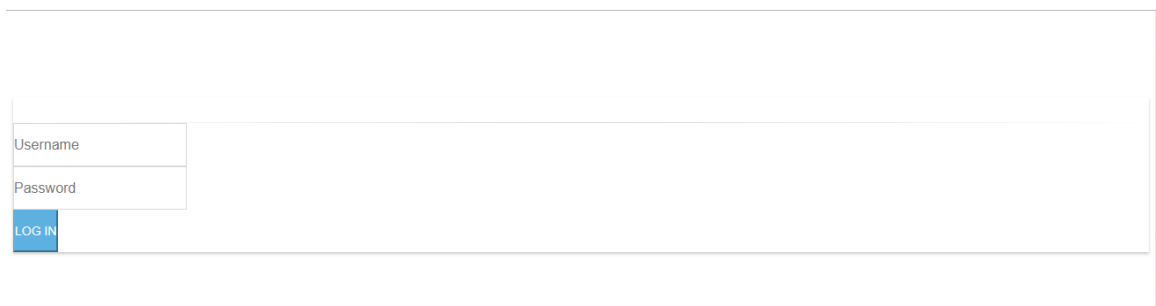
Figure 4.2.1: Home page in Desktop

Become a front end web developer: -

- To teach HTML , CSS, JAVASCRIPT, JQUERY, and BOOTSTRAP.
- Build things. Playing around with UI elements is one thing.
- Read and Contract
- There are more to front-end development than building a website application.
- Version control will save your life and make sure the all save information.
- Be the middleman.

4.3 Login page

Here is the login page of my project and which execute all the basic format.

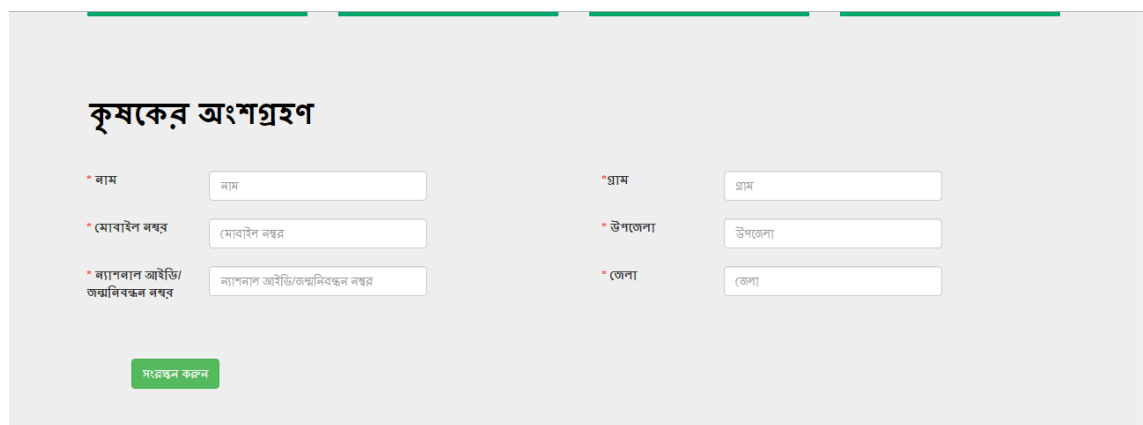


The screenshot shows a simple login form. It consists of two input fields: one labeled 'Username' and one labeled 'Password'. Below these fields is a blue button with the text 'LOG IN' in white capital letters. The form is set against a light gray background.

Figure 4.3.1: Login page

4.4: Farmers registration page

Here is the farmers registration page where farmers can get enter the website and get the



The screenshot shows a registration form titled 'কৃষকের অংশগ্রহণ' (Farmer's Participation) in Bengali. The form is organized into two columns. The left column contains three fields: 'নাম' (Name), 'মোবাইল নম্বর' (Mobile Number), and 'ন্যাপনাল আইডি/অন্যান্যনাম্বার' (NAPANAL ID/Other Number). The right column contains three fields: 'গ্রাম' (Village), 'উপজেলা' (Upazila), and 'জেলা' (District). Each field is a white input box with a light gray border. Below the fields is a green button with the text 'সংগ্রহণ করুন' (Submit) in white. The background is light gray with a green horizontal bar at the top.

information about the fertilization.

Figure 4.4.1: Farmers registration page

4.5 Farmers services

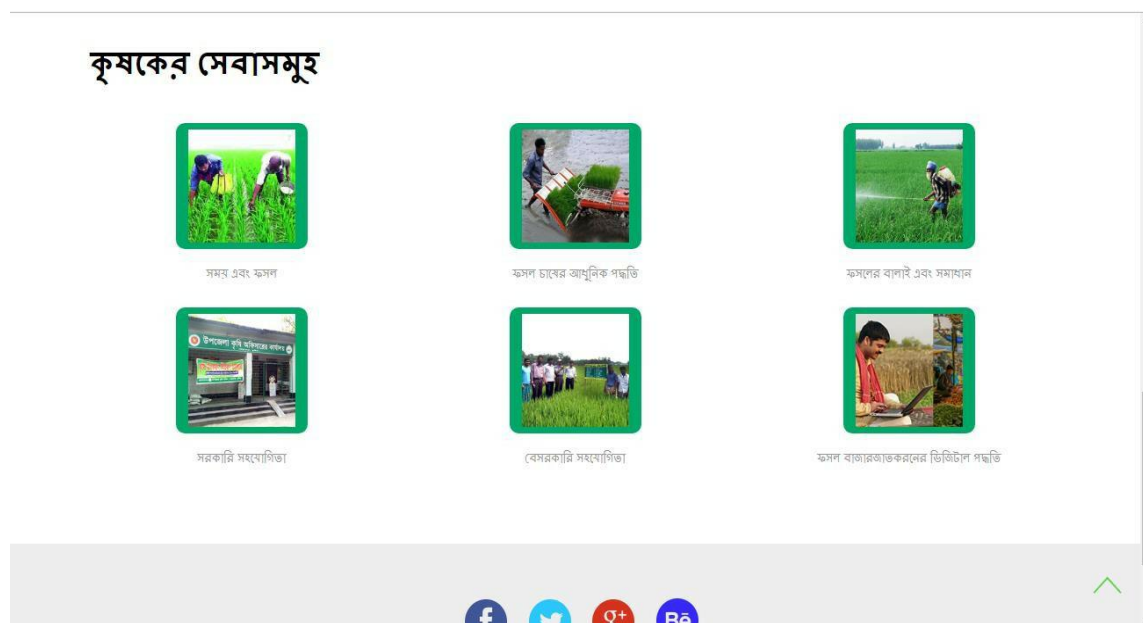


Figure 4.5.1: Framers services tools

4.4 CSS

Therefore, CSS is the style sheet language (Cascading Style Sheets). It is utilized to portray the introduction of documentation composed by HTML. For example, XHTML, SVG, and so on. CSS depicts how the component ought to be rendered on screen and furthermore CSS is one of the center dialects of the open web and estimating across internet browser.

4.5 BOOTSTRAP

Bootstrap is a free and furthermore open-source front-end web system. It has HTML and CSS based structure format for the structures, catches, route, and another interface segment. It is otherwise called JavaScript augmentations. In contrast to numerous prior web structures, it nervousness itself with front-end advancement as it were.

4.6 JAVASCRIPT

JavaScript is an elevated level clarify programming language that fit in with the ECMA Script detail. It is a programming language that is isolated as powerful, pitifully composed, model based and multi worldview. The importance of JavaScript is the measure of rules and furthermore show a privilege organized JavaScript program.

4.7 JQUERY

JQuery is a JavaScript function which is structured to describe HTML DOM tree traversal and control, like as handling, CSS animation, and also Ajax, etc. It's independent, where open-source software using the accepted MIT License. Web analysis show up that it is the most too big circulate JavaScript library by a large margin [6]

- JQuery is a little, quick JavaScript library.
- JQuery is period autonomic.
- JQuery mark "compose less accomplish more".

Here is the following critical of JQuery:

- HTML control
- DOM control
- DOM element selection
- CSS control

- HTML purpose techniques
- Extensibility through modules
- AJAX
- HTML event methods
- JSON Parsing

4.8 Back-end-design

The rational portion of the software occur in the back-end design. This is the most ultimate portion of the software. The entire software system get on it. Basically back-end mention server side system. There are many factor structure like the scripting languages or the server side language, Automated framework, security, authentication, authorization, data Parsing, data validating, data backups as wall . I displayed **“Farmers Cultivation Management System”** through Rawphp and also use code igniter framework.

4.9 PHP

PHP is an essential reason programming language chiefly organized for web advancement. PHP is framed word for "PHP: Hypertext Preprocessor". PHP is a completely exploit, open source scripting language. It is performs structure limits, from records on a framework it can make, open, read, structure, and furthermore close them. It can manage structures, for example amass data from records and furthermore save data to an archive. PHP can encode data.

4.10 XAMPP

XAMPP is a loosely and open-source web server resolution heaps. Most of the apache HTTP server, MariaDB database, and interpreters for scripts written in the PHP programming languages. XAMPP is a very easy to install and apache ordination for Linux, Windows, and Mac OS X etc.

4.12 Implementation requirements

- The graph of the project is needed to execute in the web programming language using raw php.
- Propose database is Mysql.
- Hosting service should be Linux based server.
- Cadastre information backup from the server.
- Login failed store in database.
- SQL injection needed to protect with string fleeing.
- Java script is used for form validation.
- Verifying cross-site scripting language.
- Disallowed link needed to restrain with maximum link limit.
- Error message should be shown.
- In the front end and also design bootstrap framework is needed.
- For evident view, different types of fonts and icons are raised from Google font and dreadful.

Chapter 5

IMPLEMENTATION AND TESTING

5.1 Database Implementation

Because of managing Rawphp and MySQL I made the migration table which describes the object attribute and types of data. Since the MySQL, is the model database. For there is no direct sql query need the action. In this model, the data can be restrained if the user has the consent to input the data straight in the database. We used PHP my admin for DBMS. There are some tables in our DBMS which are

Users Registration Table: Information's such as full name, email, password, mobile, and status are saved in this table.

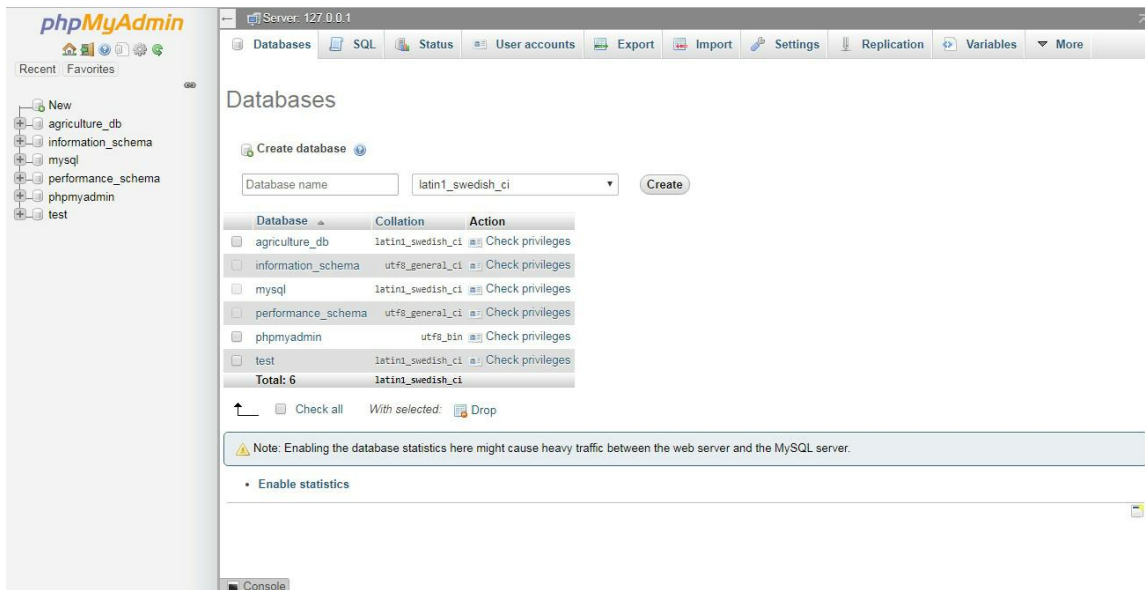


Figure 5.1.1: Database of all table

5.2 Front-end design implementation

It is very presumed to make a simple UI design for all of candidates, we try make as simple as Possible. At present, many of device laptop and desktop Etc. I make my website useful so that user can look over from various scheme with a terminal scale of the website and without trouble connected. I make interface correlative and evidence over the help of html, css, javascript and jQuery system.

Here is the given some front-end design implementation

- Every type of the candidates must be participated by fill up the given knowledge field.
- User must be login manage their valid email and password.
- For the information update about user profile, all the user must be admit into the email and password for the indemnity intention.

5.3 Interaction Implementation

Here is make my system I have executed useful UI for best candidates knowledge. In this project make things easy I use the ICON, text link, and button. The system design is user friendly.

5.4 Testing Implementation

Testing implementation is the method of checking the upcoming execution of a system, where checker or system constructor will see the instance and earmarked, is it executable or have a restriction.

5.4.1 Table: Testing implementation

Test case	Input	Output	Obtain Output	Yes/no	Date
Login	Email, pass	successful	successful	yes	5-06-2019
Password	Incorrect password	warning	Display warning	yes	5-06-2019
Setting	Edit, update delete	Display information	Show and Update all system successfully	yes	6-08-2019

5.5 Database Server and Administration Tools

The database server qualify the fabric to store and restore information that will be take advantage of by the framework. The organization instrument qualify the database organization to roll out reinforcements or any important benefit to the site's database. One of our list is to diminish the expense of the framework. For this cause, we choice XAMPP server for our database needs. It is picked in light of the fact that it is a credit and highly well-known open source database framework that is accessible free for accuse and happens to a large number of valued organization instruments [10].

5.6 Web server

Web server is a inflict software or hardware commonplace to present spouse software that can inflict World Wide Web client request. The web server can, in usual, comprise one or more websites. A web server execute incoming network insistence over http and various other involved draft.

5.7 PHP Server:

This web server was structured to given application development. It may also be useful for testing benefit or for application decision that are run in restricted conditions. It is not extend to be a full-content web server. This is not to be used to public network. The PHP server enables the host PC's program to execute PHP code and view PHP website pages.

5.8 FTP Server:

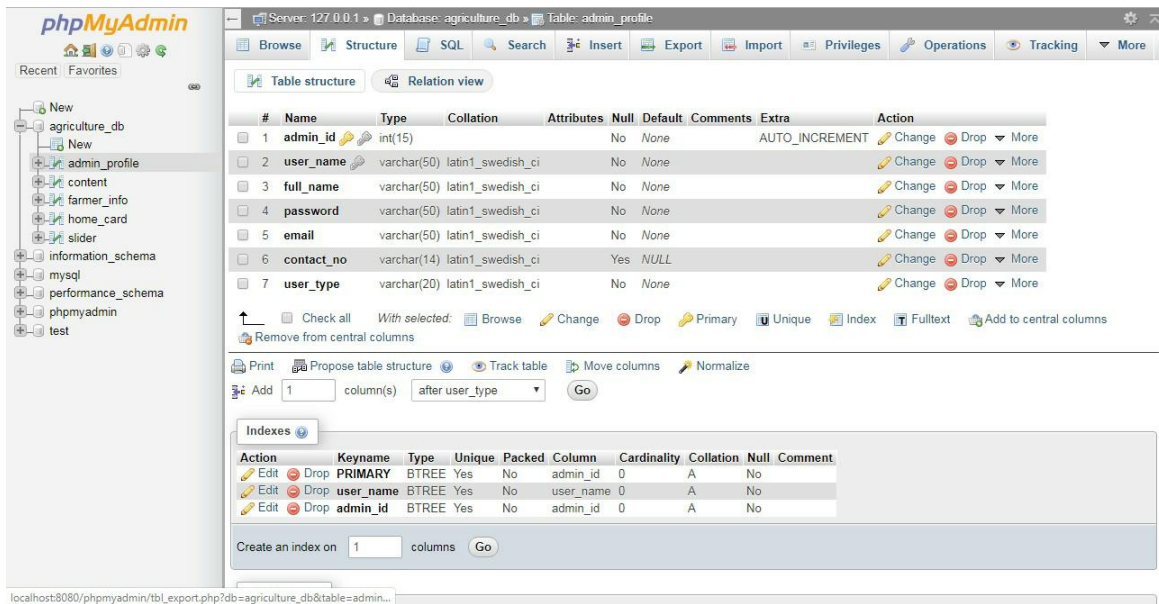
The FTP server enable registers to be alternate to the facilitate PC server take advantage of the document exchange convention. This should be possible by means of the web, which permission the web based business site's documents to be recovered from any area that has a web fraternity. The freeware war FTP FileZilla was to achieve the assignment of setting up a fully useful FTP site. The FTP webpage permitted the advance and testing of the site to be done from various area. The War RTP FileZilla go together a broad security highlight that surety that just approved clients access the site's documents. Validation is finished utilizing a username and secret word. The FTP FileZilla is accessible.

5.9 Test result and Reports

This Test Report is needed to gleam testing results in a formal way, which gives an opportunity to estimate testing results quickly and also very faster. It is an information that bureau data received from a compensation test in an overall manner, describes the environmental or operating conditions, and also shows the comparison of test results with test objectives. The test report is very significant and it is needed to know the system. It is an information that records data received through an appraisal execution. I need to check over many kinds of testing.

5.10 Admin Part and Owner part

Owner can easily login with email and password and add people, and fix the price of this farmer's cultivation management system.



The screenshot displays the phpMyAdmin interface for the 'agriculture_db' database, specifically showing the 'admin_profile' table structure. The table has the following columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	admin_id	int(15)			No	None		AUTO_INCREMENT	Change Drop More
2	user_name	varchar(50)	latin1_swedish_ci		No	None			Change Drop More
3	full_name	varchar(50)	latin1_swedish_ci		No	None			Change Drop More
4	password	varchar(50)	latin1_swedish_ci		No	None			Change Drop More
5	email	varchar(50)	latin1_swedish_ci		No	None			Change Drop More
6	contact_no	varchar(14)	latin1_swedish_ci		Yes	NULL			Change Drop More
7	user_type	varchar(20)	latin1_swedish_ci		No	None			Change Drop More

The interface also shows the 'Indexes' section with the following table:

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	admin_id	0	A	No	
Edit Drop	user_name	BTREE	Yes	No	user_name	0	A	No	
Edit Drop	admin_id	BTREE	Yes	No	admin_id	0	A	No	

Figure 5.10.1: Admin part and Owner part

Chapter 6

CONCLUSION AND FUTURE SCOPE

Here we are coming in the last chapter. In this part, we situation about our like and end. Here we experiment the posterior breadth and how it could have been something more.

6.1 Discussion and Conclusion

At long last, we have completed our undertaking the online ranchers development the executives framework. It was the enthusiasm of time to make a ranchers development the board framework in our nation. The procedure will bring to association among tutor and ranchers through the administrator. Farming has running a key job in the improvement of human graciousness. The kind of the agribusiness, they have created, with the assistance of innovation, it will raised to another level and they will be progressively gifted then previously.

6.2 Scope for Further Developments

In this project there are a lot of things chances to create it more user neighborly. Some future Scopes are discussed in the below.

- Create Android and iOS Apps of the helping system.
- Try to create live chat system.
- Update payment System with SSL
- In future our project will be anywhere in Bangladesh.
- In the future, we intend to implement an artificial intelligence which will put the feedback automatically in the future.
- Make sure that can submit an individual post within a time frame.
We will implement a notification system.

APPENDIX

Appendix A

Project reflection: From spring 2019 semester I introduced my precession to create a farmers cultivation management system for the user. I imitated the project for the improve to performance and follow up my creation and reach to my intension. Wholesale buyer also can use this and it will save valuable times as well. I imitated the process to counsellor my system, with the hard work and take more time to complete my project.

The project **“Online Farmers Cultivation Management System”** will very much favorable for both owners and buyer to communicate and also easy to use. The user will take a proper information. That they will able to perform the task easily and solve the many problem with through this website.

So we believe that my “Online farmers cultivation management system” will be able to certain and precious site for our society.

Appendices B

Combination and acronyms HTML:

Hypertext Markup Language. PC:

Personal Computer.

CSS: Cascading Style Sheets.

PHP: Hypertext Preprocessor.

Framework: Code Igniter PHP

VI: Visual Instrument.

DOM: Document Object Model.

AJAX: Asynchronous JavaScript and XML. JSON:

JavaScript Object Notation.

XAMPP: Cross-Platform (X), Apache (A), MySQL (M), PHP (P) and Perl (P). UX:

User Experience.

SDLC: The systems development life cycle. RTP:

[Real-time Transport Protocol.](#)

FTP: File Transfer Protocol

DBMS: Database Management System.

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