

Let's make our city greener
FORESTBD: Web Based Project

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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 “Let’s make our city Greener: a web-based project”, submitted by Md. Rayhan Haque and Tuhin Talukdar, ID No:161-15-7445 and 161-15-7478 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 and approved as to its style and contents. The presentation has been held on 06 December 2019.

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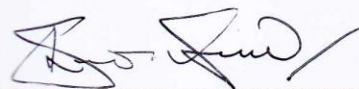
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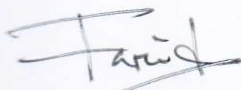
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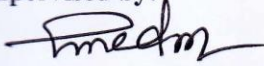
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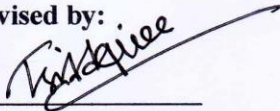
We hereby declare that, this project has been done by us under the supervision of **Ahmed AlMarouf, Lecturer, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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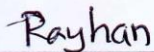
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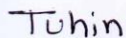


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ABSTRACT

Our Project name is “Let’s Make Our City Greener”. This is a Web-based e-commerce site Project which will help the people’s to gardening in their home rooftop or balcony. This Project is also called Rooftop gardening because many people in our city are mostly interested to make a garden at the rooftop. This is a very useful project in our society. If we increase our trees for society our climate will be changed & we can also prevent to protect of our greenhouse effect. Our e-commerce project is not only helping our society it also helps our real-life project to our animals where lives in the jungle. Trees supply oxygen and decreases carbon dioxide that’s helpful for our society. E-commerce project provides business-to-business (B2B) procurement solution on a virtual platform and explores the commodity price in one platform that’s also helpful for our society. It is very important to protect our natural things. We are going to make a greenhouse society not only our society exactly but also our city. We are making our society a natural & lovely city in the world. After complete this project, we are getting over wall achieving natural city with tree plantation. With this project not only users will get benefits but also the nursery owner’s will. So, I think this will help our city to increase the number of trees and for that environment will also increase oxygen and decreases carbon dioxide.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

This is a Web-Based application it gives the opportunity to users to know about gardening anytime from anywhere. Here, users can view their expected details about gardening, which will save time & reduce troubles. And nursery owners can provide their service through it. And the most important feature is users will have an idea which plant is suitable for the place, what the plant needs to grow up properly. Users will also able to find the nearby nursery. In urban area sometimes we can see that nurseries are far away people can place an order through the website. This website can make the impact of pollution in city areas.

Overall, we are achieving a natural city with tree plantation and also our benefits. It is not only our benefits but also for all mankind.

1.2 Motivation

We are going to make a green City. We are not only going to sell trees as well as we are also going to sell flowers and natural related products for making a green Dhaka city.

We are going to solve our natural disaster in control and also control all types of pollution, nowadays which is a big issue in our city with tree plantation.

We are making a natural and lovely city.

1.3 OBJECTIVE

We want to make an interface where the owner of any nursery can register and show his item with a price tag. And the buyer also can register and can buy or cart items.

As a buyer they can buy here:

- Tree (There will be the category of trees in our site or app),
- Flowers,
- Pets (Cats, Dogs, Birds, Fish), Pets foods and Aquariums also,
- Honey etc.

1.4 Expected Outcome

This project's expected outcome is to develop a website that will make an easy way to gardening.

It is exceptionally hard to keep up the nurseries. Be that as it may, utilizing this site it will be simple. It will be useful for clients. It will be useful for clients. Clients can without much of a stretch affirm their things through this site.

People don't discover a lot of time for cultivating in their bustling life. This site will assist them with finding their normal plants, how to look after them, what are the advantages of that plant which spot is appropriate for developing this plant. So it will conquer every one of the difficulties.

As we referenced previously, still this site can be overseen by nursery proprietors if the administrator put their items data into the database so we will have the option to utilize it for business reasons. What's more, we trust that everybody will cherish it.

1.5 Report Layout

Website Layout for our report is as follows:

Chapter 1 contains Introduction

Chapter 2 contains is all about background of this website, Related Works, Comparative Analysis and Scope of the Problem is described.

Chapter 3 contains Requirement Specification- Business Process Modeling, Collection and Analysis, Data Modeling and Description, Design Requirements.

Chapter 4 contains Design Specification.

Chapter 5 contains Implementation and Testing. And finally,

Chapter 6 contains is having Conclusion and Future Scope.

CHAPTER 2

BACKGROUND

2.1 Background

Before beginning the project we've to think about a great deal to ensure about the task, its need just as the difficulties for our undertaking. As we've fixed our vision about the task and it is a sort of social work, we need to set ourselves up that is the reason we expected to foundation contemplates. In this part, we will portray our experience concentrates and how we arranged for this venture just as all that we expected to accomplish for making this task effective.

2.2 Related Works

For the beginning of our work, we needed to accumulate data. We had point by point inquire about on numerous Websites. We needed to experience different procedures too. We've to concentrate on certain issues like, do they diminish the issues individuals having for planting, how to devour troubles, how to do it, will be it works flawlessly how. We needed to remember that that we have a lot of information of each individual plant. So, we contemplated a ton about this and worked a great deal of time on this. We have checked everything about chipped away at various subtleties of plants to finish this.

2.3 Comparative Studies

We have experienced numerous sites and contrasted that and our undertaking thought before beginning. As per our examinations, Bangladesh is still in the best five of the most contaminated nations. So, we feel that we can give this administration immensely which can lessen contamination. A portion of the sites have various sorts of administrations yet our site benefits by and large. In this way, all clients have various types of advantages. Our task interface is exceptionally straightforward. Which is extremely simple to visit and get it. In our task, we have attempted to accomplish every one of these things. We have confronted numerous issues and limitations. Furthermore, we've effectively completed it with every one of the difficulties to build up the framework.

We have distinctive element:

Our Element include:

- Individual users can log in
- A wonderful slide show is integrated to this website which shows useful information for different kind of plants
- Search option
- Decoration idea
- Seasonal advice
- There are different types of users – admin, guest, registered, nursery owners which make this application more flexible.
- Add to cart
- Payment
- Users can search for nursery locations

2.4 Scope of the Problem

We have confronted various issues while doing this. The issue that happens in the customary cultivating framework is numerous to such an extent that we get an extremely enormous degree for improving ourselves. So generally, framework's confinement which is our extent of the issue – First of all, we consider residents urban zones need more space and time for planting. So, to arrive at our objective we need to limit the issues and that is at first making a major degree.

There is nothing to shroud individuals have lost their vitality and enthusiasm for gardening that a large portion of them find different troubles doing the planting, which is a major actuality these days.

So, we came up with a solution to this situation.

2.5 Challenges

The client of this website is general individuals and nursery proprietors. These Websites will know the overseeing arrangement of nursery arranging splendidly. So they can utilize this Website and get data. We confronted difficulties in numerous things. While chipping away at the task we make sense of certain difficulties. As we accepted that without challenge and hazard.

We can't pick up anything, so we paid attention to those difficulties very. These are some significant difficulties –

- Had to figure out problem and expected outcome
- Planning UX
- Make it easier
- Categorizing problems and working process
- Approval
- Inserting data into firebase and retrieving from it we faced some problems

CHAPTER 3

REQUIREMENT AND SPECIFICATION

3.1 Introduction

The requirement particular methods the necessities of the framework, how these requirements will be cultivated. This shows the issue individuals having and how the website is attempting to fathom. The outcome toward the finish of this is the necessity record. It speaks to in a reasonable and exact style what will be the outcome. This investigation speaks to the entire framework. The necessity report attempts to discover the issues individuals experiencing and this application will satisfy the objectives and how it will execute the subtleties.

The target of the website is to determine where the problem is, in an effort to solve the sufferings, evaluating project goals, come to a solution to problems. It is the next step where the requirements of users are finding out about what services should be provided. Here the project goals, functions, operation of the application is defined.

3.2 Requirement Collection and Analysis

Requirement gathering and evaluating them is the most significant part of any undertaking in light of the fact that the entire task relies upon it. Arranging is required in each development. Greatest of the projects failed because of without preparation the project requirements or due to the wrong or unsatisfactory requirement gathering. The undertaking group should accumulate all the important prerequisites for the task, generally, the venture will be in danger. This may cause numerous issues likewise the consequence of the full task can be hampered. Requirement examination decides those systems to be utilized by experts to extricate application issues and arrangement necessities from the clients. Necessity gathering and examination is exceptionally advantageous and troublesome too. The Requirements incited from the arrangement of various perspectives will be archived and broke down in this procedure. In the wake of amassing every one of the necessities and examining them, we have discovered the fundamental highlights that our website needs. Concerns are familiar through dialog with the rule requirements for the Website.

In right now, individuals have a longing for cultivating however very little persistence. The issue is they find numerous troubles for cultivating, for example, they are coming up short on space, discovering plants, nurseries, how to develop plants, and so on. We need to spare our Mother Nature, time, cash and we can make the air wonderful for all by utilizing this application. The earth encompassing us is getting dirtied step by step, it is smarter to planting trees to shield ourselves from calamity.

There are many processes in requirement collection and analysis. The procedure may be different from each other dependent on the condition. Here main factors are the website should be useful and user-friendly.[1]

3.3 Use Case Modelling and Description

Use case charts are normally mentioned to as conduct graphs that portray how client utilize a framework and how the framework ought to play out a lot of activities. It is a displaying system that decides the highlights to be executed. Every single use case offers some conspicuous and significant outcome.[2]

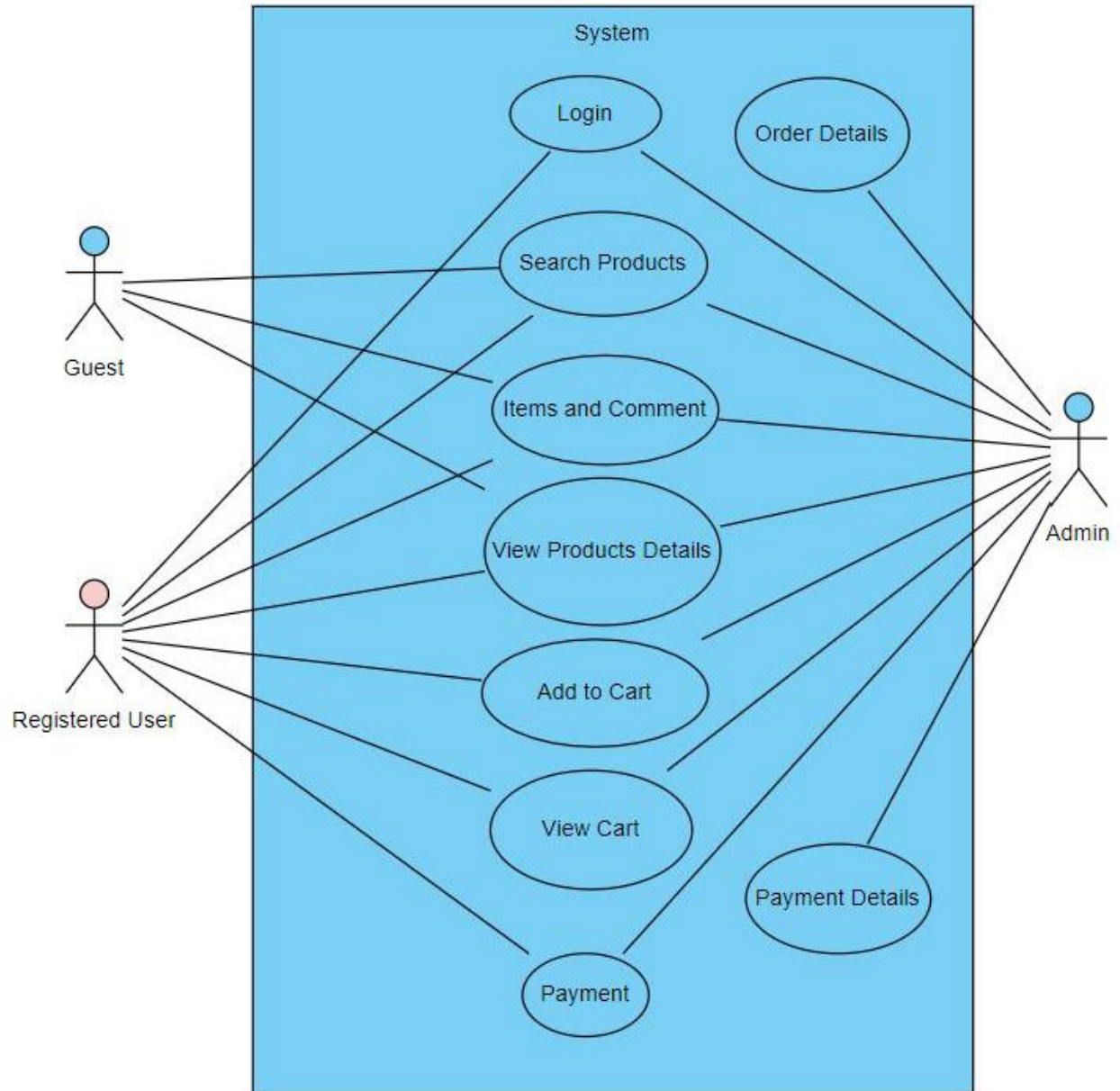


Figure 3.1: Use Case Model

User use case details

Table 3.1 Use Case of User Login/Sign up

Use Case #01	
Use Case Name: User Login/ Sign up	
Use case details	Login to and access all functionalities.
Precondition	Open website and browse login page.
Actor	User.
Normal flow	Enter Email. Enter Password.
Alternative flow	Redirect to homepage.

Table 3.2 Use Case of Guest User

Use Case #02	
Use Case name: Guest User	
Use case details	Can't access all functionalities.
Precondition	Open website and browse it.
Actor	Guest User.
Normal flow	Get all information Can't add to cart.
Alternative flow	Log in & get registered.

Table 3.3 Use Case of Search Products

Use Case #03	
Use Case name: Search Products	
Use case details	Search desirable product.
Precondition	Open website and type into search bar.
Actor	Both Registered & Guest User.
Normal flow	Enter Product Name. Select Product and add to cart.
Alternative flow	Redirect to homepage.

Table 3.4 Use Case of Decoration idea

Use Case #04	
Use Case name: Admin Login	
Use case details	Get decoration idea for gardening.
Precondition	Open website and get into decoration page.
Actor	Both Registered & Guest User.
Normal flow	Get decoration idea. Comment.
Alternative flow	Redirect to homepage.

Table 3.5 Use Case of Products

Use Case #05	
Use Case name: Products	
Use case details	Select products and get all the information.
Precondition	Open website and select products.
Actor	Both Registered & Guest User.
Normal flow	Select product. Know all information
Alternative flow	Redirect to homepage.

Table 3.6 Use Case of Add to Cart

Use Case #06	
Use Case name: Add to Cart	
Use case details	Login to the website and buy product.
Precondition	Open website and get registered in login page.
Actor	Registered User.
Normal flow	Select product. Add to cart.
Alternative flow	Redirect to homepage.

Table 3.7 Use Case of View Cart

Use Case #07	
Use Case name: View Cart	
Use case details	Login to the website and buy product.
Precondition	Open website and get registered in login page.
Actor	Registered User.
Normal flow	Select product. Add to cart.
Alternative flow	Redirect to homepage.

Table 3.8 Use Case of Payment

Use Case #08	
Use Case name: Payment	
Use case details	Add to cart and pay 50% taka of the product to confirm order.
Precondition	Login with email.
Actor	Registered User.
Normal flow	Enter Transaction code, address, Phone Number. Place the order.
Alternative flow	Cancel And redirect to homepage.

3.4 Business Process Modelling

Business procedure displaying is the graphical documentation of a business procedure. Frequently called procedure demonstrating is the sensible portrayal or delineation of an association's business forms.

It gives a graphical portrayal by which engineers can without much of a stretch comprehend the application and actualize them.

The following figure 3.4.1 shows Business Process model:

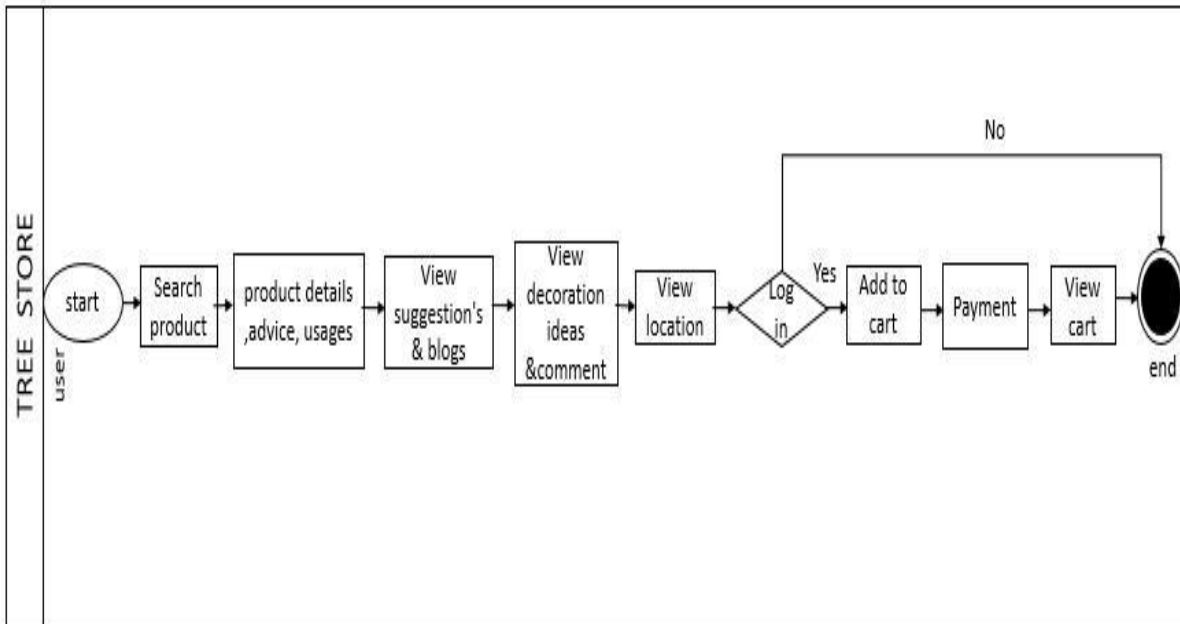


Figure 3.2: Business Process Model

3.5 Design Requirements

The structure prerequisites procedure is imperative for planning so as to be effective. It makes an application more clients amicable. To meet an application's objective forward and simple we should need Design necessities. The necessities for this task are given underneath.

Design requirements for User:

1. Login.
2. Search product.
3. Product details.
4. Plant advice.
5. Usages.
6. Decoration ideas.
7. Comment.
8. Suggestions & blogs.
9. Find location.
10. Buy products.
11. Payment.
12. View Cart.

Activity

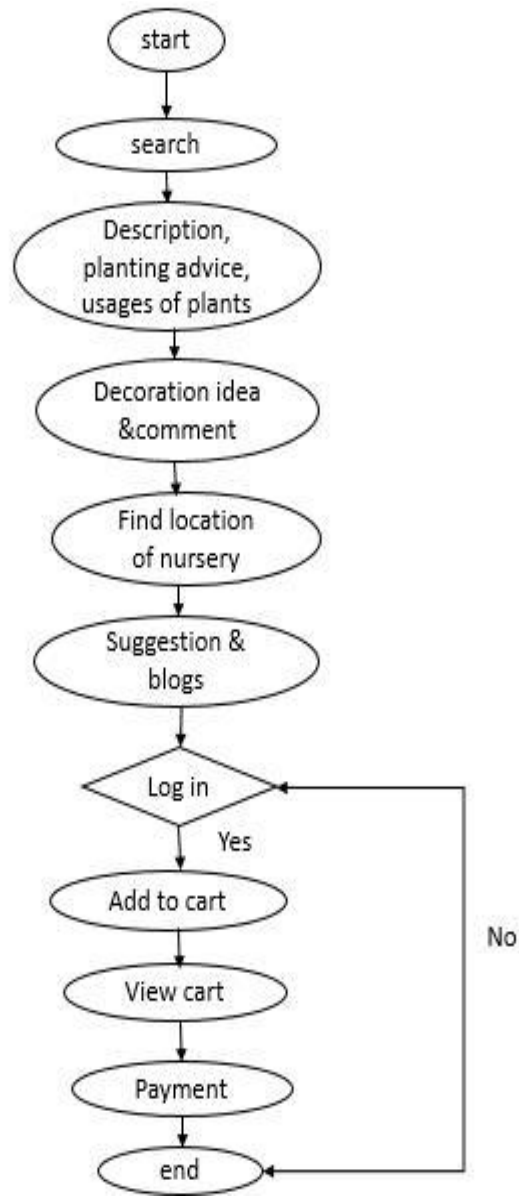


Figure 3.3: Activity Diagram

3.6 Tools for Web Management

There are some tools which is contains in our web management.

These are: -

- HTML
- CSS
- PHP
- MySQL
- JavaScript

A Short example of HTML

This sample code is used for keep some text information and displaying it in about section.

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<div class="m-auto aboutbox">
```

```
<b> ForestBD.Com.bd </b> is Firstest online e-commerce tree provider in Bangladesh.
```

```
We provide all types of trees and others service through multiple district.
```

```
<br><br>
```

```
We are going to maintain our environment and make a green city. And much more items will  
be included very soon. </div> </body> </html>
```

CHAPTER 4

DESIGN SPECIFICATION

The details of front-end design and back end design is provided in this chapter.

4.1 Front-End Design

Here contents of front-end of our project will be included. After opening of the website this Home page will appear to user.

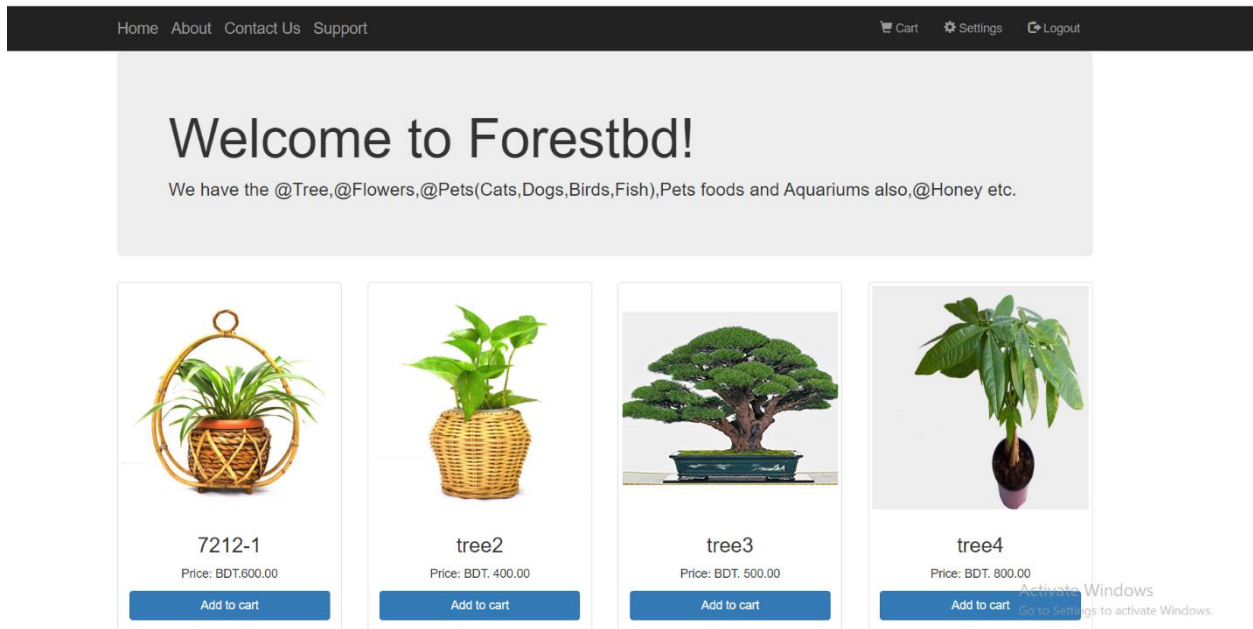
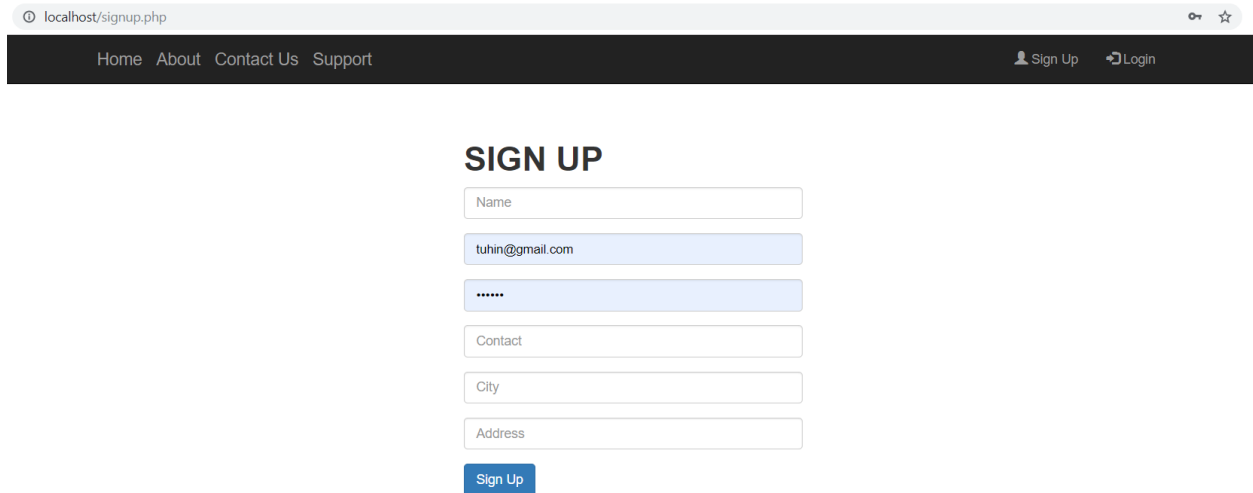


Figure 4.1: Home screen

It's our front-end work. When a user browses our website, it will look like this. Our all products are here, all the products are with the price tag.

Then user can log in or sign up to the Website. It requires mail and password of the user.

The following figure 4.2 is the layout of Sign up Page.



The screenshot displays a web browser window with the address bar showing 'localhost/signup.php'. The page features a dark navigation bar at the top with links for 'Home', 'About', 'Contact Us', and 'Support', along with 'Sign Up' and 'Login' buttons. The main content area is titled 'SIGN UP' and contains a form with the following fields: 'Name', 'Email' (pre-filled with 'tuhin@gmail.com'), 'Password' (masked with dots), 'Contact', 'City', and 'Address'. A blue 'Sign Up' button is positioned below the form fields.

Figure 4.2: Sign up Page

This is our sign-up page. In this page you need to Provide your Name, Email, Password, contact number, City, Address etc. for delivery and information purpose. This will save to our database.

User must Log in to buy any product.

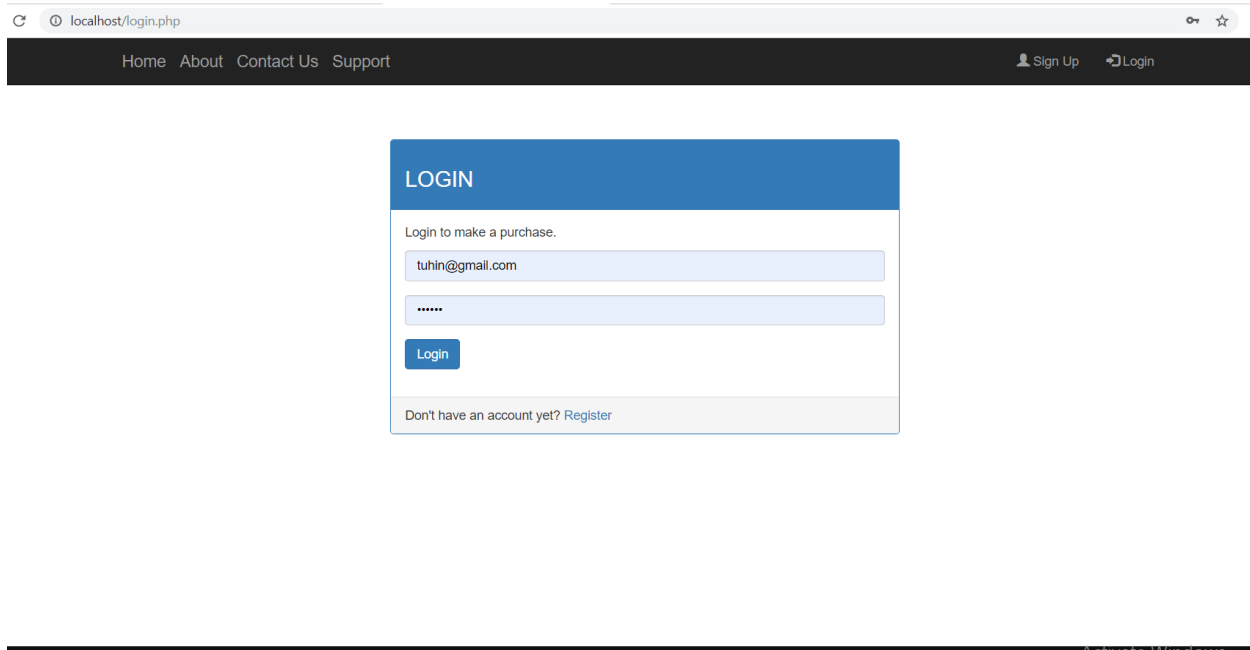


Figure 4.3: Login to buy product

This is the login page. After providing all information on sign up page and the data save on database you need to login first to buy any products.

This section displays how a user can search his/her desirable product.

The following figure 4.1.5 is the layout of Search Product.

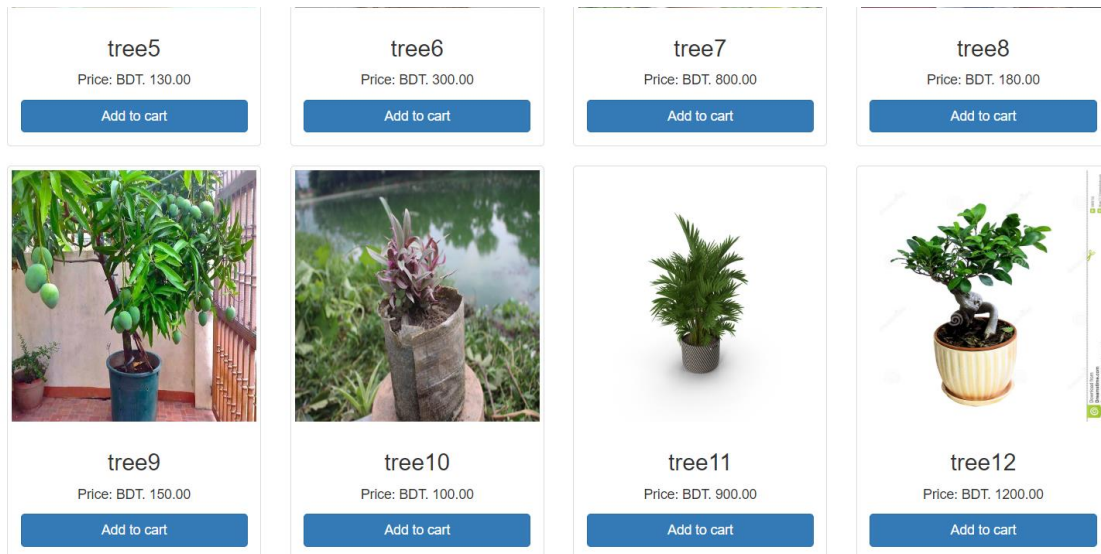


Figure 4.4: Search Product

This is our products list. If you want to search any type of products the products are shown like this.

As the user added product to the cart, they can see their cart list.

The following figure 4.5 is the layout of View Cart.

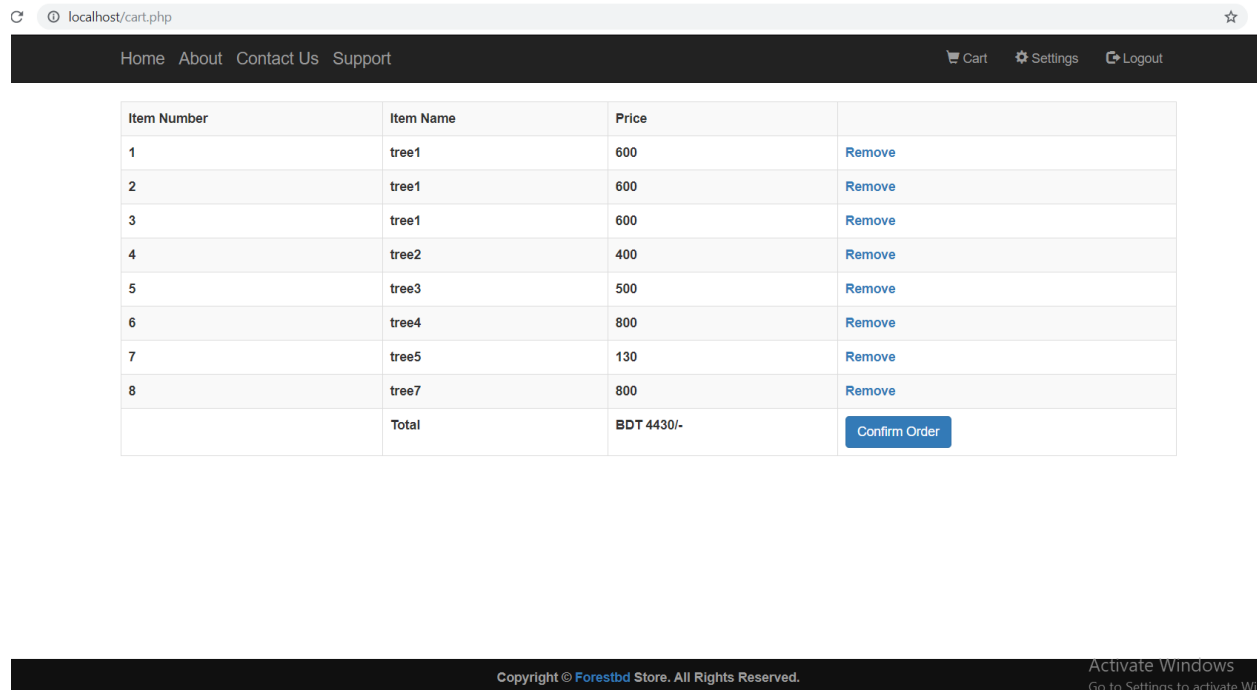


Figure 4.5: View Cart

After selecting some products and add the products in cart this page is look like this. Mainly this page is called ADD TO CART.

As the user added product to the cart, they have to pay 50% of the product to confirm the order.

The following figure 4.6 is the layout of Payment.

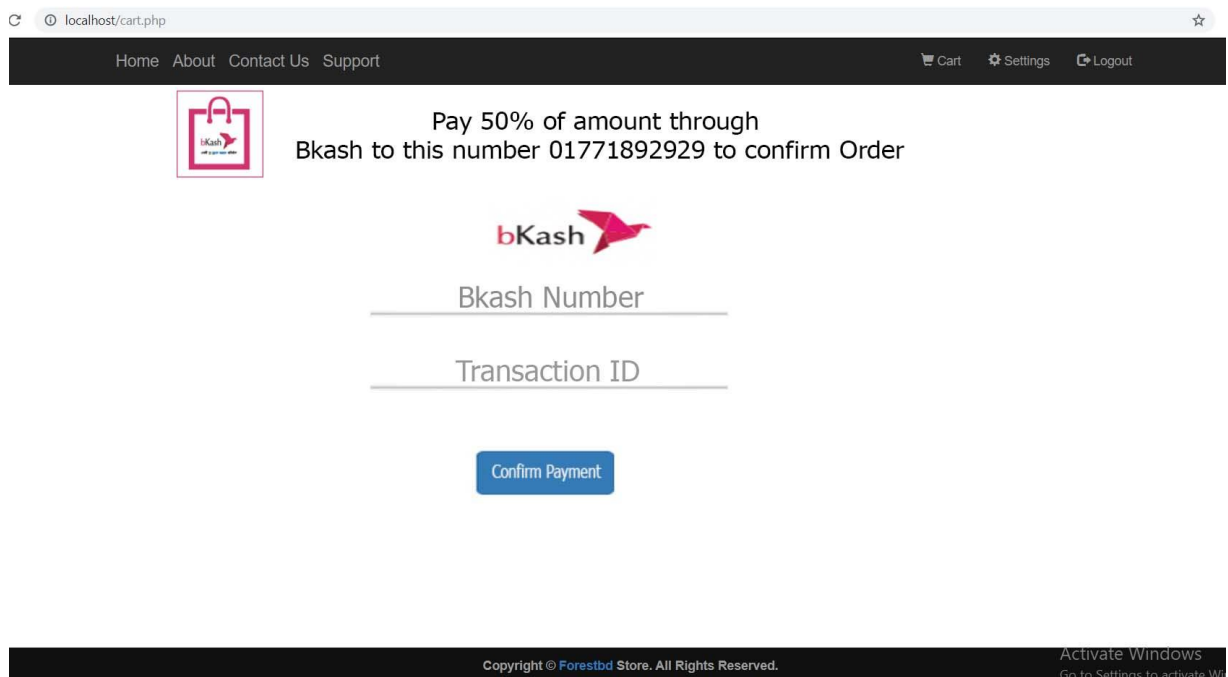


Figure 4.6: Payment

After add to cart page if you confirm any order then you need to payment 50% of total order payment through BKash. After Placing an order, you can payment another 50% of payment to the delivery man means 50% cash on delivery.

In this section the aim is to helping users to have some information about us

The following figure 4.1.13 is the layout of About us.

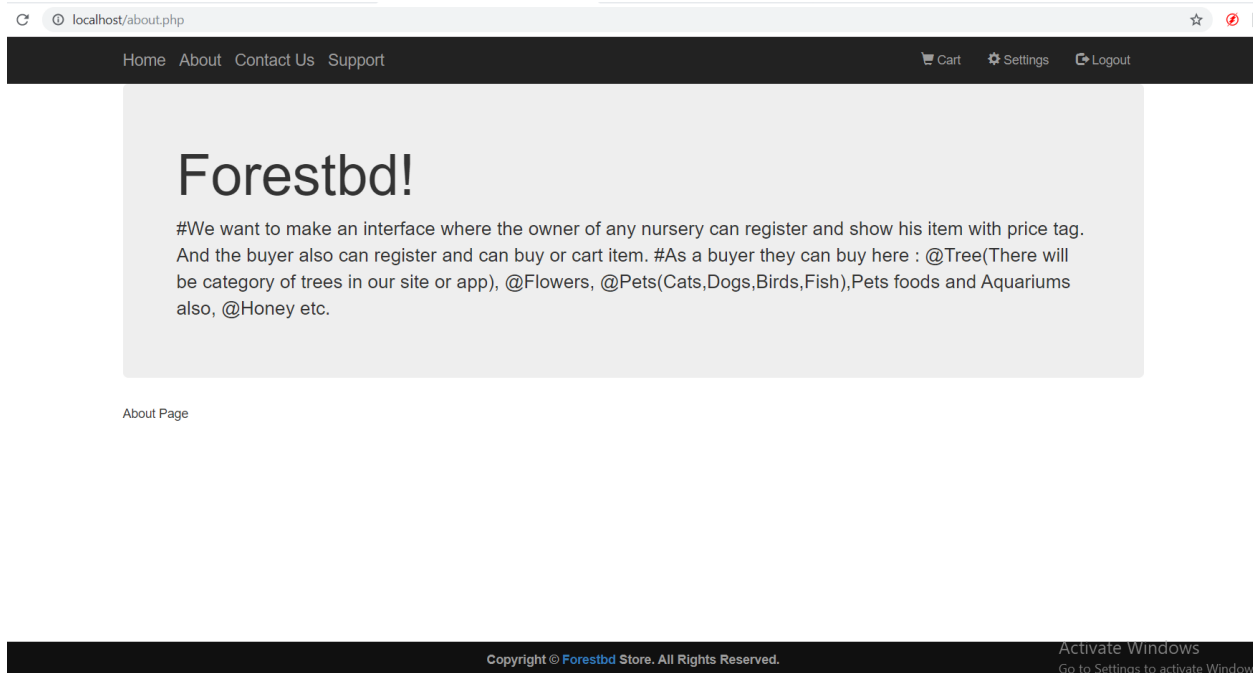


Figure 4.7: About Us

This is nothing, it's just a page about our website and us.

The most important thing is Change password. Here user can change his/her password.

The following figure 4.1.14 is the layout of Change Password.

localhost/settings.php

Home About Contact Us Support Cart Settings Logout

Change Password

Old Password

New Password

Re-type new password

Change

Activate Windows

Figure 4.8 Change Password

If you want to change your password for security purpose in this page you need to do this part.

4.2 Implementation Requirements

Implementation is the functioning, completing, or repetition of a strategy, a process, or any design, idea, model, specification, standard or policy for doing something.

For an implementation process to be effective, many tasks between different sectors need to be accomplished.

The followings things are required to implement this website.

- PHP
- JavaScript
- HTML & CSS
- MySQL

We used this software for the system implement

- Xampp
- Notepad++

4.3 HTML, CSS, JavaScript, PHP, MySQL, Bootstrap

- HTML is used for creating web pages
- For CSS stands Cascading Style Sheet
- PHP is remarkable as a back end
- Bootstrap is used for making the websites responsive.
- MySQL is one of the most important open source databases.

4.4 Back-end Design

This website has been developed on notepad++ with the help of xampp, and javascript.

4.5 Database

We used firebase to manage data we used in the website. Xampp is an online database management system which helps developers store data and retrieve the data information.

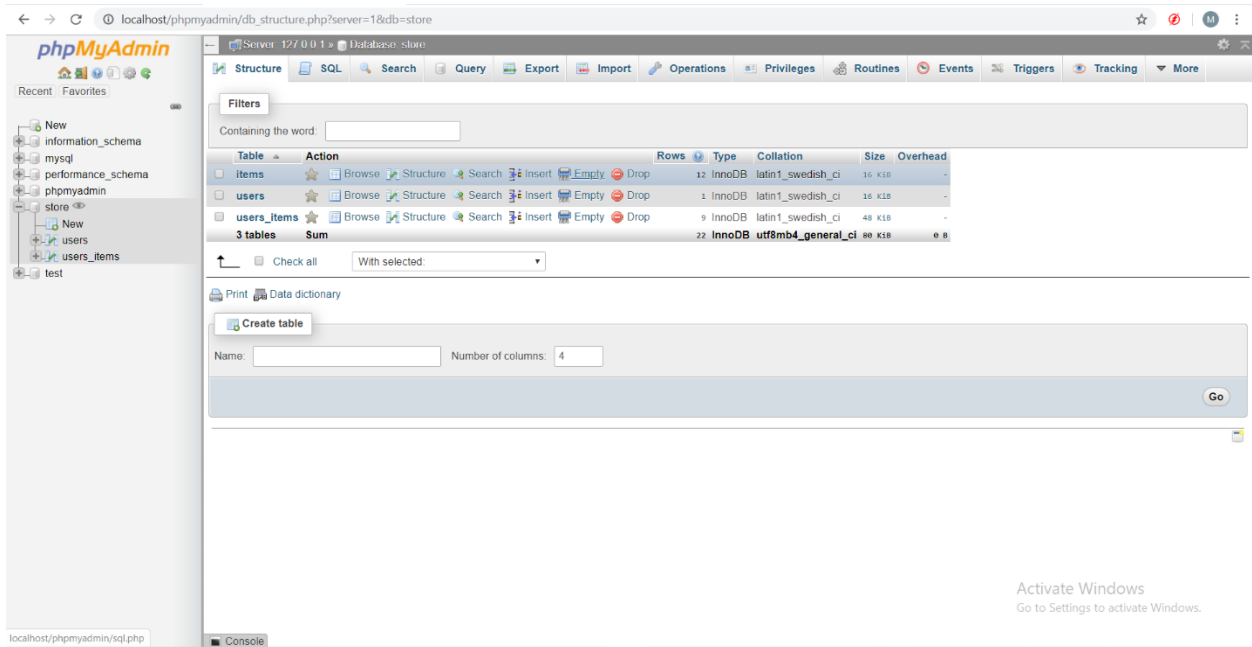


Figure 4.9: Users login in Database

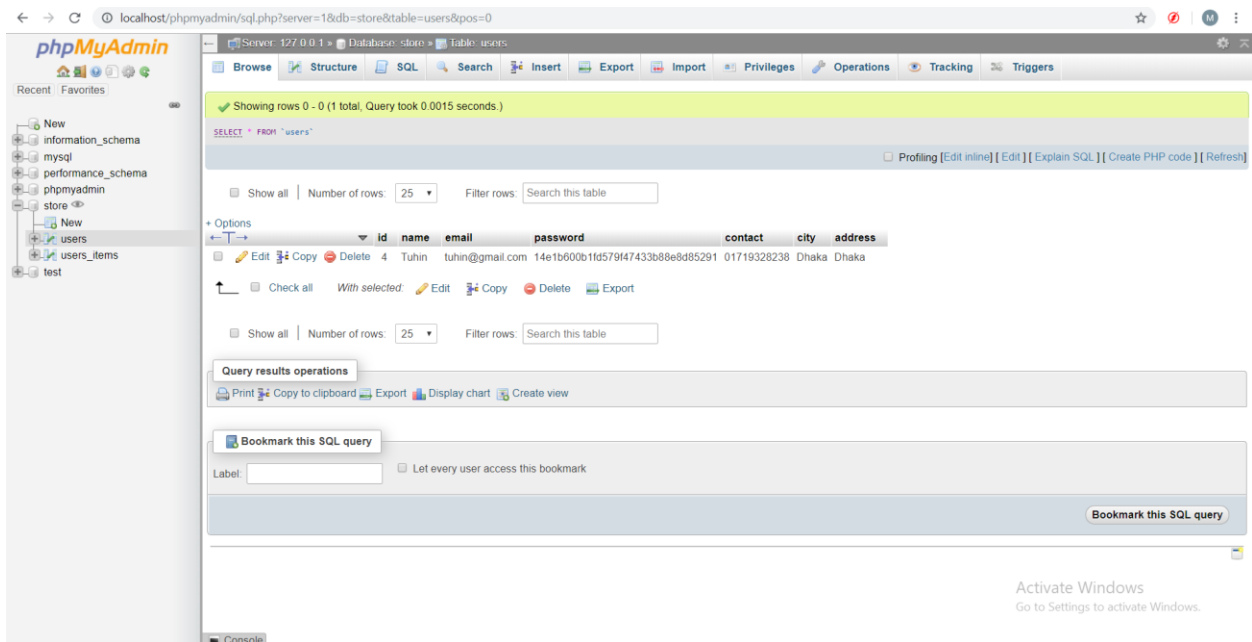


Figure 4.10: Users table in Database

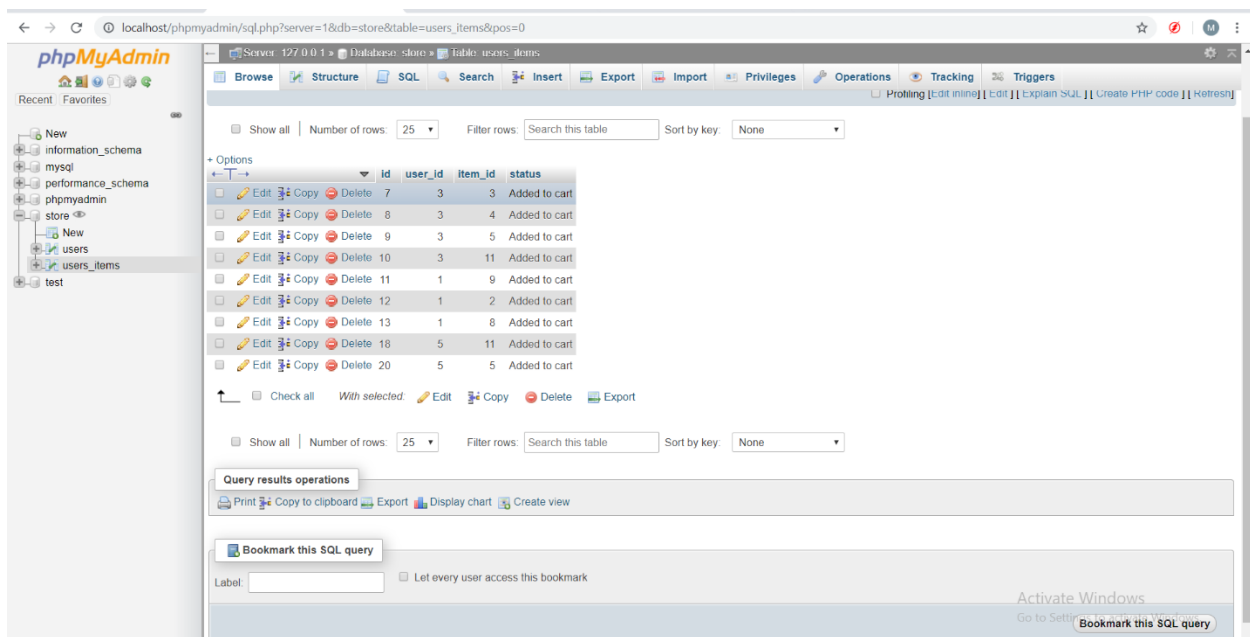


Figure 4.11: Users orders in Database

This is Our database page every order, payment, any data change and new users data will save here and only admin can access this database for any security reason.

CHAPTER 5

IMPLEMENTATION AND TESTING

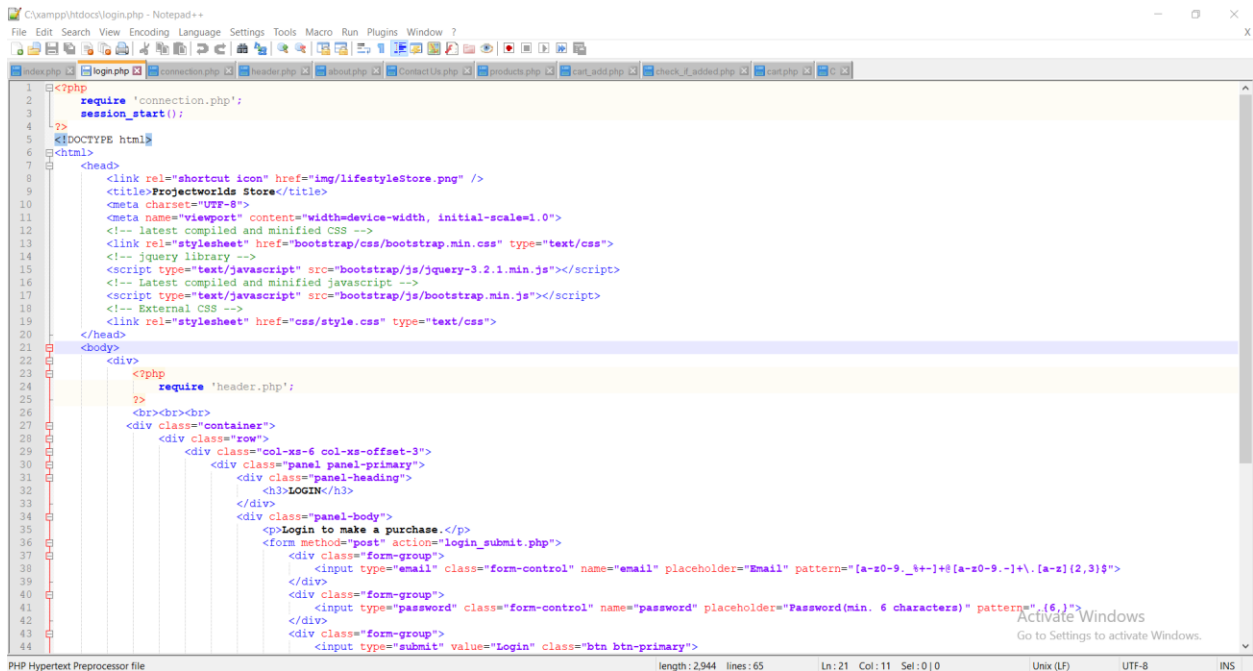
5.1 Implementation of Database

For overseeing information, we utilized Xampp database. We put away information in JSON group. Xampp is a Real-time database, it is additionally NoSQL. Here Data is put away as Jason and synchronized progressively to customers.

5.2 Implementation of Front-End Design

In web management Front-End-Design is Activity. In each activity there is one xml file and there is also layout to design website. Design is the view of front-end-design.

Sample file for one design is given below:



```
1 <?php
2 require 'connection.php';
3 session_start();
4
5 <!DOCTYPE html
6 <html>
7 <head>
8 <link rel="shortcut icon" href="img/lifestyleStore.png" />
9 <title>Projectworlds Store</title>
10 <meta charset="UTF-8">
11 <meta name="viewport" content="width=device-width, initial-scale=1.0">
12 <!-- latest compiled and minified CSS -->
13 <link rel="stylesheet" href="bootstrap/css/bootstrap.min.css" type="text/css">
14 <!-- jquery library -->
15 <script type="text/javascript" src="bootstrap/js/jquery-3.2.1.min.js"></script>
16 <!-- Latest compiled and minified javascript -->
17 <script type="text/javascript" src="bootstrap/js/bootstrap.min.js"></script>
18 <!-- External CSS -->
19 <link rel="stylesheet" href="css/style.css" type="text/css">
20 </head>
21 <body>
22 <div>
23 <?php
24 require 'header.php';
25 >
26 <br><br><br>
27 <div class="container">
28 <div class="row">
29 <div class="col-xs-6 col-xs-offset-3">
30 <div class="panel panel-primary">
31 <div class="panel-heading">
32 <h3>LOGIN</h3>
33 </div>
34 <div class="panel-body">
35 <p>Login to make a purchase.</p>
36 <form method="post" action="login_submit.php">
37 <div class="form-group">
38 <input type="email" class="form-control" name="email" placeholder="Email" pattern="[a-z0-9_!+]+@[a-z0-9-!+].{2,3}$">
39 </div>
40 <div class="form-group">
41 <input type="password" class="form-control" name="password" placeholder="Password (min. 6 characters)" pattern="[6, ]">
42 </div>
43 <div class="form-group">
44 <input type="submit" value="Login" class="btn btn-primary">
```

Figure 5.1: Screen shot of Login Code

5.3 Implementation of Interactions

This project having different layers to implement the website. All layer has significant mechanism and in this website. Interaction is done to make the website dynamic and attractive to user. It's very necessary to make an website interactive. We included some unique feature to interact our system. The design of our website is user friendly.

- **View Layer:** This is the interface for the user to show the screen.
- **Database Layer:** All the data have been stored here.
- **Website Layer:** HTML, CSS and JavaScript is done here.

5.4 Testing Implementation

The purpose of testing implementation is quality assurance of product quality. It's to gain perception and confidence that product quality is meeting its goal. So, to meet the quality of a product, it's needs to test the project again and again using different testing techniques to identify problems and solve them. The main goal of project is meet the goal

5.5 Test Results and Reports

Test report shows testing results, which is a chance to evaluate testing result. It represents the comparison with test results and objectives. In development or implementation process of application different types of error may occur such as code error, network failure error etc. This type of error is called bugs. By debugging and fixing code error bugs are removed.

In our project we faced many bugs. Some of them are given here:

“This site can't be reached”. This error occurs while database failed to connect at the time of fetching the data from the Xampp databases. Because of network failure this happens. To overcome this problem, we need to connect database and fix the error.

Finally, the project responds correctly to all kinds of process, perform smoothly and the result is sufficiently usable

CHAPTER 6

CONCLUSION AND FUTURE SCOPES

6.1 Discussion and Conclusion

Our point was to decrease the issues and troubles individuals face so as to planting and make our condition appropriate for living creatures. Likewise, shield nature from calamity. Each sort of client can visit the site. In any case, just administrator include, update, and erase information. This site will deal with the entire planting framework for individuals by which clients can plant effectively. This task incorporates all highlights for gardening.

There is a database that is kept up by the Admin where all data is put away. At the point when a client needs to utilize this framework, the person can utilize it yet to purchase item clients need to sign in with an email and secret phrase. After a fruitful login, the person in question can purchase an item a. Our framework has decreased the sufferings and exercise in futility for planting. It is anything but difficult to utilize and it is time and exertion devouring.

This framework will give all data about planting trees with any pressure.

6.2 Goal

Our principal goal is to cause a site where purchasers can purchase any sort of tree and other related things. To develop a conventional system and extraordinary association among purchasers and dealers is one of the huge goals of our site.

6.3 Limitations

- Guest user's data will not be saved.
- All Plants are not available here.
- Guest users can't buy product.
- Nursery owners can't add in database.
- The payment system now supports only bkaash, Rocket and Nogot.

6.4 Scope for Future Development

Though the system was developed as fine but the future work will include some more major changes.

- Our point is to build up the present application progressed so individuals don't confront any issue respect cultivating.
- Overcome every one of the restrictions.
- We will make it increasingly powerful.
- A website can be produced for clients.
- Real-time communication media like chat, notification will be introduced.

APPENDICIES

Appendix A

The appendix is provided to give a reflection of project. However, this was a challenging project and also enjoyable to us. During development of this project we learned many things. We were developing along with refining one another's ideas. Our group meetings were very productive. We planned to make a project to help people gardening and reduce their sufferings and from our thought we make the "Let's Make our city Greener" web-based project. With the help of our honorable supervisor Ahmed Al Marouf sir we completed the project. We hope the experiences during the project we gathered will help us throughout our life.

The following table A1 represents the real life user experiences.

Table A1- Real Life User Experiences

Name	No. of user	Rating	Feedback
ForestBD	10	7.6	<ol style="list-style-type: none">1. This type of application should be introduced before.2. User friendly.3. Convenient website.4. Exceptional idea & effective.5. Site could be better.

Appendix B: Related Diagrams

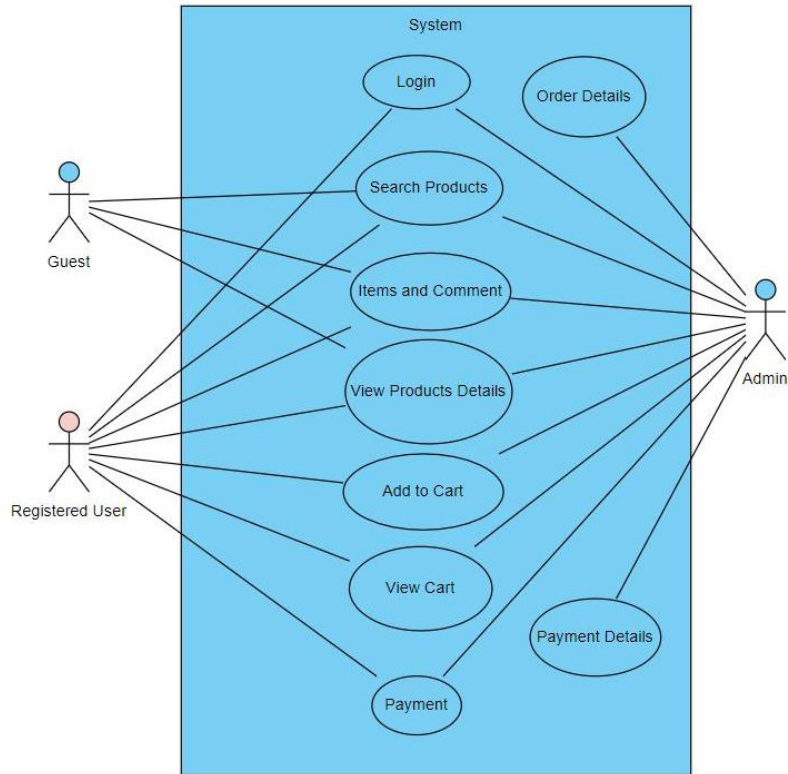


Figure 3.4.1: Use Case Model.

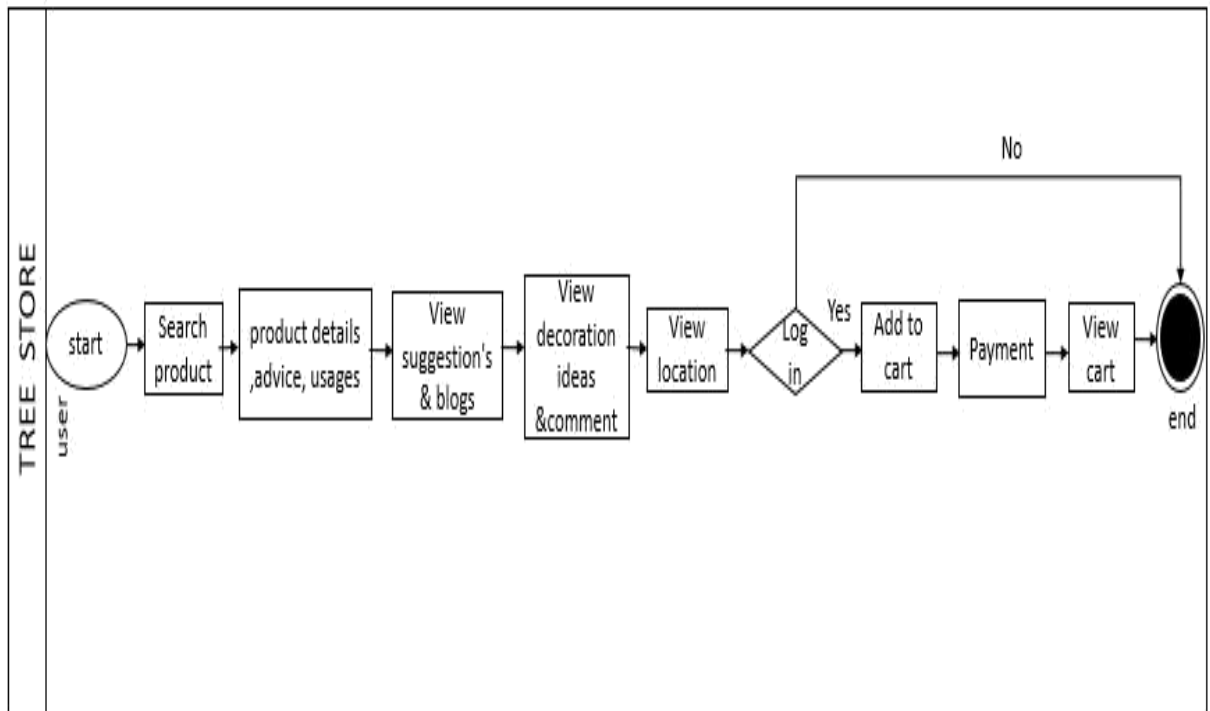


Figure 3.4.2: Business Process Model.

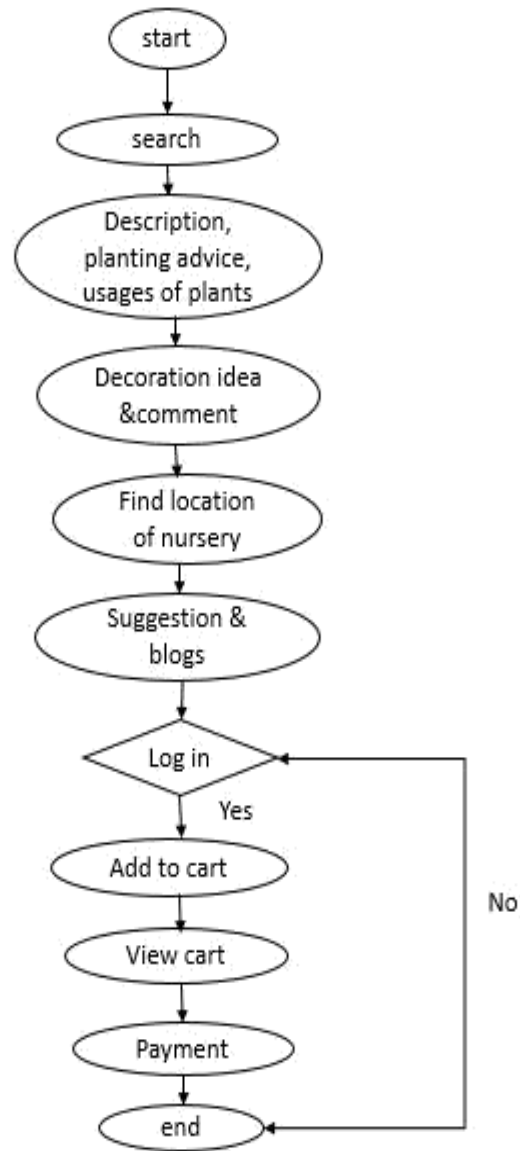


Figure 3.5.1: Activity Diagram.

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