Design and Development of a Web Base Application for Tree Nursery

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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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JUNE 2021

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APPROVAL

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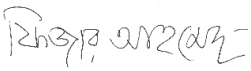

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We hereby declare that, this thesis base project has been done by us under thesupervision of **Mr. Abdus Sattar, Assistant Professor of CSE Department,** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree ordiploma.

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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 **Mr. Abdus Sattar, Assistant Professor of CSE Department, Daffodil International University.** Deep Knowledge & keen interest of our supervisor in the field of "**Design and Development of a Web Base Application for Tree Nursery"** tocarry out this project. Our project is based on" Web Development" His 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 Prof. Dr. Syed Akhter Hossain 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 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

Global warming and climate change refer to the increase in global average temperature. It is believed that natural events and human activities are the main causes of such a rise in global mean temperatures. Perform various activities that gradually increase the temperature. Global warming is rapidly melting our glaciers, which is extremely harmful to the planet and humans. We are talking about global warming but we are not getting any solution. Global warming has become a serious problem and requires special attention. This is not for one reason, but for many reasons, including natural and man-made. As the number of people increases, the number of lands decreases. We are not able to plant enough trees due to lack of land. The number of lands towards the city is very low, we can organize tree planting on the roof of every house. People don't know where to get good seedlings. Our website allows people to collect seedlings in a safe place. Overall, we understand that this method does not solve the problem of global warming, but it may mean that our population and society will undergo major changes.

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CHAPTER 1
INTRODUCTION

1.0 Introduction

In the present computerized world, almost everybody is associated here and there with the World Wide Web to fulfill their amusement, training, examination, and buyer needs. The prevalence of the Internet has provoked organizations, all things considered, to have an online presence as a website. If your business doesn't have a website at this point, your business presumably isn't performing to its fullest of capacities. Having a website can give different benefits to your business that you probably won't have thought about beforehand. Global warming is become a hot topic day by day. We are destroying the forest without any hindrance and the most concern part is that we are not planting enough trees to sustain our ecosystem. This project is focusing on the connection between seller and buyer. Nurseries will be bigger and richer through this project.

1.1 Motivation

Our main motivation for this project to develop a platform where people can buy Seedlings easily. Nursery owners can easily open an account on this website after that they can sell seedlings very easily. We need to utilize our innovation and apply it to decrease an unnatural weather change on this planet.

- Aware of people about the possible threat of globalwarming.
- To encourage people for plantingtrees.
- Sapling planting activities are not happening in our country. This thinking thought us that if we can make a suitable platform that will give information and accessibility of various plants to a wide range ofpeople.
- The people of our country still do not know where to buy seedlings according tothe rightrules.

1.2 Rationale of the Study

Since many people want to buy plants and are directly interested in nurseries and plants, sometimes people do not know specific information about certain plant products, and the seller has no technical background. In previous research, they could not come up with a platform for

all nursery owners. In our project we will be able to bring all the nursery owners on one platform through vendors. Suppliers are the parts of the supply chain that provide goods and services to companies or consumers. Nursery owners can sell their goods easily.

1.3 Objectives

- Provide seedling information aboutnursery.
- Creating a relationship between customers and buyers via thevendor.
- To make people aware of globalwarming.
- Customers will compare plant costs with different shopkeepers at sametime.

1.4 ExpectedOutcome

- People can easily buyseedling.
- Nursery owners will be able to make their business bigger and profit veryquickly.
- User will be able to know various information aboutseedling.
- More potential customer will becreated.
- Plant's lovers will get a reliable and secure place to buyplants.
- Our main goal is to give the plant enthusiasts a reliable and safe place to buyplants.

This proposal is an excellent solution for planting trees. Our project will inspire people to plant trees and they will learn more about seedlings.

1.5 ReportLayout

Chapter 2, Here, we discussed the background of the project, added information about the collaboration, project opportunities and challenges, and compared ourselves with many other applicant systems.

Chapter 3, Enter the project's absorptions. We define the various diagrams and design requirements. We also discuss the functions.

Chapter 4, we have the actual results of the project experiment and the designated homepage of the project.

Chapter 5, we implement and test our projects and have discussions.

Chapter 6, the conclusion and the possibility of further development of the project were discussed.

CHAPTER 2
BACKGROUND

2.0 Introduction

Living in the world of technology, a website is important for any kind of business purpose. It can help any business to grow. It has a vast reach than any other form of promotion. It can be a key figure to your company's online presence. It can promote your business around the web on social networking sites & forums. In this chapter, we will provide the idea of our web-based project.

2.1 RelatedWorks

2.1.1 Brikkhobazar.com

This website provides online seeds, pots, plants & many more utilities. There are many options similar to our website like add product, search product.

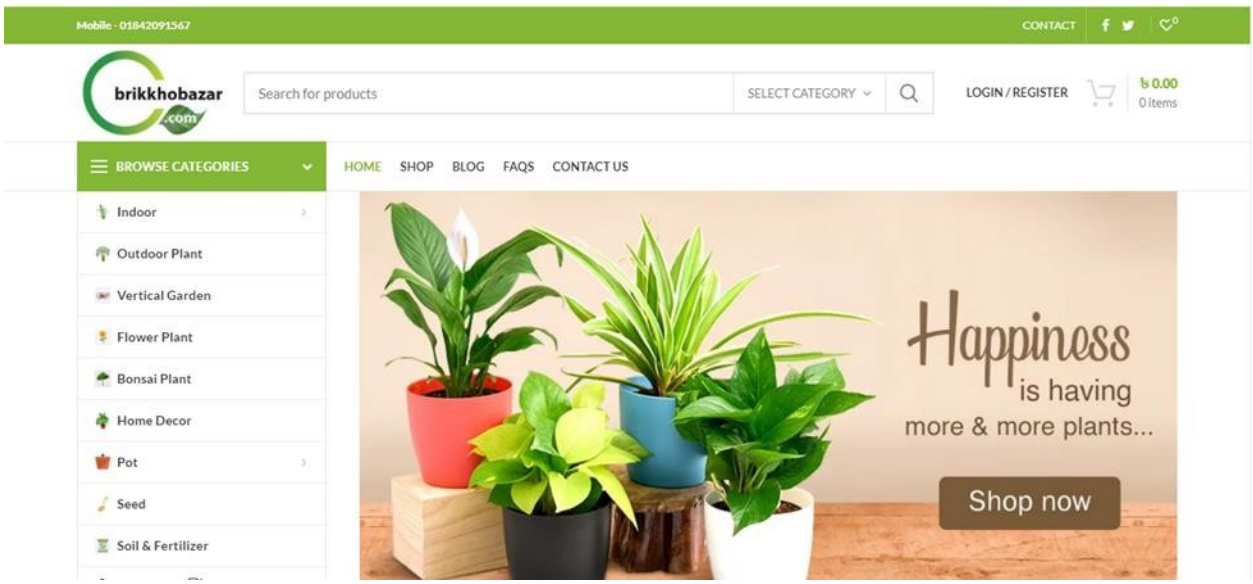

Figure 2.1.1: Brikkhobazar website

2.1.2 Garden.com.bd

This website provides different kinds of tools, seeds & accessories for gardening. This website has a new arrival product showing similar to our recently added product.

Figure 2.1.2: Garden Website

2.2 Challenges

For every development project, there are some challenges have to face. In our web-based developing project, we face some difficulties, there is no exception. We have to meet the requirements of our users. We have to keep in mind that, what our user wants from our website. We have to work with content uniqueness. We have to work with a proper link binding strategy & also proper keyword targeting. We have to face some security issues on our website. These are the challenges we have to face from our project.

CHAPTER 3
REQUIREMENT SPECIFICATION

3.0 Requirement Collection andAnalysis

This web-based project for all sorts of users. For fluent work, this web-based project requires some basic configuration.

Hardware configuration required:

- Computer

Software configuration required:

- Language: HTML, CSS, Java script, PHP
- Database: SQL, phpMyAdmin
- Web Browser: Chrome, Mozilla, Microsoft Edgeetc.
- OS: Windows

3.1 Features:

- Easy to useinterface
- Well Organized search for allusers
- Minimalistic UI
- Different types of categories.
- Real time addedproduct
- Dashboard

3.2 Use Case modeling And Description

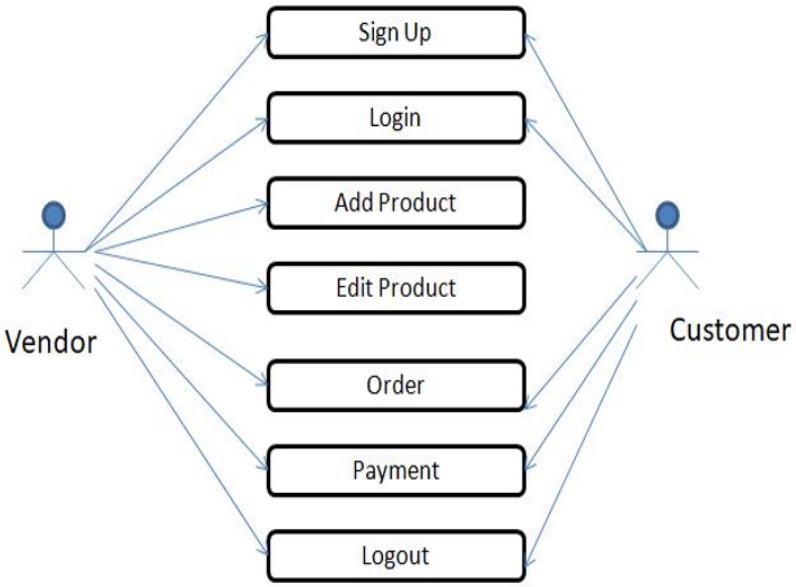

Figure 3.2 Use Case Model

3.3 Entity Relationship Diagram

This is the Er diagram of our project

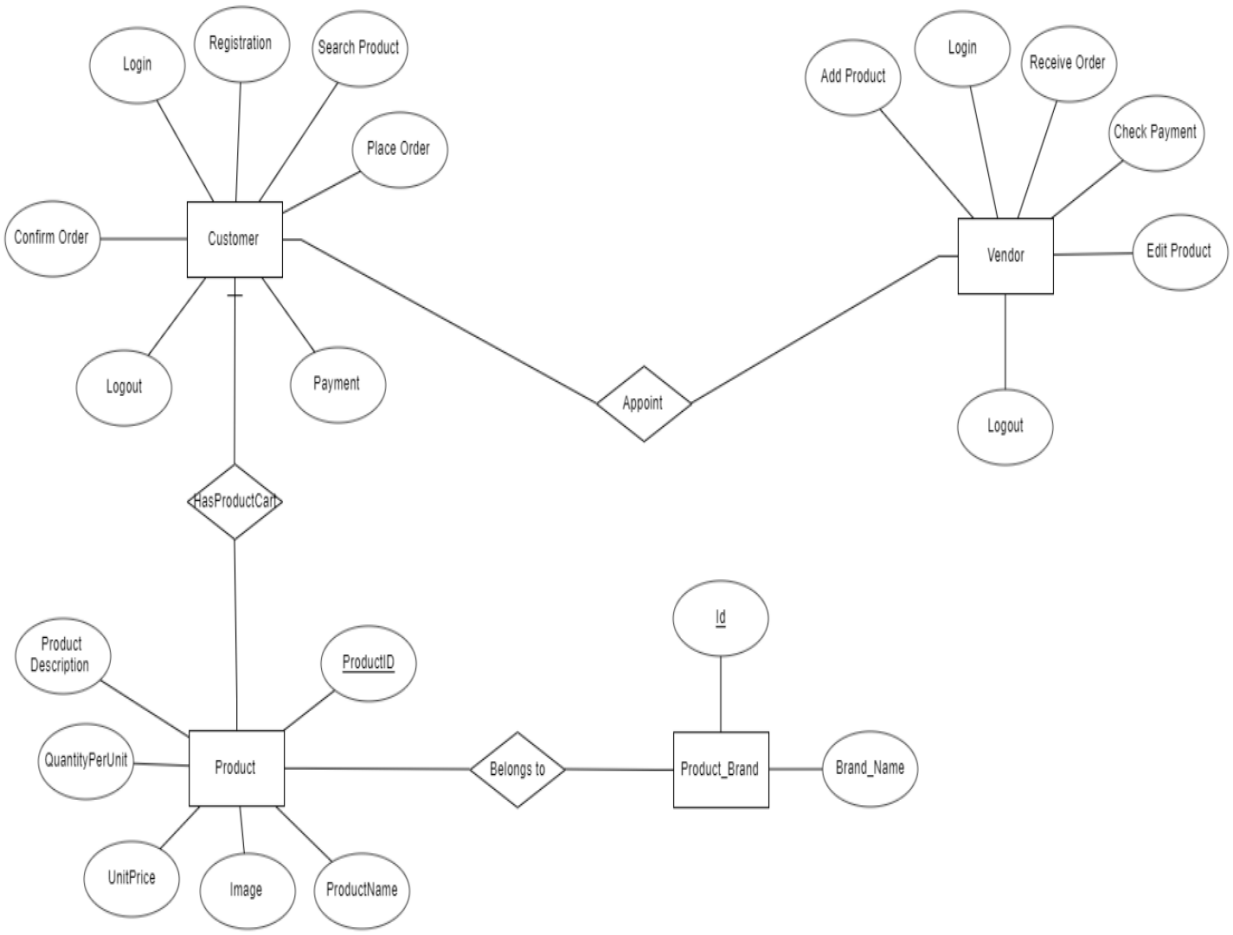

Figure 3.3:ER Diagram

3.4 Process Steps

Here are the process steps for our project

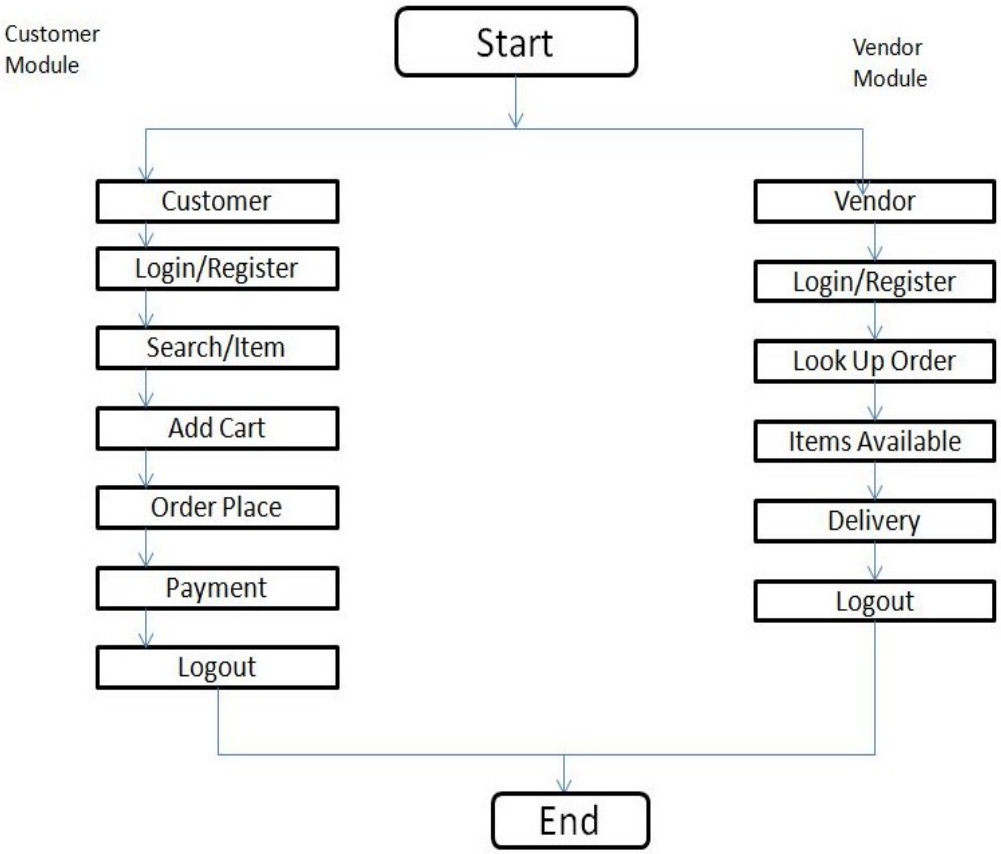

Figure 3.4: Process Steps

There are two modules in our project:

3.5Adminmodule:

- Admin can register & log in himself in thewebsite.
- He can see customer order.
- He can send order confirmationmessage.
- He can update the information of theproduct.

3.6Customermodule:

- Customer can register & log in himself in thewebsite
- He can select any product to purchase the item by comparing prices with different vendor.
- Product item details will be added to thecard.
- He can payment through credit/debit card or cash ondelivery.
- He can also give the feedback about theproduct.

3.7ActivityDiagram

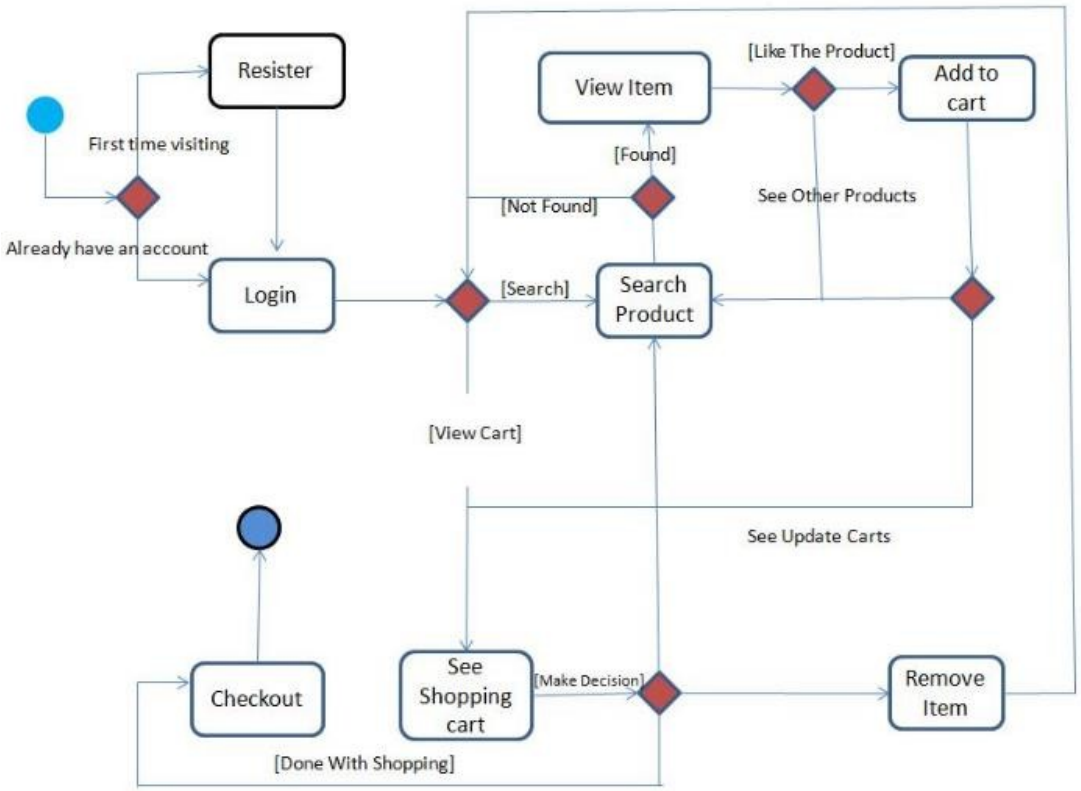

Figure 3.7: Activity diagram

3.8Back EndDesign

For our project, we use phpMyAdmin to store data for our website.

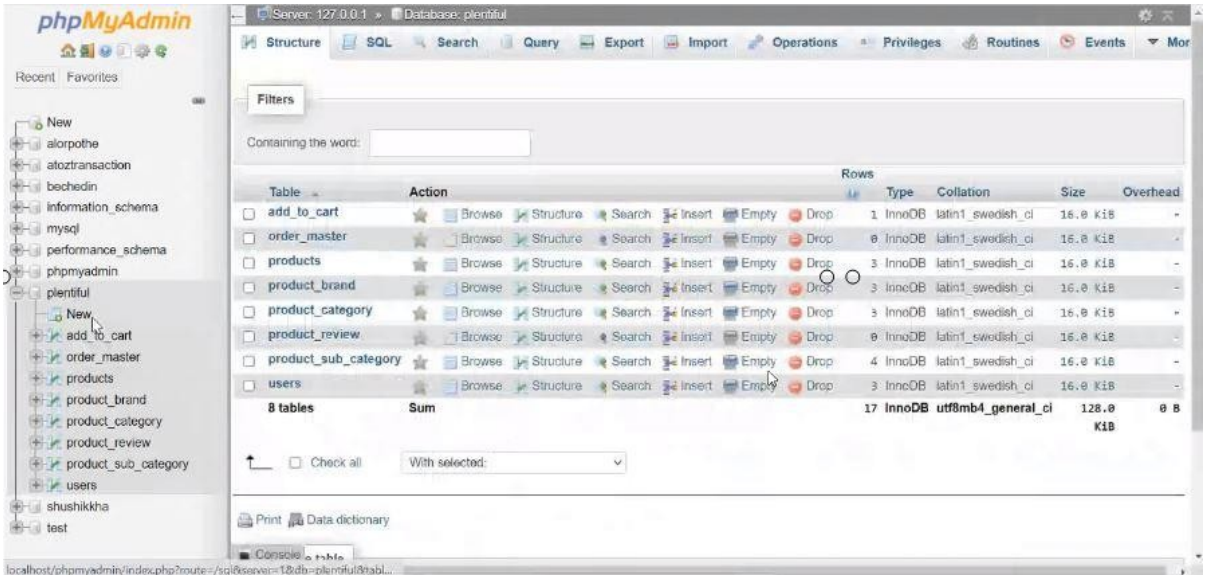

Figure 3.8: PhpMyAdmin panel

CHAPTER 4

DESIGN SPECIFICATION

4.0 : Introduction

Design is an important part of a web-based project. It generally show-case the whole project. For our web-based project, we design a simple minimalistic website for the user. So that, users can easily navigate the website without any kind of hassle. We intend to provide a good experience to our users.

4.1 : Front Page or UIdesign:

4.1.1 : Home Page

Our starting page is presenting menu or options of this application. There are three options which will go to three different categories.

Here is the UI design of our home page.

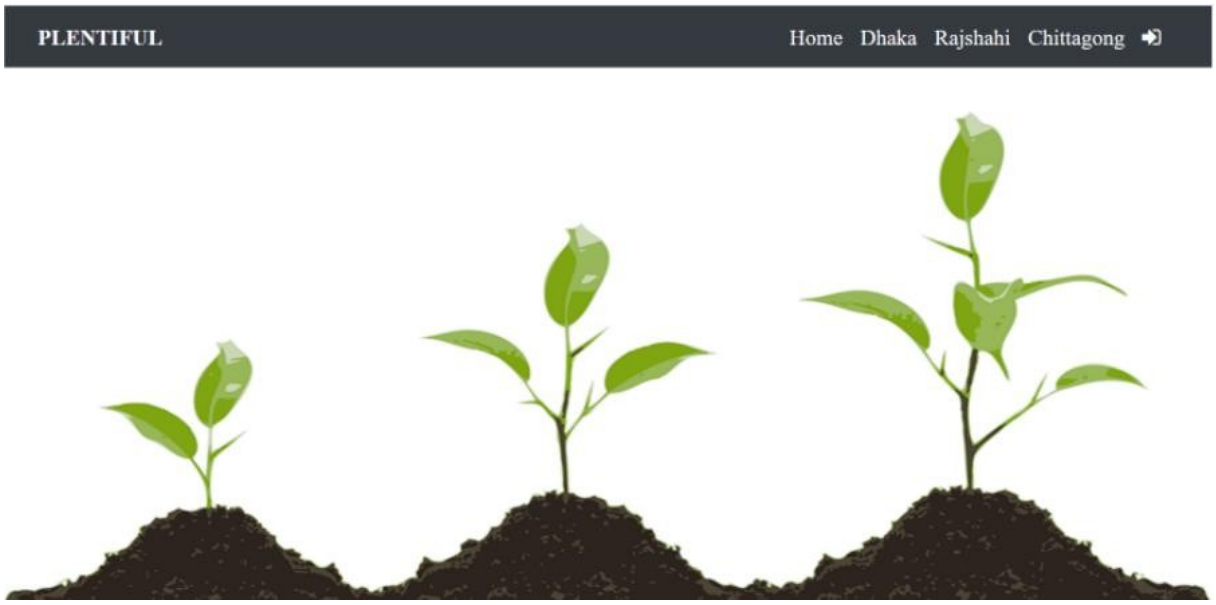

Figure 4.1.1: Home Page

4.1.2 : Feature Product

Here is the UI design of product section.

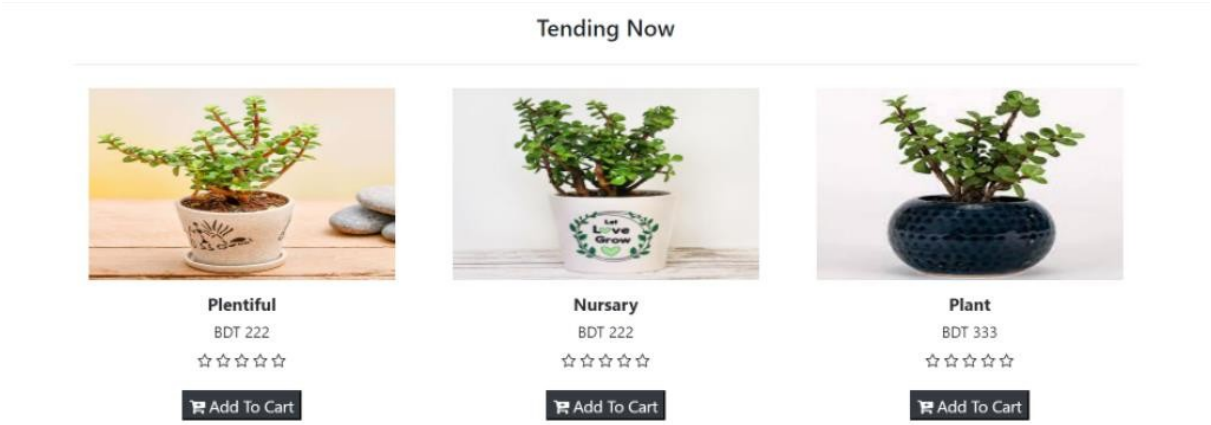

Figure 4.1.2: Feature Product

4.1.3 : ProductSection

Here is the UI design of Product Section

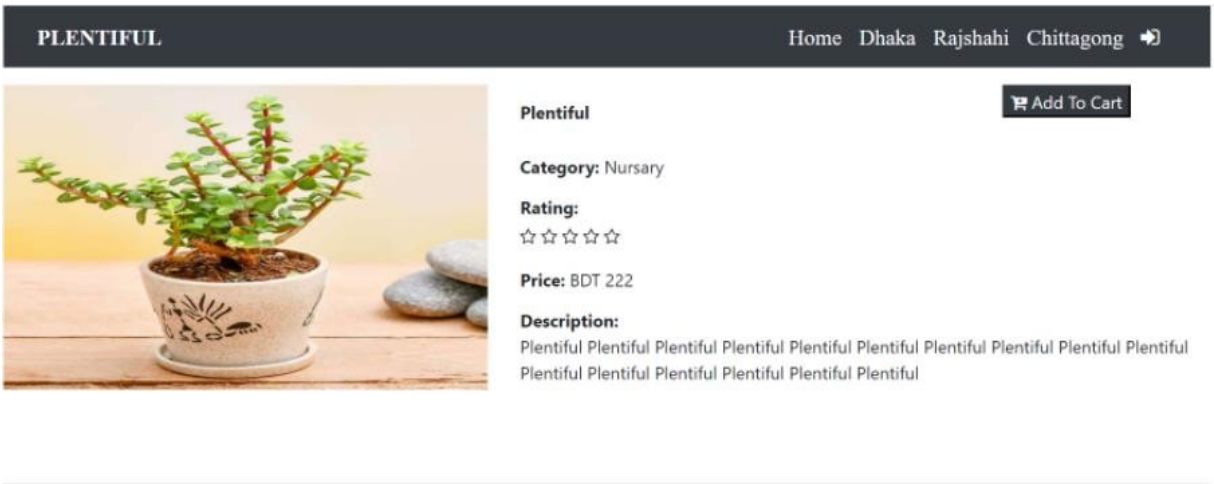

Figure 4.1.3: Product Section

4.1.4 Cart

Here is the UI design of Add to Cart

Figure 4.1.4: Cart

4.1.5 OrderInformation

Here is the UI design of order information details

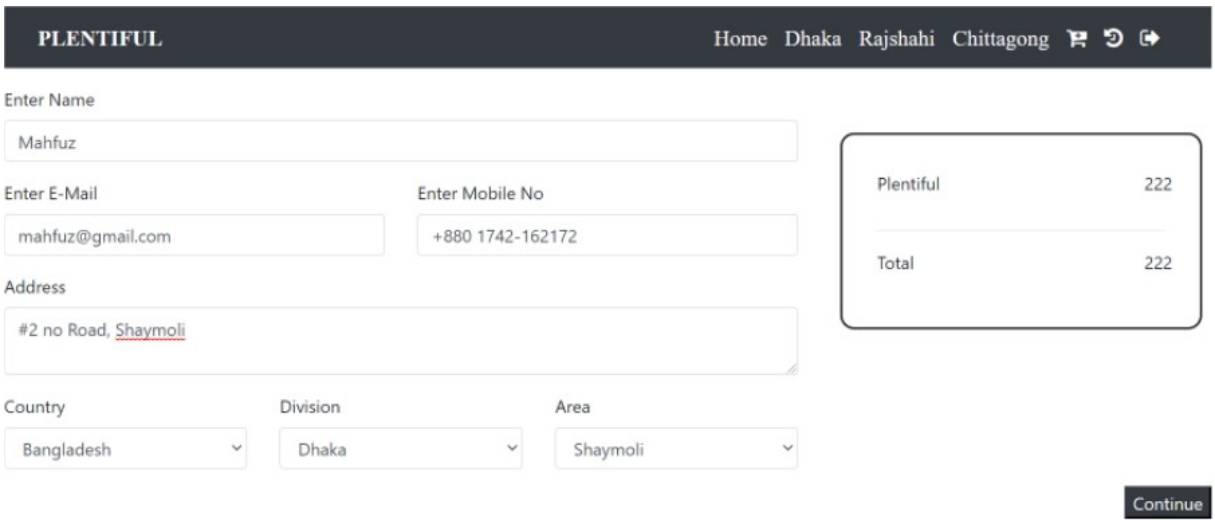

Figure 4.1.5: Order Information

4.1.6 OrderConfirm

Here is the UI design of order confirmation

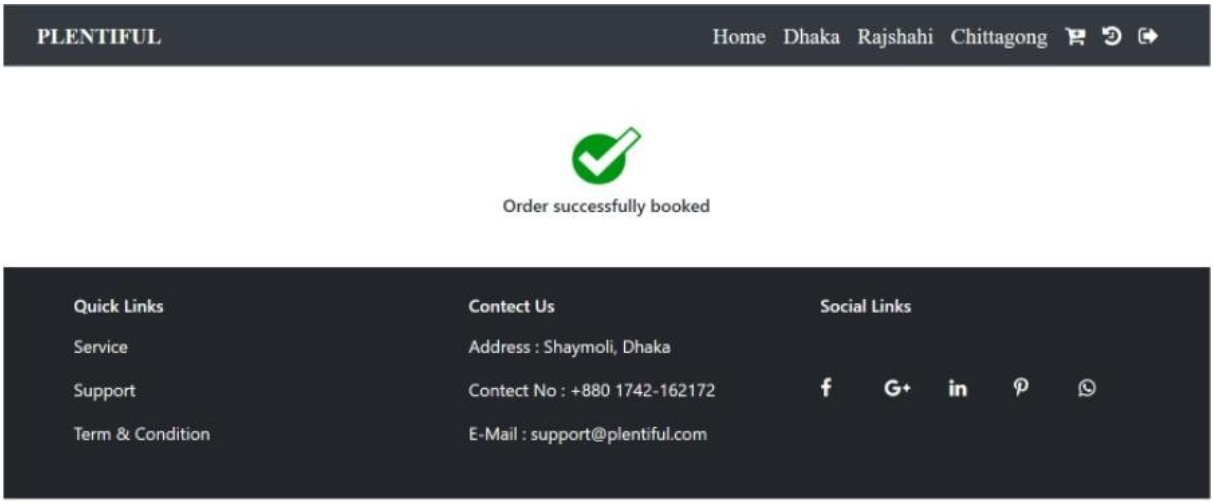

Figure 4.1.6: Order Confirm

4.1.7 Dashboard

Here is the UI design of Vendor Dashboard

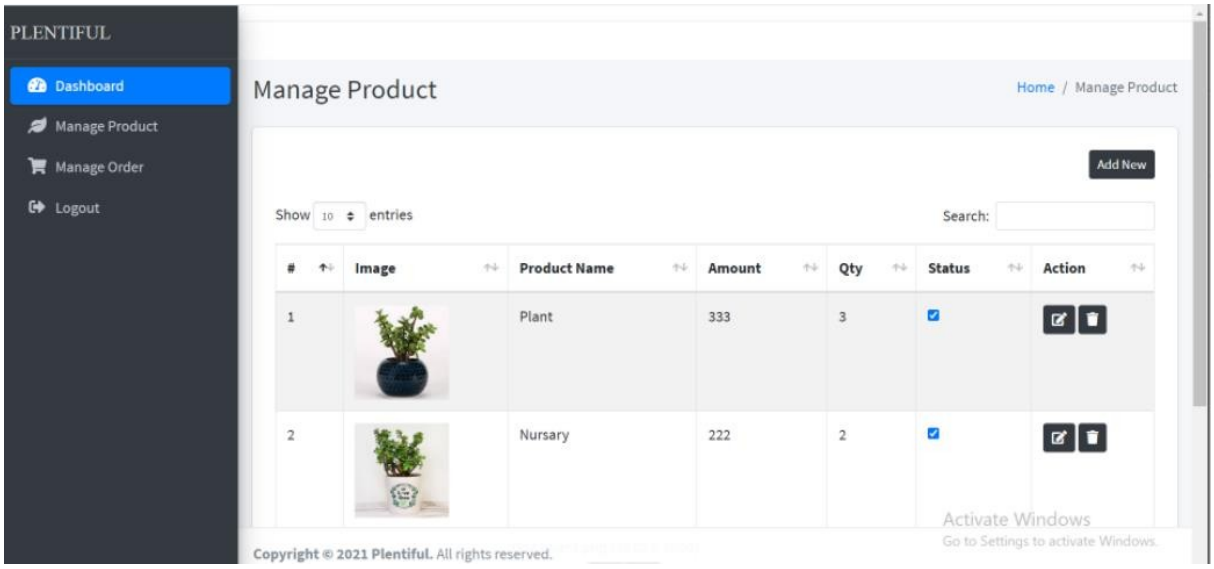

Figure 4.1.7: Dashboard

CHAPTER 5
IMPLEMENTATION AND TESTING

5.0 Testing Implementation

Here, we can test the admin & user login from our website. If the admin or user puts valid input, then it will be passed. If the admin or user puts invalid input, then it will be failed.

Table Name: Testing Result

Input	Function	Action	Result	Status	Outcome
Admin	Login	Correct user id & pass	True	Success	passed
User	Login	Correct user id & pass	True	Success	passed

Input	Function	Action	Result	Status	Outcome
Admin	Login	Incorrect user id & pass	False	Not Success	Failed
User	Login	Incorrect user id & pass	False	Not Success	Failed

Figure 5.0: Testing Table

CHAPTER 6
CONCLUSION AND FUTURE SCOPE

6.0 Discussion andConclusion

Our work is finally completed. It is time to create an "ONLINE PLANT SELLING PLATFORM" at our university. Our project is for those who want to collect saplings from trusted places. The testing of some pieces of this was to make an easy to utilize a framework that restricts the work for the customer.

6.1 Future work and FurtherDevelopment:

We plan to add more features to this application. In the future, the system will provide many possibilities to make it more user-friendly. First, we will add to the map. This allows users to easily find the location of the nursery near them. In the future, we will cooperate with the government and we will present foreign flower and sapling segments.

REFERENCES

[1]. Essay on global warming, https://www.toppr.com/guides/essays/essay-on-global-warming, last accessed on 1-05-2021 at 5:24 PM

[2]. Design and Implementation of Web base application for plant Nursery, https://ijcrt.org/papers/IJCRT2003272.pdf, last accessed on 1-05-2021 at 5:40 PM

[3]. Tree nursery and seed procurement characteristics influence on seedling quality in Oromia,Ethiopia,https://www.tandfonline.com/doi/full/10.1080/14728028.2016.1221365, last accessed on 1-05-2021 at 5:43 PM

[4]. Nursery, https://www.britannica.com/topic/nursery, last accessed on 1-05-2021 at 6:02 PM

[5]. Plant nursery, https://en.wikipedia.org/wiki/Plant_nursery, last accessed on 1-05-2021 at 6:18 PM

[6]. Brikkhobazar.com, https://brikkhobazar.com, last accessed on 1-05-2021 at 6:23PM

[7]. Garden.com.bd, https://www.garden.com.bd, last accessed on 1-05-2021 at 6:34PM

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