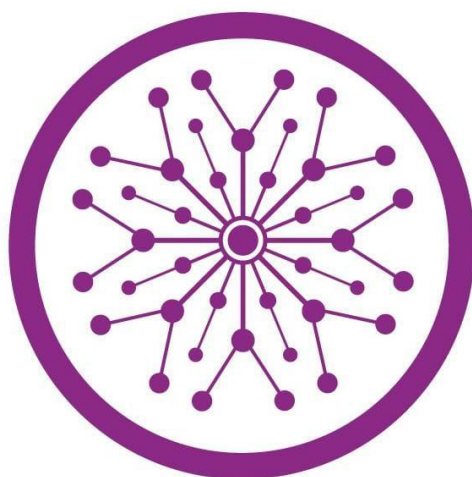


Organic Green

Final Year Project

Session 2019-2021

A project submitted in partial fulfillment of the degree of
Master in Information Technology



Department of Information Technology
Faculty of Computer Science & Information Technology
The Superior University Lahore
Fall 2021

| | | | | |
|---------------------------------|---|---------------------|------------------------------|-------------------|
| Type (Nature of project) | <input type="checkbox"/> Development <input type="checkbox"/> Research <input type="checkbox"/> R&D | | | |
| Area of specialization | | | | |
| Project ID | FYP-MCSM-F20-006 | | | |
| Project Group Members | | | | |
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*The candidates confirm that the work submitted is their own and appropriate credit has been given where reference has been made to work of others

Plagiarism Free Certificate

This is to certify that, I **Laraib Naseer** S/D of **Naseer Ahmad** group leader of FYP under registration no **Mitm-f19-071** at Information Technology Department, The Superior University, Lahore. I declare that my FYP proposal is checked by my supervisor and the similarity index is 12% that is less than 20%, an acceptable limit by HEC. Report is attached herewith as Appendix D.

Date: _____ Name of Group Leader: **Laraib Naseer** Signature: _____

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Designation: Lecturer

Signature: _____

HOD: Dr. Asad Ali Naqvi

Signature: _____

Organic Green

Change Record

| Author(s) | Version | Date | Notes | Supervisor's Signature |
|---------------|---------|------------|---|------------------------|
| Laraib naseer | 1.0 | 11-10-2020 | Original Draft | |
| Laraib naseer | 1.2 | 20-10-2020 | Changes Based on Feedback from Supervisor | |
| Laraib naseer | 1.3 | 8-11-2020 | Changes Based on Feedback From Faculty | |
| Laraib naseer | 1.4 | 26-11-2020 | Added Project Plan | |
| Laraib naseer | 1.5 | 29-12-2020 | Changes Based on Feedback from Supervisor | |

APPROVAL

PROJECT SUPERVISOR

Comments: _____

Name: _____

Date: _____

Signature: _____

PROJECT MANAGER

Comments: _____

Date: _____

Signature: _____

HEAD OF THE DEPARTMENT

Comments: _____

Date: _____

Signature: _____

Dedication

I dedicate this project to Allah Almighty my creator, my strong pillar, my source of inspiration, wisdom, knowledge and understanding. He has been the source of my strength throughout this program and on His wings only have I soared. I also dedicate this work to my teacher who has encouraged me all the way and whose encouragement has made sure that I give it all it takes to finish that which I have started.

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First of All, I would like to thank Sir Javed Iqbal for the valuable time. He spends for me during the year, advising and correcting my thesis. It was a nice experience to do a study with my Staff. Secondly, also I want to thank all nice members of IT Department who helped me in several issues. Also, great thanks go to my Colleague for his support and patience, to my parents, for their support and encouragement. Finally, I would like to thank all my friends who advice and encourage me during this study, so I thank all CSIT Students in Superior. I also would like to acknowledge Superior University for funding my degree.

Executive Summary

We create a website for monitoring the vegetables through internet. The main aim of this website is to reduce the manual work of the people. In this website all details and records are maintained database software. Vegetables names and vegetable prices are displayed in the website. Whenever we need data, we can easily access the database to retrieve the data that are already stored at anywhere in the world. The prices will be updated periodically day by day. The records are frequently updated by the admin of the website. It provides a simple user interface to the users. The working method of users are designed by very simple. The prices will be updated periodically. The updating of prices is very easy in this website. Using of this website user can view the vegetable prices at anywhere. The website needs one-time updates per day. The simple clicking options improve the interface of the web. It shows some categories of the vegetables to the users. User can view the categories of the vegetables like fresh vegetables, trash vegetables, and weekly schedule. Moreover we can add the categories of chopped vegetables, peeled off, puree, different type of sauces according to the user need and requirements as if we expand our business .The price of the vegetables is periodically updated by the admin or head of local market members.

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Chapter 1

Introduction

Chapter 1:

Introduction

We create a website for monitoring the vegetables through internet. The main aim of this website is to reduce the manual work of the people. In this website all details and records are maintained database software. Vegetables names and vegetable prices are displayed in the website. Whenever we need data, we can easily access the database to retrieve the data that are already stored at anywhere in the world. The prices will be updated periodically day by day. The records are frequently updated by the admin of the website. It provides simple user interface to the users. The working method of users are designed by very simple. The retrieval of vegetable prices is very fast in this website and it also easy to the users. It reduces the manual work of the local market members. The users get quick update about the prices of vegetables in the market. The prices will be updated periodically. The updating of prices is very easy in this website. Using of this website user can view the vegetable prices at anywhere. The website needs one-time updates per day. The simple clicking options improve the interface of the web.

1.1. Background

Our Website provide capabilities for registering all user to buy fresh vegetables anytime. Our Web should also provide vegetables salad and chopped crush vegetables. This web will the customer to get their desired vegetable within the minimum time duration. In this web a list of fresh vegetables will update on daily basis. The customer can order the product by simply install our web.

1.2. Motivations and Challenges

2. Before there is no website is available for monitoring the price of vegetables in the local market.
3. The price of the vegetables is telecasted on a television but it only on a particular time only. Also, the prices are printed in the daily newspaper but that is not showing the exact price of vegetables in a required time.
4. The existing system fully based on manual work.
5. All the details stored and maintained by a paper, board etc.
6. This system takes lot of time for updating the information. All the data handled by manual so, easily data are loss.

7. Less security for data.
8. User can not view prices at anywhere and anytime by using the existing systems.
9. Grocery shopping is a routine task. It is due to the following challenges, which also represent the growth opportunities in the sector:

Challenge 1: Storage & Delivery Cost

Challenge 2: Low Profit Margins

Challenge 3: Inefficient Delivery

9.1. Goals and Objectives

To provide easy learning system.

To reduce learning hassle and get the service comfortably.

To remove communication system between customer and user.

General efficiency:

1. To increase efficiency and services to the customers through better website of technology in daily operation.
2. Buy Online, Pick-up in Store (Click and Collect) Shopping
3. To be able to stand out from competitors in the ecommerce sites.

Specific objectives:

1. To enable customers to see all the products without any authentication.

9.2. Literature Review/Existing Solutions

Food markets play an important role in economic development. These markets can contribute significantly to the growth of income. The economic policy of the country's environment greatly contributes to the proper operation of food systems and providing high-quality products to the population. Reforms based on such policies will contribute to sustainable food security in the long term.

According to modern research, provision of food is directly related to productivity, especially in developing countries.

The increase in food prices is not only a scientific, but also a political point of view. The price change in the international food market is considered as the main challenge for food provision. Researchers have identified several factors that should be taken into account in terms of food provision:

- 1) Develop a relevant policy that will oblige suppliers to provide high quality products.
 - 2) Ensure the proper functioning of food systems.
 - 3) Carry out a reform that will support sustainable food system in the long term
(International Panel of Experts on Sustainable Food Systems, 2015)
10. Food markets play an important role in economic development. These
 11. markets can contribute significantly to the growth of income
 12. Food markets play an important role in economic development. These
 13. markets can contribute significantly to the growth of income
 14. Food markets play an important role in economic development. These
 15. markets can contribute significantly to the growth of income
 16. Food markets play an important role in economic development. These
 17. markets can contribute significantly to the growth of income
 18. Food markets play an important role in economic development. These
 19. markets can contribute significantly to the growth of income
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 21. markets can contribute significantly to the growth of income
 22. Food markets play an important role in economic development. These
 23. markets can contribute significantly to the growth of income
 24. Food markets play an important role in economic development. These
 25. markets can contribute significantly to the growth of income
 26. Food markets play an important role in economic development. These
 27. markets can contribute significantly to the growth of income
 28. Food markets play an important role in economic development. These
 29. markets can contribute significantly to the growth of income

29.1. Gap Analysis

Today, the Internet is the most powerful technology in the world. Manual system is not quick. Females have a lot of problem to go to the market alone. It is a time consuming to buy vegetables for market. The internet has played an important role in our daily lives and, to be honest, it brings immeasurable benefits to the US. Hence, we tend to create a mechanical unit to watch the cost of the vegetables that that unit has out there within the

market with the help of web. These days, the wide variety of people want to get something online. Hence, this website is very helpful to them. Already working different Vegetables web are available in the market, but prices will not be updated properly day by day. Using web customers facing many problems. They provide vegetables material with best quality, but they did not reasonable price and fresh vegetables. Organic green provides healthy fresh vegetables. In this website all details and records are maintained database software. Vegetables names and vegetable prices are displayed in the website. Whenever we need data, we can easily access the database to retrieve the data that are already stored at anywhere in the world. The prices will be updated periodically day by day.

29.2. Proposed Solution

1.1 1.7. Project Plan

Table 1: project plan

| | | |
|-------------|---------------------|------------|
| Phase One | Planning | 1-10-2020 |
| Phase Two | Designing phase | 17-10-2020 |
| Phase Three | Final Documentation | 1-11-2020 |

Table 2: Activity

| ACTIVITY | IMPLEMENTATION TIME | | | RESPONSIBILITY |
|--|----------------------|------------|------------|----------------------|
| 1. Design and implement training program for project management. | Month 1 1-10-2020 | Month 2 | Month 3 | Program Manager (PM) |
| 1.1. Conduct needs assessment | | 14-10-2020 | | consultant |
| 1.2. Design training modules | | | 17-10-2020 | consultant |
| 1.3. Conduct training | | | 27-10-2020 | consultant |

Table 3: Activity

1.2

| 1.3 Phases | 1.4 Budget Description of Work | 1.5 Start and End Dates |
|-------------------------|---------------------------------------|----------------------------------|
| 1.6 Phase One | 1.7 Planning | 1.8 1-10-2020 |
| 1.9 Phase Two | 1.10 Design | 1.11 17-10-2020 |
| 1.12 Phase Three | 1.13 Working | 1.14 1-11-2020 |
| 1.15 All | 1.16 Total | 1.17 PRs 30,000 to 40,000 |

1.18**1.19**

1.20 ➤ Our Quality plane will be measured by the following parameters:

1.21 • User satisfaction regarding the service

1.22 • Web Response Time

1.23 • User Service Time

1.24 • Security of personal Data

1.25 Work Breakdown Structure

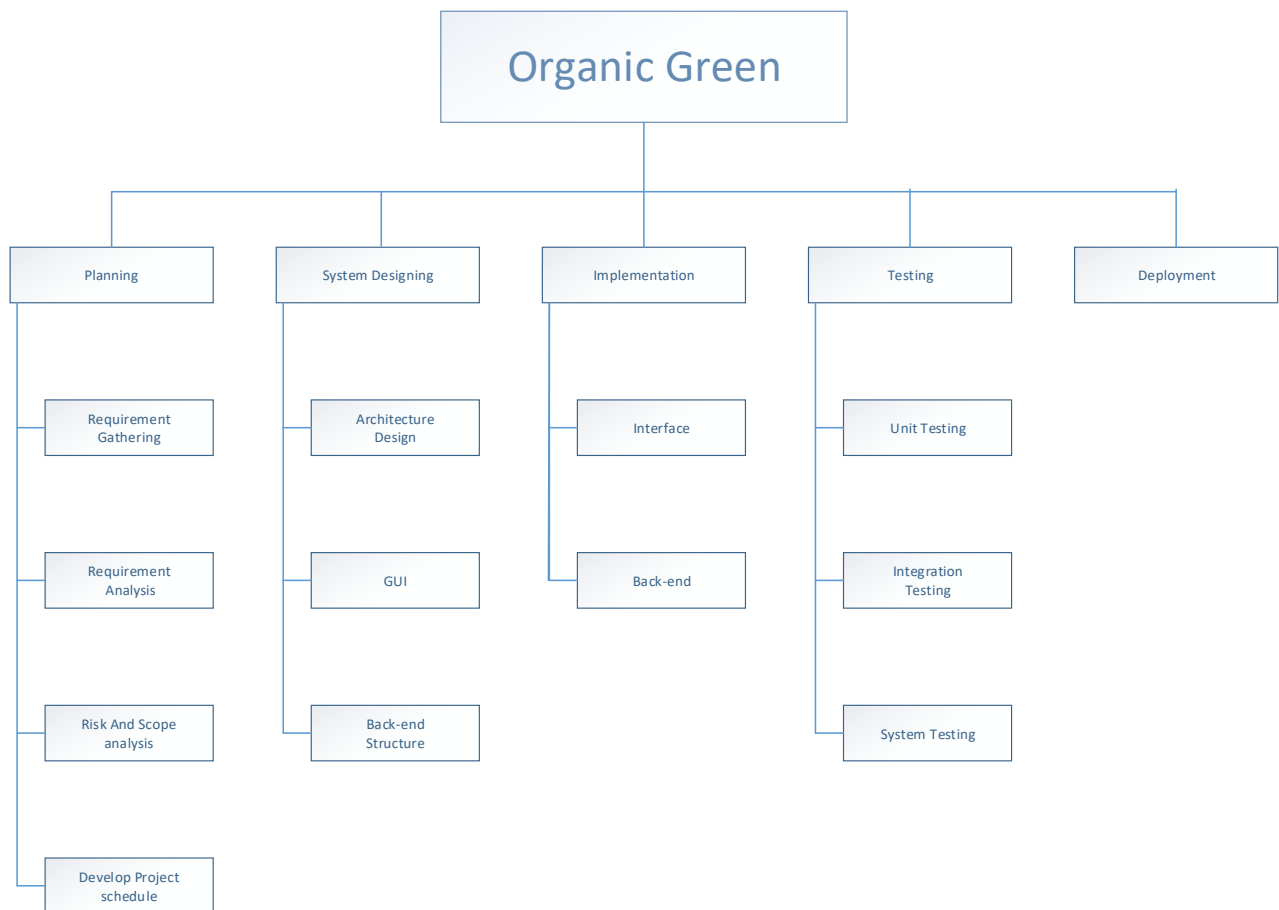


Figure 1.1

Level 1- Overall project Definition

- Highest level entry corresponds to the overall project deliverables e.g. Software Deliverable Project.

Level 2- Identify and define all deliverables

- Create User Interface.

Level 3- Decompose deliverables into High-level activities

- What needs to be done to complete the deliverables?

Level 4- Break down activities into more granular with Sub-Activities.

- Break Down to measurable level of detail.

Scope-Out:

- User Registration
- User Login
- Home Screen
- Vegetables Price
- Payment Option
- Feedback Screen
- About Us

2 Roles & Responsibility Matrix:

The purpose of roles & responsibility matrix is to identify who will do what.

Table 4:

| WBS # | WBS Deliverable | Activity # | Activity to Complete the Deliverable | Duration (# of Days) | Responsible Team Member(s) & Role(s) |
|--------------|----------------------------------|-------------------|---|-----------------------------|---|
| 1 | Project Management | | 11-8-2020 | 1 | Laraib naseer |
| 1.1 | Work Breakdown Structure (WBS) | 1 | 11-8-2020 – 13-8-2020 | 3 | Laraib naseer |
| 1.2 | Roles & Responsibility Matrix | 2 | 14-8-2020 – 16-8-2020 | 3 | Laraib naseer |
| 1.3 | Change Control System | 3 | 17-8-2020 – 21-8-2020 | 5 | Laraib naseer |
| 2 | Reports / Documentation | | 22-8-2020 | | Laraib naseer |
| 2.1 | Final Documentation Introduction | 4 | 22-8-2020 – 24-8-2020 | 3 | Laraib naseer |
| 2.2 | Literature / Markey Survey | 5 | 25-8-2020 – 28-9-2020 | 4 | Laraib naseer |
| 2.3 | Requirements Analysis | 6 | 29-8-2020 – 6-8-2020 | 9 | Laraib naseer |
| 2.4 | System Design | 7 | 7-9-2020 – 21-9-2020 | 15 | Laraib naseer |
| 2.5 | Implementation | 8 | 22-9-2020 – 29- | 9 | Laraib naseer |

| | | | | | |
|-------|--------------------------------------|----|-------------------------|---|---------------|
| | | | 9-2020 | | |
| 2.6 | Testing & Performance Evaluation | 9 | 29-9-2020- 4-10-2020 | 6 | Laraib naseer |
| 2.7 | Conclusion & Outlook | 10 | 5-10-2020 – 6-10-2020 | 2 | Laraib naseer |
| 2.8 | End User Documentation | 11 | 7-10-2020 – 8-10-2020 | 2 | Laraib naseer |
| 2.9 | Website Administration Documentation | 12 | 8-10-2020 – 12-10-2020 | 5 | Laraib naseer |
| 2.10 | System Administrator Documentation | 13 | 13-10-2020 – 14-10-2020 | 2 | Laraib naseer |
| 3 | System | | 15-10-2020 | | |
| 3.1 | Development Environment | 14 | 15-10-2020 – 16-10-2020 | 2 | Laraib naseer |
| 3.1.1 | IDE | 15 | 17-10-2020 – 18-10-2020 | 2 | Laraib naseer |
| 3.1.2 | Version Control | 16 | 19-10-2020 – 20-10-2020 | 2 | Laraib naseer |
| 3.1.3 | Server | 17 | 19-10-2020 – 20-10-2020 | 2 | Laraib naseer |
| 3.1.4 | Database | 18 | 21-10-2020 -22-10-2020 | 2 | Laraib naseer |

2.1 1.7.3 Gantt Chart

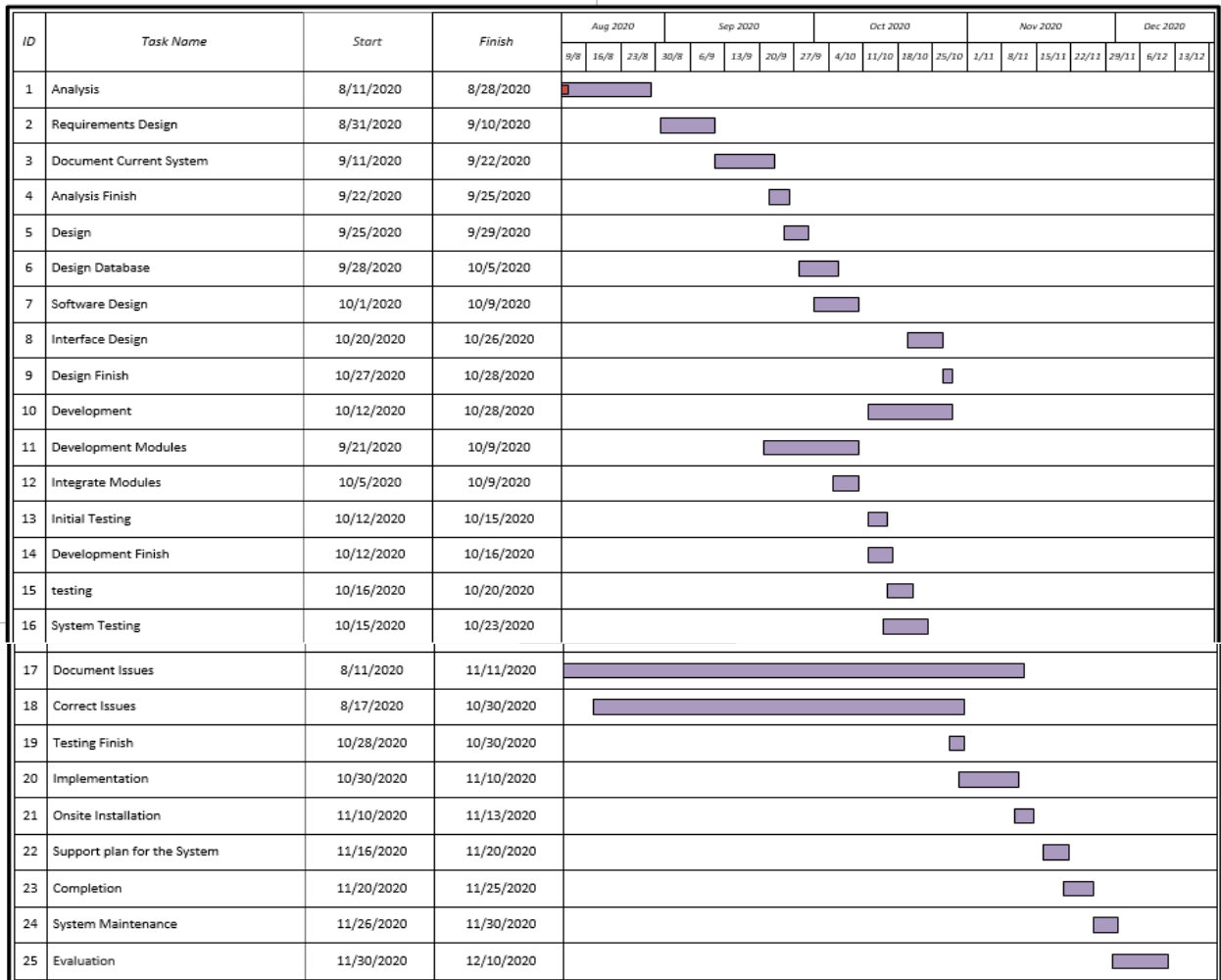


Figure 1.2

1.7 Report Outline

The future plan of this project is to improved design; implementation and documentation in such a way that anyone can use this project for better perform. I will develop the site more dynamically and the database work as well. There are some limitations in my project. In future I will add the following module for better improvement of the project:

- More security in the system
- More user-friendly system

Chapter 2

Software Requirement Specifications

Chapter 2: Software Requirement Specifications

2.2 Introduction

I will start with a simple fact: each website development project should aim to help users solve their problems.

If the web does not meet the needs of the customers it was created for, the development project could result in total failure and heavy financial losses.

This concept is pretty obvious, but not so straightforward to implement ...

In fact, according to PMI's in-depth Pulse of the Profession report, approximately 47% of all unsuccessful projects fail to achieve their goals due to poor requirements management.

A great project specification:

For any web development company, the best way to overcome these problems is to set a good web project specification.

This tool helps cover the following points:

- Being on the same page
- Easily negotiating any changes
- Being sure that the requirements are relevant to the business objectives
- Getting rid of any doubts that something essential has been lost

2.3 1.1 Purpose

The **software** requirements are a description of the features and functions of the target system. The requirements convey the users' expectations of the software product Front ends & Back ends are given below:

HTML, CSS, Bootstrap, JQuery, JAVA SCRIPT, Php, MYSQL

2.4 1.2 Document Conventions

2.5 One of the best models is the software requirements specification (SRS) created by

2.6 Karl Wiegerts.

We Bendix A – Glossary: It contains links to definitions that facilitate proper interpretation of the SRS.

1.1 Intended Audience and Reading Suggestions

We hereby also explain the purpose that this document is intended for the developers, Project managers, marketing staff, users, testers, and documentation writers. This SRS report contains all the analysis for the development of a strong online Vegetables web/app.

We

Also suggest this audience according to the open-source nature of the project, may be, if Someone considers this project to be more precisely crafted, then there is a space we spare for. The sequence for reading the document, beginning with the overview sections and Proceeding through the modules and Data flow sections that are most pertinent to each reader type to understand the system.

1.2 Product Scope

Product perspective: the description of the context and origin of the product prepared in a special form.

Product features: all the characteristics that will be implemented in the web in a short table view.

User roles and rights: the description of user classes in a brief table view.

Operating environment: hardware and software platforms, other products that need to be considered.

Design and Implementation Constraints: Anything that marginalizes the outside-the-box thinking of developers and designers.

2.7

1.2.1 References

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Anderson, R.E., Hardenburg, R.E. and Vaught, H.C. 1963. Controlled atmosphere storage studies with cranberries. Proceedings of the American Society of Horticultural Science 83, 416– 422.

1.3 Overall Description

Overall Description types

1.3.1 Product Perspective

The main aim of this website is to reduce the manual work of the people. In this website all details and records are maintained database software. Vegetables names and vegetable prices are displayed in the website. Whenever we need data, we can easily access the database to retrieve the data that are already stored at anywhere in the world. The prices will be updated periodically day by day. The records are frequently updated by the admin of the website. It provides a simple user interface to the users. The working method of users are designed by very simple.

1.3.2 Product Functions

Every single modulo has a separate unit of process. In this website every single page is called modulo. We are creating the number of modules that are described as below: -

- User Registration
- User Login
- Home Screen
- Vegetables Price
- Payment Option
- Feedback Screen
- About Us

1.3.3 User Classes and Characteristics

Product features: all the characteristics that will be implemented in the web in a short table view.

Hardware interfaces: logical and physical characteristics of the interfaces between the web and the hardware. Device models, use of physical controls, communication protocols, and so on.

Then create a table with the characteristics of your product. After that, it will be quite easy to finish the System Features section.

User roles and rights: the description of user classes in a brief table view.

1.3.4 Operating Environment

Operating environment: hardware and software platforms, other products that need to be considered.

Hardware interfaces: logical and physical characteristics of the interfaces between the web and the hardware. Device models, use of physical controls, communication protocols, and so on.

Software Interfaces: APIs, cross-platform compatibility and operating systems, databases, third-party software tools, and integrated components.

In this section, you should clarify if your mobile web needs to be integrated with social media.

You should also specify the ability to configure your mobile web to send data to/from an external server and provide a general description of the server part.

Other adjustable parameters include print availability, in-web purchases availability, support of geographic data functionality, and push notifications.

1.3.5 Design and Implementation Constraints

Anything that marginalizes the outside-the-box thinking of developers and designers.

1.3.6 User Documentation

A list of user-related documents that will be released along with the web.

1.3.7 Assumptions and Dependencies

Here you can place anything that is still not clear to classify in the current stage.

1.4 External Interface Requirements

Here we describe all the interfaces involved in the project.

2.8

1.4.1 User Interfaces

2.9 Prototype and description of all web screens and view sections. Screens (tabs) must be presented separately, with images, presentations, and all other visual materials available.

1.4.2 Hardware Interfaces

Logical and physical characteristics of the interfaces between the web and the hardware. Device models, use of physical controls, communication protocols, and so on.

1.4.3 Software Interfaces

APIs, cross-platform compatibility and operating systems, databases, third-party software tools, and integrated components.

In this section, you should clarify if your mobile web needs to be integrated with social media.

You should also specify the ability to configure your mobile web to send data to/from an external server and provide a general description of the server part.

Other adjustable parameters include print availability, in-web purchases availability, support of geographic data functionality, and push notifications.

1.4.4 Communications Interfaces

Describe the requirements associated with any communications functions required by this product, including e-mail, web browser, network server communications protocols, electronic forms, and so on. Define any pertinent message formatting. Identify any communication standards that will be used, such as FTP or HTTP. Specify any communication security or encryption issues, data transfer rates, and synchronization mechanisms.

1.5 System Features

E-mail, browser, server exchange protocols, the definition of message formatting.

1.5.1 System Feature 1

2.10 Here are all the functional requirements in the form of the main services provided by the web. For each one it should contain

2.11 Description and Priority

The security feature is the bottom line of the system because the information, logins and passwords, Payments and private details of the users are the priority to be made inaccessible for any unauthorized individual. So that our clients and users can experience a safer and better use.

1.5.1.1 Stimulus/Response Sequences

- **Stimulus:** User clicks on Login Link.
Response: Login Page is displayed
Stimulus: User Enters Username and Password
Response: Username and Password are validated from MySQL Database.
Stimulus: User Clicks on Login Button
Response: Home Page is displayed if Username and Password is correct else Error Message is displayed.
- **Stimulus:** User clicks on Courses Link
Response: Courses are displayed
Stimulus: User Clicks on a particular course
Response: The course page and associated activities are displayed

1.5.1.2 Functional Requirements

User:

- Login Management
- Home Page for vegetables.
- User can upload their Query.
- Post Query
- Get notification after user registered.
- Search promotions with user expectation.
- Get better Solution.

- View vegetables.
- Select vegetables.
- cut, chops and crush vegetables options.

Admin:

- Web management (Admin should be able to manage different vegetables. Like create, update and delete rate list and vegetables)
- Admin should update web and also create trashed vegetables list for animals in less price.
- Customer should be able to see rate list and vegetables.

Administrator login manage member, manage list of products, manage category, manage price, manage area, manage page, manage customers, View order, manage profile, view profile, view reports. Embassy

Customer login search products, place order, view account balance, cancel order, give feedback, edit profile.

Seller logins edit profile, confirmation of the task, View and create feedback.

1.5.2 System Feature

29.2.1. Login/Signup

1.5.2.1 Description and Priority

The security feature is the bottom line of the system because the information, logins and passwords, Payments and private details of the users are the priority to be made inaccessible for any unauthorized individual. So that our clients and users can experience a safer and better use.

1.5.2.2 Stimulus/Response Sequences

2. **Stimulus:** User clicks on Login Link.

Response: Login Page is displayed

Stimulus: User Enters Username and Password

Response: Username and Password are validated from MySQL Database.

Stimulus: User Clicks on Login Button

Response: Home Page is displayed if Username and Password is correct else Error Message is displayed.

3. **Stimulus:** User clicks on daily product

Response: Vegetables are displayed

Stimulus: User Clicks on a particular Vegetable

Response: The Menu page and associated activities are displayed

3.1.1.1 Functional Requirements

(Use Cases, User Stories): The user of a scenario interacts with the functionality from start to finish, including alternate scenarios and exceptions.

- **REQ-SF1-1:** The user shall be able to view and click on Login Link.
REQ-SF1-2: The user shall be able to enter the username and password
REQ-SF1-3: The database shall be able to validate username and password.
- **REQ-SF1-4:** *The user shall be able to view and click on the Vegetables page.*
REQ-SF1-5: *The user shall be able to view the activities associated with each product.*

3.2 Other Nonfunctional Requirements

Availability

Performance

Security

Flexibility

Maintainability

Manageability

3.2.1 Performance Requirements

Performance: measurable parameters relating to working speed, productivity, etc.

The prices will be updated periodically day by day. The records are frequently updated by the admin of the website. It provides a simple user interface to the users. The working method of users are designed by very simple. The prices will be updated periodically. The updating of prices is very easy in this website. Using of this website user can view the vegetable prices at anywhere. The website needs one-time updates per day.

3.2.2 Safety & Security Requirements

Safety: all precautions that must be taken into account to avoid possible injury.

Security: All required standards and provisions implemented to avoid data breaches.

Security depends upon the access of unauthorized persons so; our Website will provide the user authentication by registration process and also secure the information of registered users. Only one person can be the admin of this site to maintain it. Only admin can change the authorization to site. Backup for the web website's data shall be generated every day.

3.2.3 Software Quality Attributes

Software Quality Attributes: Everything about your web's quality measures.

Reliability

The system is reliable, but its reliability also depends upon how the user interacts with the system. The system must be reliable in case of ease of access, ease of use, and also user friendly.

Availability

The availability of product or website depends on the internet availability, which is not a big problem now a day.

Maintainability

The website will be flexible and extensible enough to update easily. Any new module or information in future will be easily emerged in the system.

Portability

Portability depends on the efforts needed to transfer website from one environment to other. Our website is easy to portable because it is developed in hardware independent fiction

3.2.4 Business Rules

As we said before, there are three main categories of stakeholders, each with their own level of requirements: business requirements at the top, user requirements at the center, and technical requirements at the bottom.

All three types of requirements should be found in a good specification.

3.3 Other Requirements

Any other requirement that is not placed elsewhere.

We Bendix A – Glossary: It contains links to definitions that facilitate proper interpretation of the SRS.

We Bendix B – Analysis Models: Here you can put your diagrams and other visual modeling results. The DFD is required.

We Bendix C – List of problems: A place for all that is still unfinished. Use the TBD (To Be Determined) note for these cases.

Chapter 3

Use Case Analysis

Chapter 3: System Analysis

This chapter will describe about the use case of the system which will further illustrate the functional requirements of the systems and how functional requirements will interact with the user or actor.

Use case analysis is a technique used to identify the requirements of a system and the information used to both define processes and classes (which are a collection of actors and processes) which will be used both in the use case diagram and the overall use case.

3.1. Use Case Model

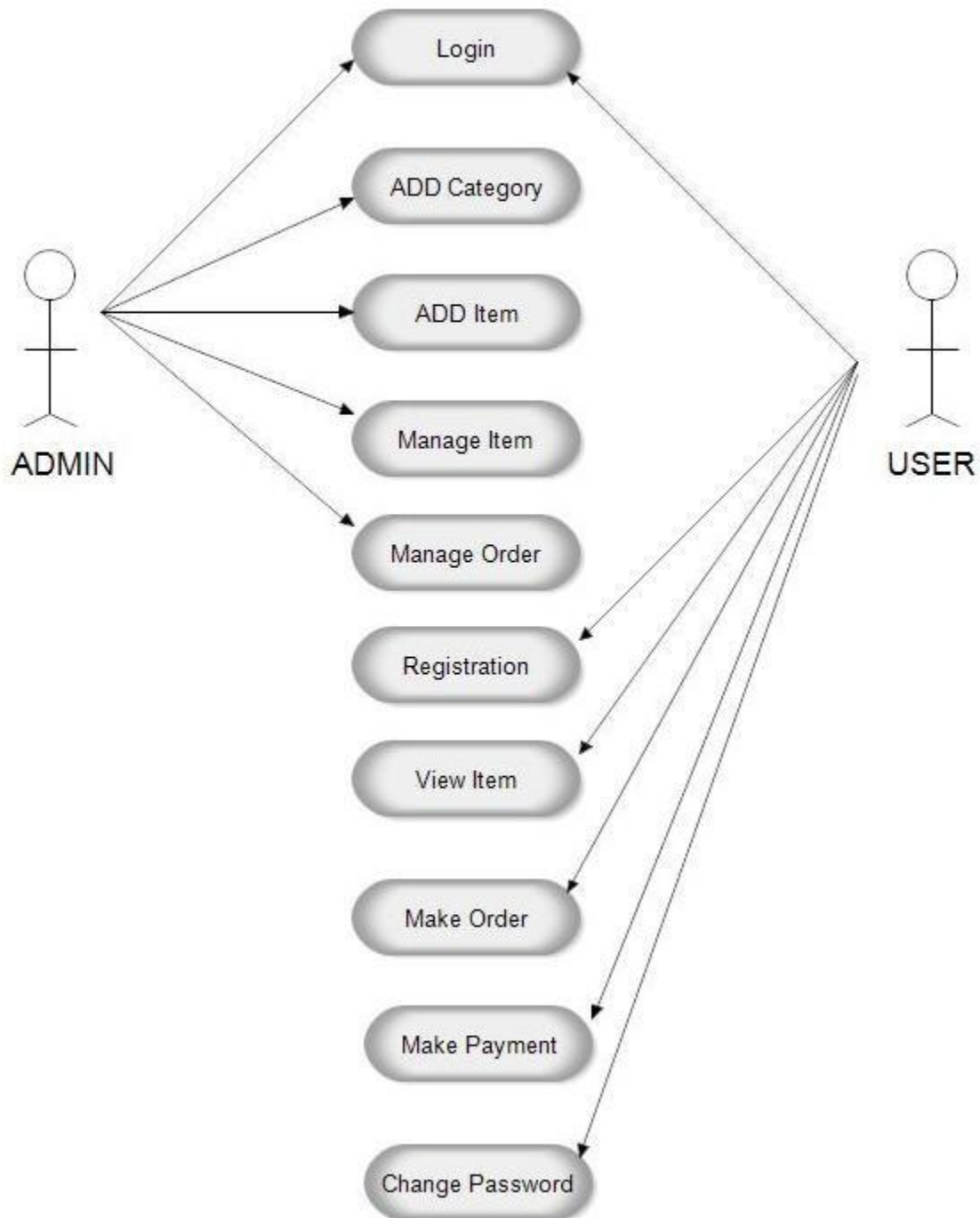


Figure 3.1

3.1. Use Case Descriptions

Use cases add value because they help explain how the system should behave and, in the process, they also help brainstorm what could go wrong. They provide a list of goals and this list can be used to establish the cost and complexity of the system. Project teams can then negotiate which functions become requirements.

| What Use Cases Include | What Use Cases Do NOT Include |
|--|---|
| <ul style="list-style-type: none"> • Who is using the website • What the user want to do • The user's goal • The steps the user takes to accomplish a particular task • How the website should respond to an action | <ul style="list-style-type: none"> • Implementation-specific language • Details about the user interfaces or screens. |

Table5: Use Case Model

This use case diagram is a graphic depiction of the interactions among the elements of vegetable online website. It represents the methodology used in system analysis to identify, clarify and organize system requirements of online vegetable website. The main actor of this website in this use case diagram are super admin, system user, who perform the different type of use cases such as vegetable, manage store, manage stock, manage category, manage payment, manage bill, manage customer, manage user, and full vegetable store management system operations. Major elements of use case diagram of online vegetable website are shown on the above picture.

The relationships between and among the actors and the use cases of online vegetable website are:

- **Super Admin Entity:** use cases of super admin are vegetables, manage store, manage stock, manage category, manage payment, manage bill, manage customer and manage users and full online vegetable website.
- **System User Entity:** use cases of super admin are vegetables, manage store, manage stock, manage category, manage payment, manage bill, manage customer and manage users and full online vegetable website.
- **Dealer Entity:** Use cases of dealer are check requests, create orders, deliver items, create invoice, and collect payments.
- **Customer Entity:** Use cases of customer are search vegetable, add to cart, make order, and make payment.

Chapter 4

System Design

Chapter 4: System Design

4.1. Architecture Diagram

Architecture diagram

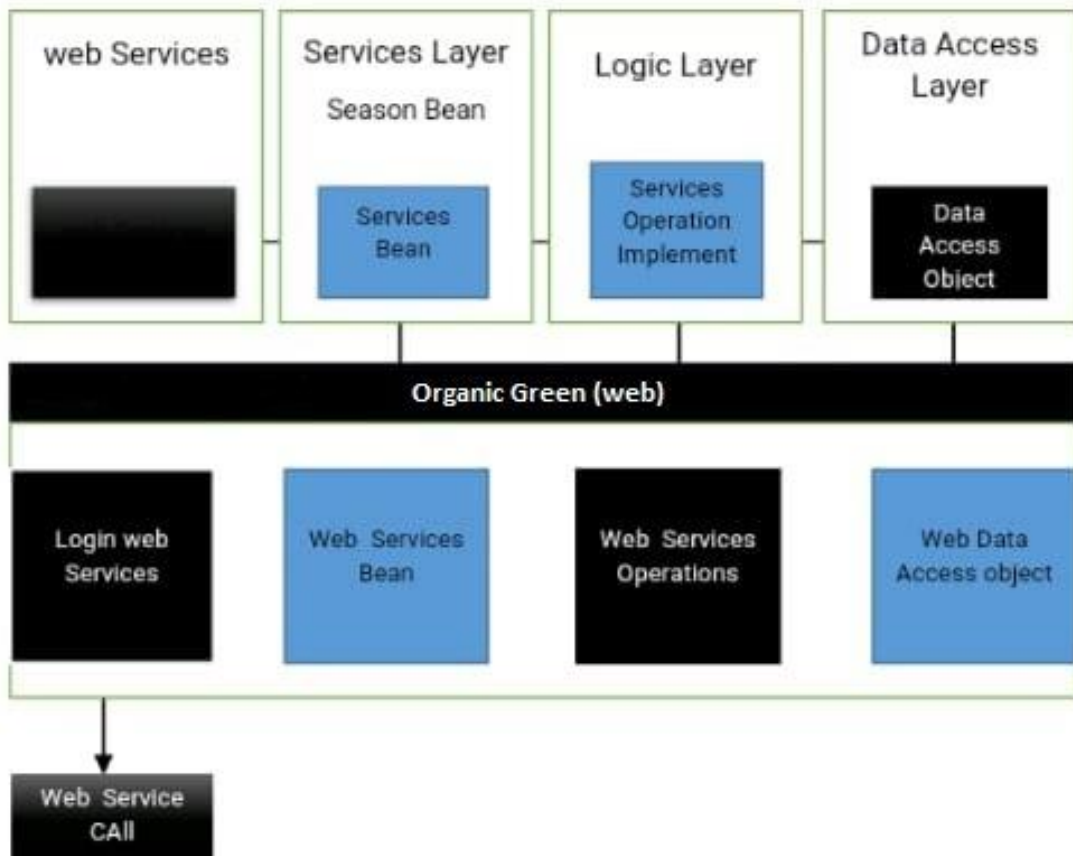


Figure 4.1

4.2. Domain Mode

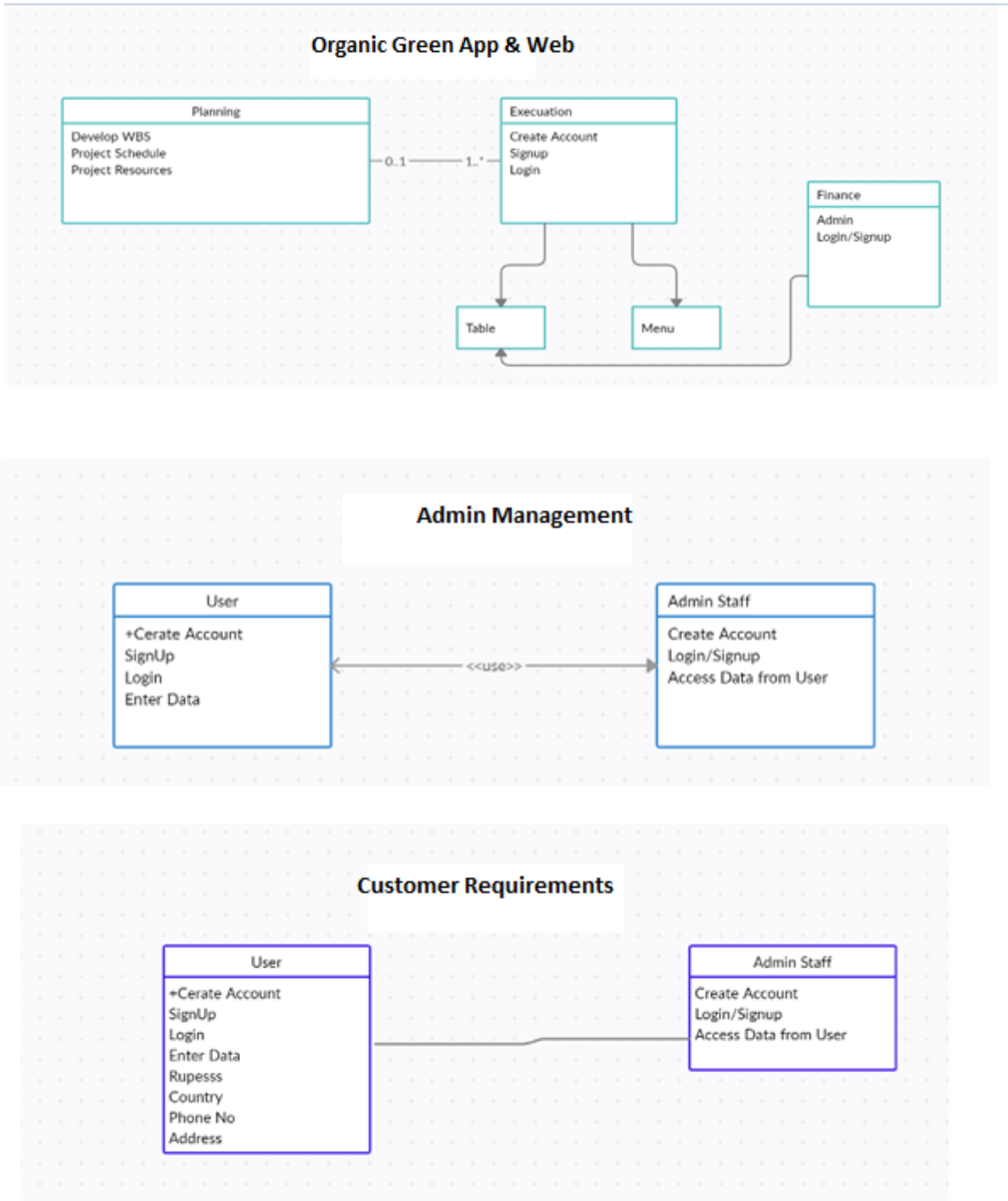


Figure 4. 2 Domain Model

4.3. Entity Relationship Diagram with data dictionary

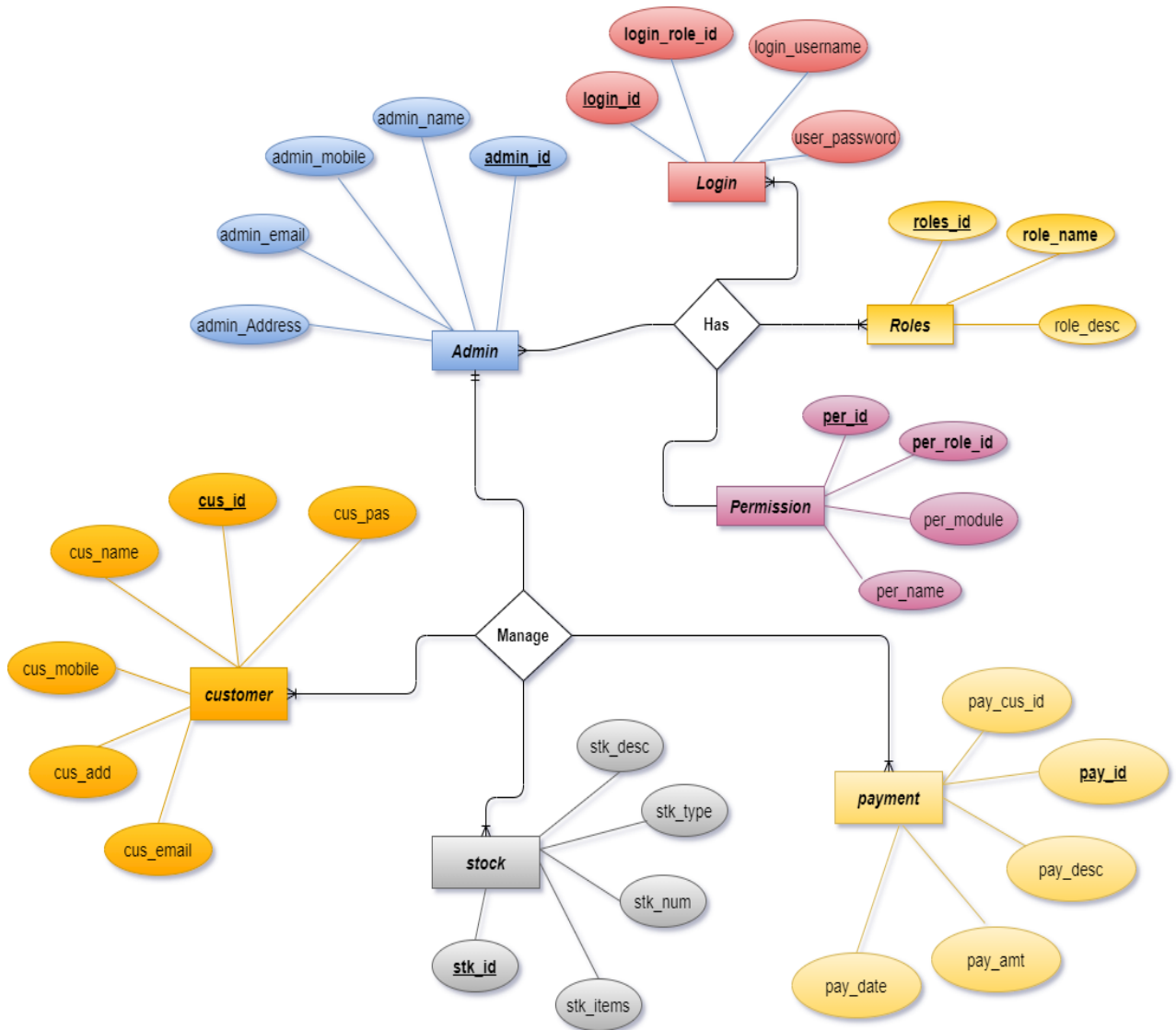


Figure 4.3 Entity Relationship Diagram

4.4. Class Diagram

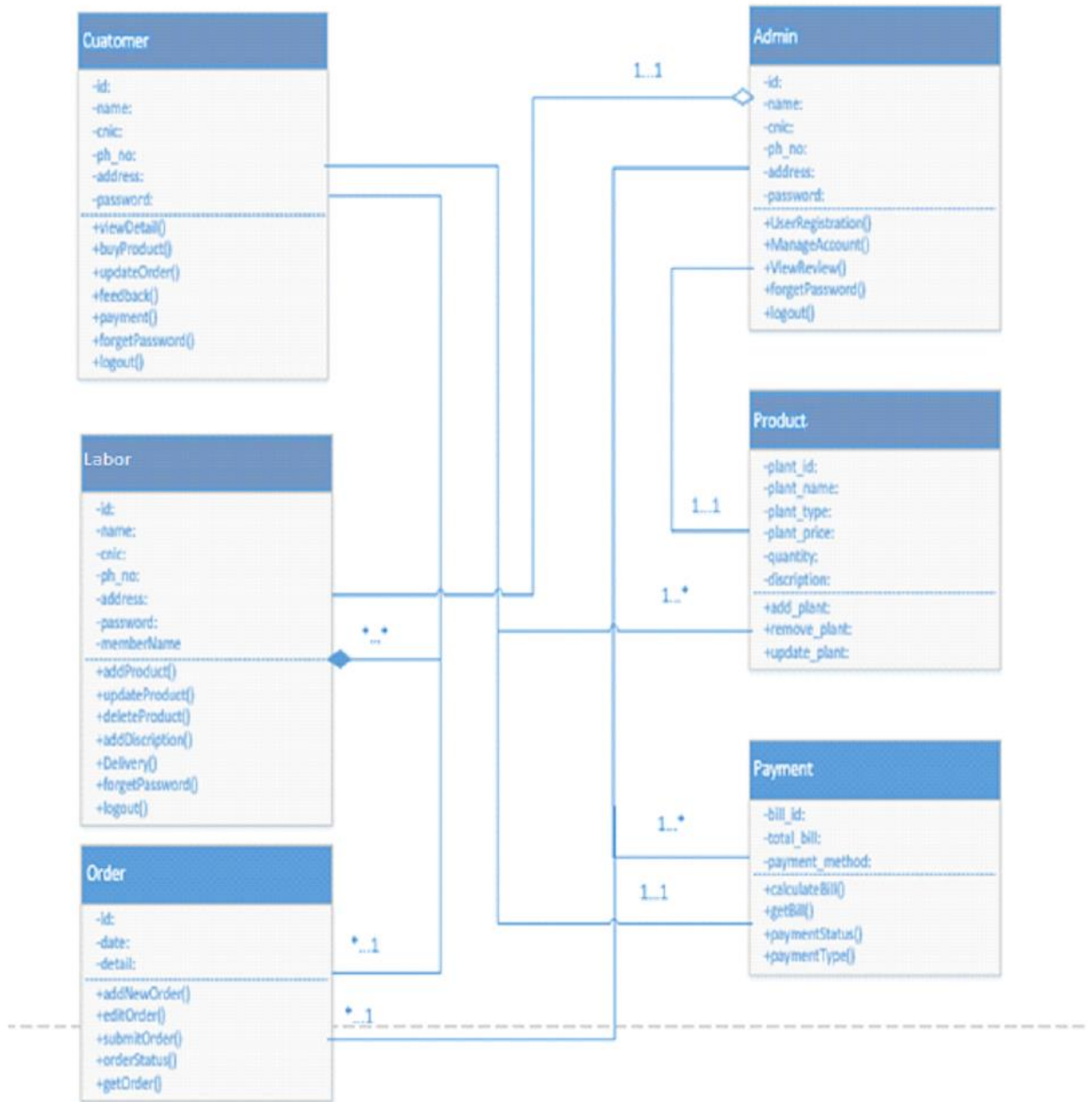


Figure 4.4 Class Diagram

4.5. Sequence / Collaboration Diagram

4.5.1. Login

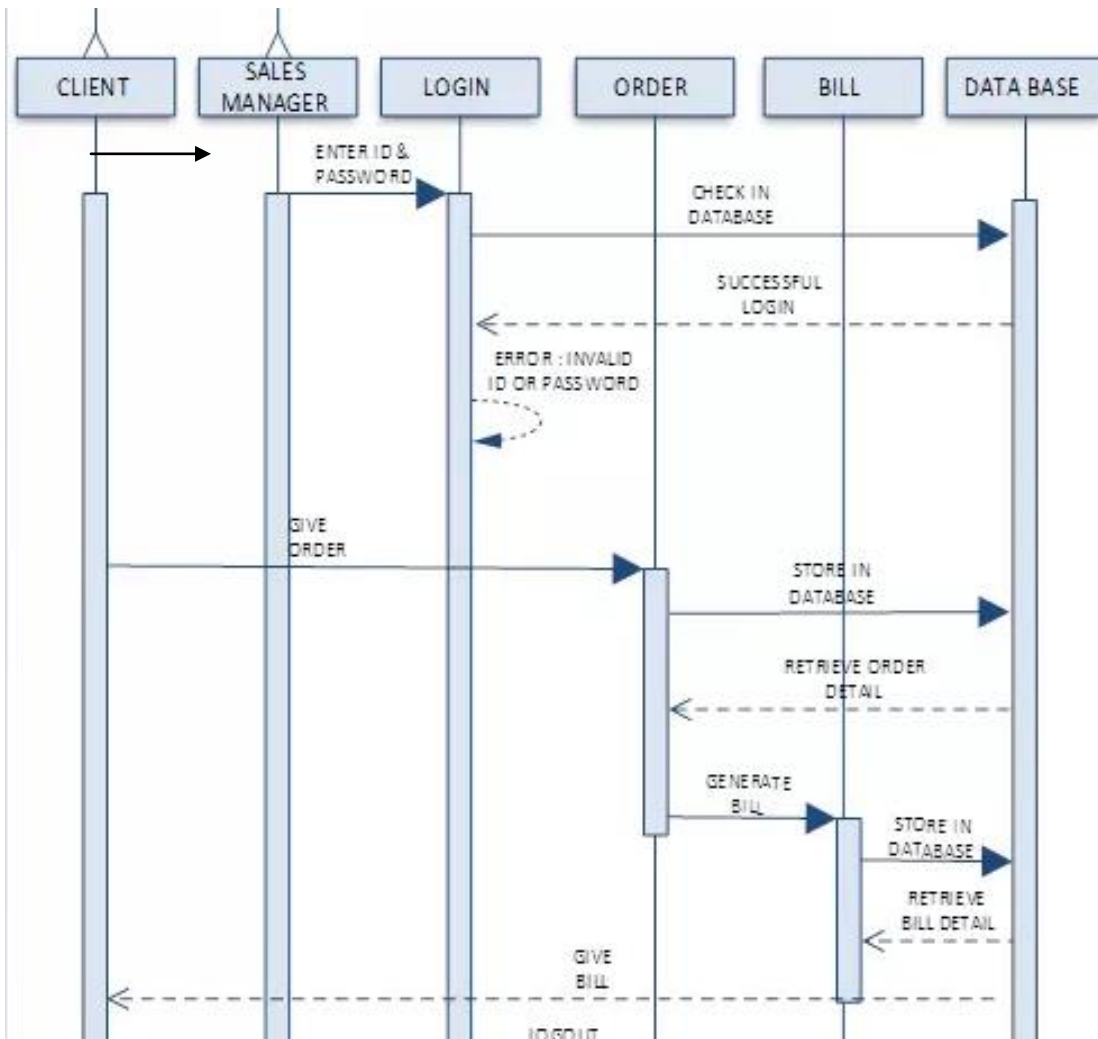


Figure 4.5. 1 Login

4.5.2. User Registration

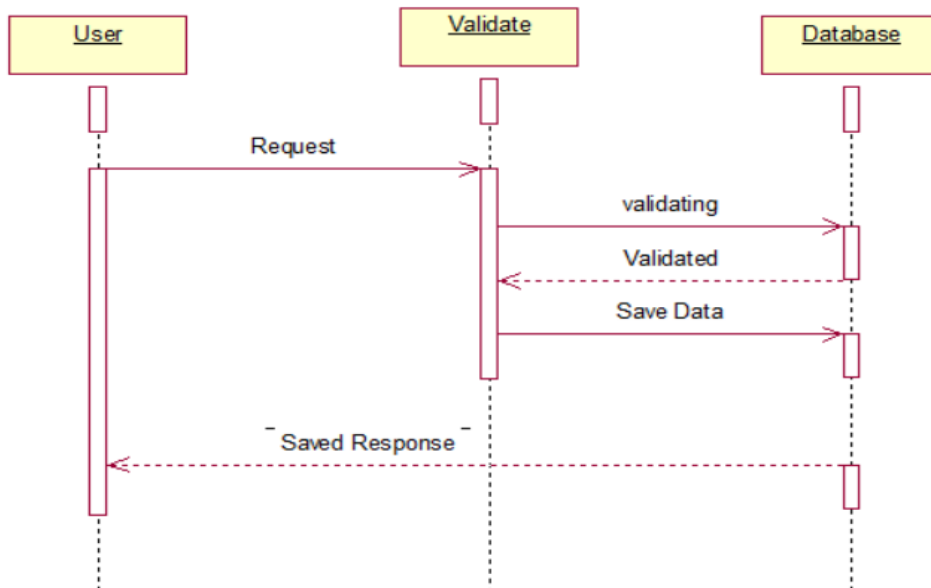


Figure 4.5. 2 Registration

4.5.3. Admin Registration

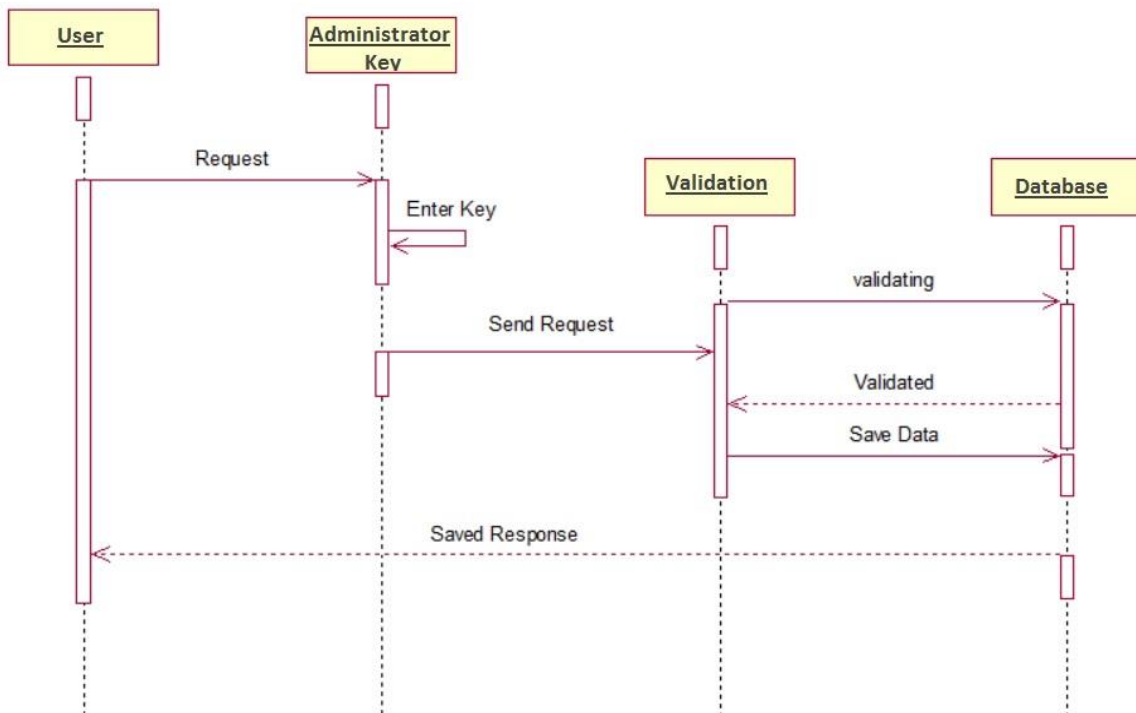


Figure 4.5.3 User Registration

4.5.4. Find Web and Register

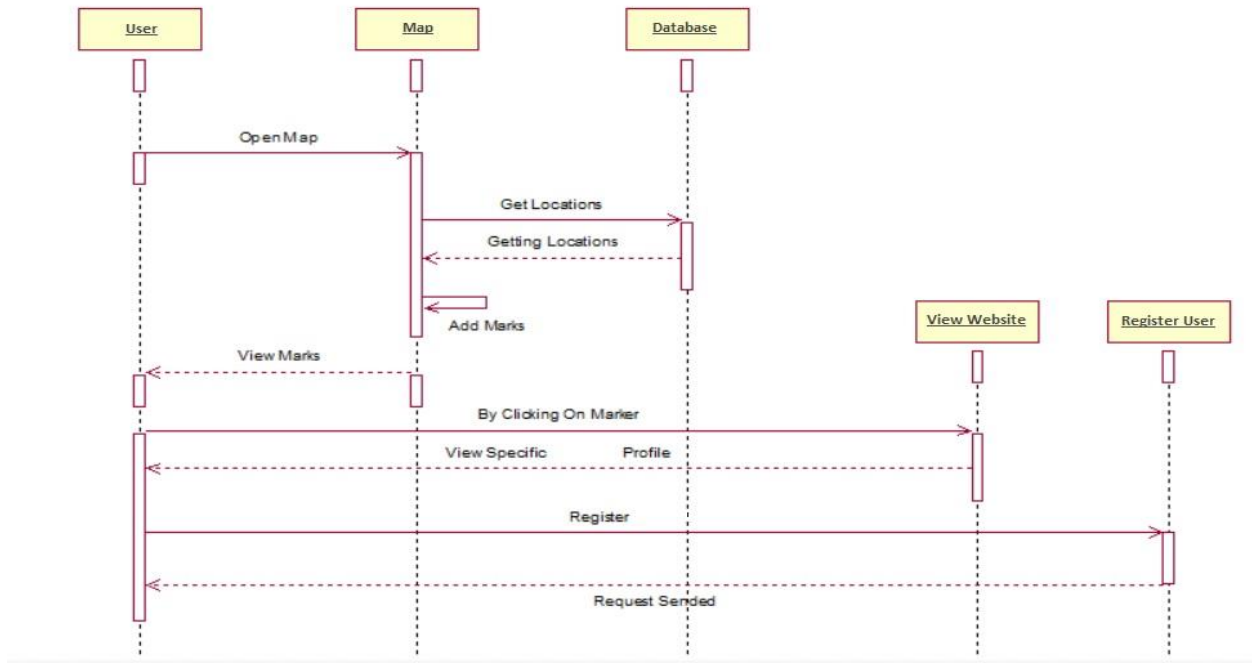


Figure 4.5. 4 Find App and Register

4.5.5. User Query Box and Feedback

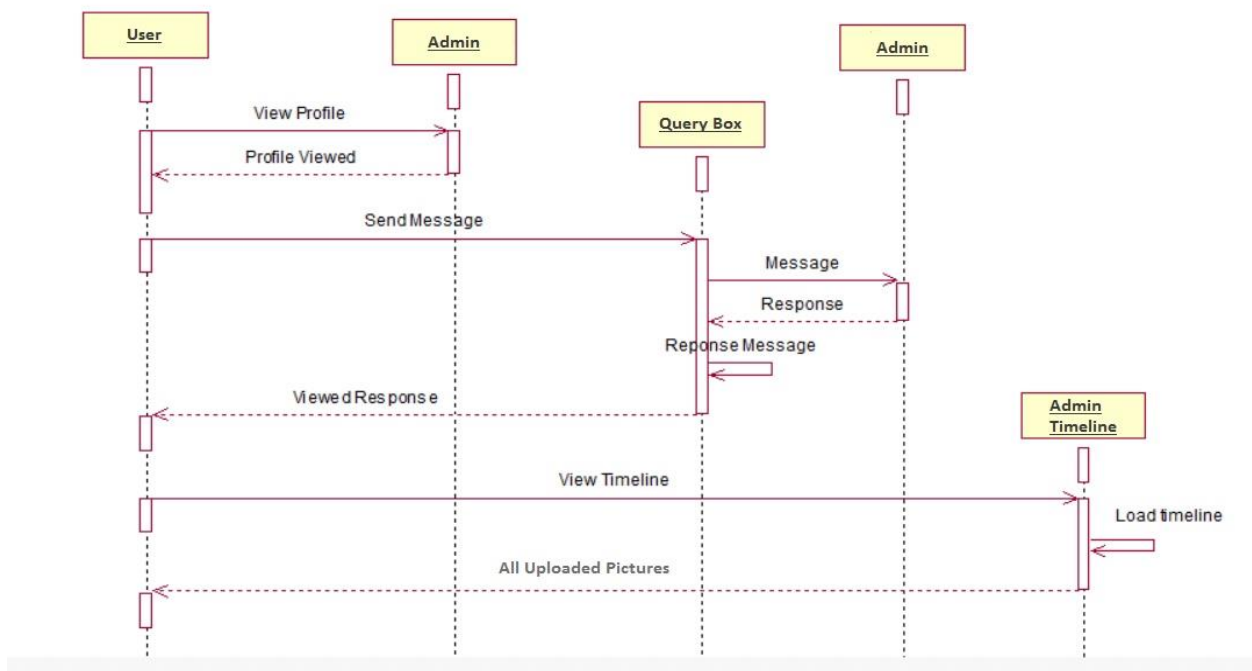


Figure 4.5. 5 User Query Box and Feedback

4.6. Operation contracts

4.6.1 Login

- **Operation Name:**
 - Login (Email, Password)
- **Cross Reference:**
 - Use Case: Login
- **Pre-Condition:**
 - Firstly, stakeholder will have login interface.
- **Post Condition**
 - Handle functionality according to their backhand functionality.
 - (Email, Password)

4.6.2 User Registration

- **Operation Name:**
 - Registration (Email, Password)
- **Cross Reference:**
 - Use Case: App Registration, Web Registration.
- **Pre-Condition:**
 - Registration profile interface with fields of email and password.
- **Post Condition**
 - According to their respective level in database profile of academy is created and display.

4.6.3 Admin Registration

- **Operation Name:**
 - Registration (Email, Password)
- **Cross Reference:**
 - Use Case: Admin Registration, Web/App Registration.
- **Pre-Condition:**
 - Admin registration interfaces with fields like password email and confirm password and register into the specific web with key.
- **Post Condition**
 - According to their respective level in database profile of person will display with Web and specific details.

4.6.4 Find Web and Register

- **Operation Name:**
 - Find Web and Register.
- **Cross Reference:**
 - Use Case: Find Web, Register Yourself.
- **Pre-Condition:**
 - Profile interface.
 - Nearby delivery boy on map interface.
- **Post Condition**
 - The person will be moved to the order, where he can find products. The location of the person will be got from database. Send request top the academy and registered to the academy.

4.6.5 User Query Box and Feedback.

- **Operation Name:**
 - User Query Box and Feedback.
- **Cross Reference:**
 - Use Case: Query box, View Feedback.
- **Pre-Condition:**
 - Query Box interface.
 - List of feedback in admin Profile interface.
- **Post Condition**
 - View feedback upload by admin.
 - Chat Box interface.

4.7. Activity Diagram

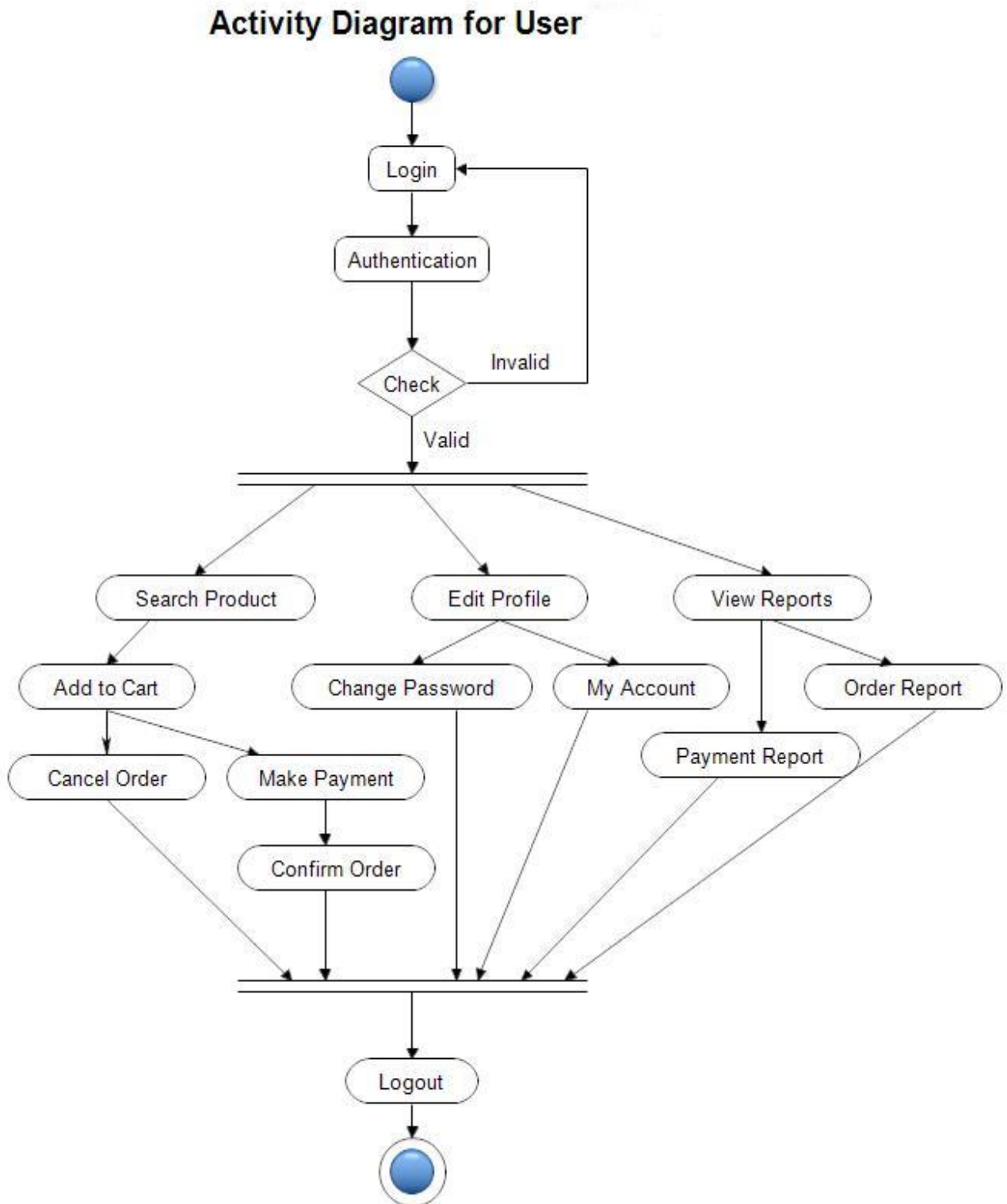


Figure 4.7. Activity Diagram

Activity Diagram for Admin

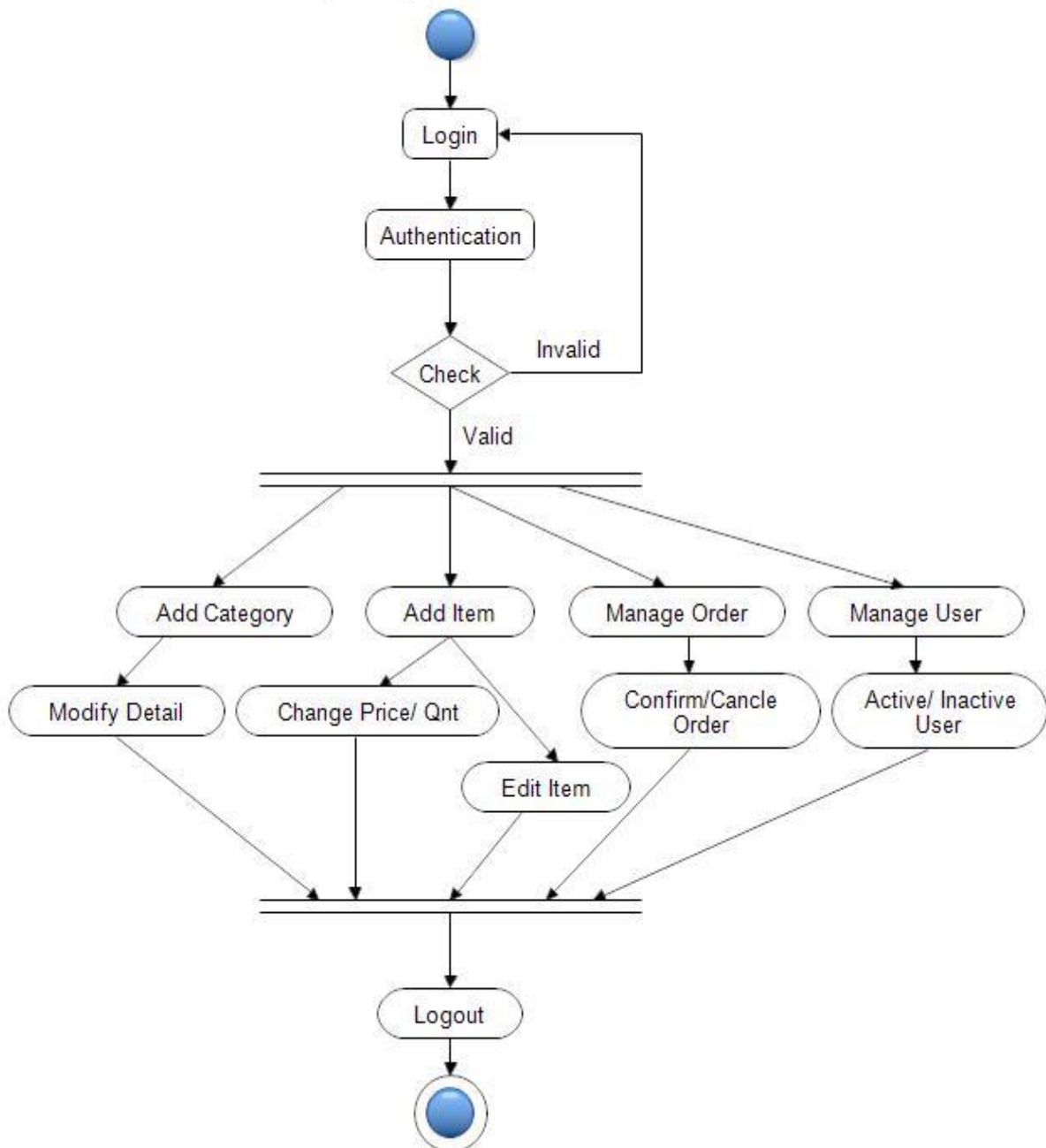
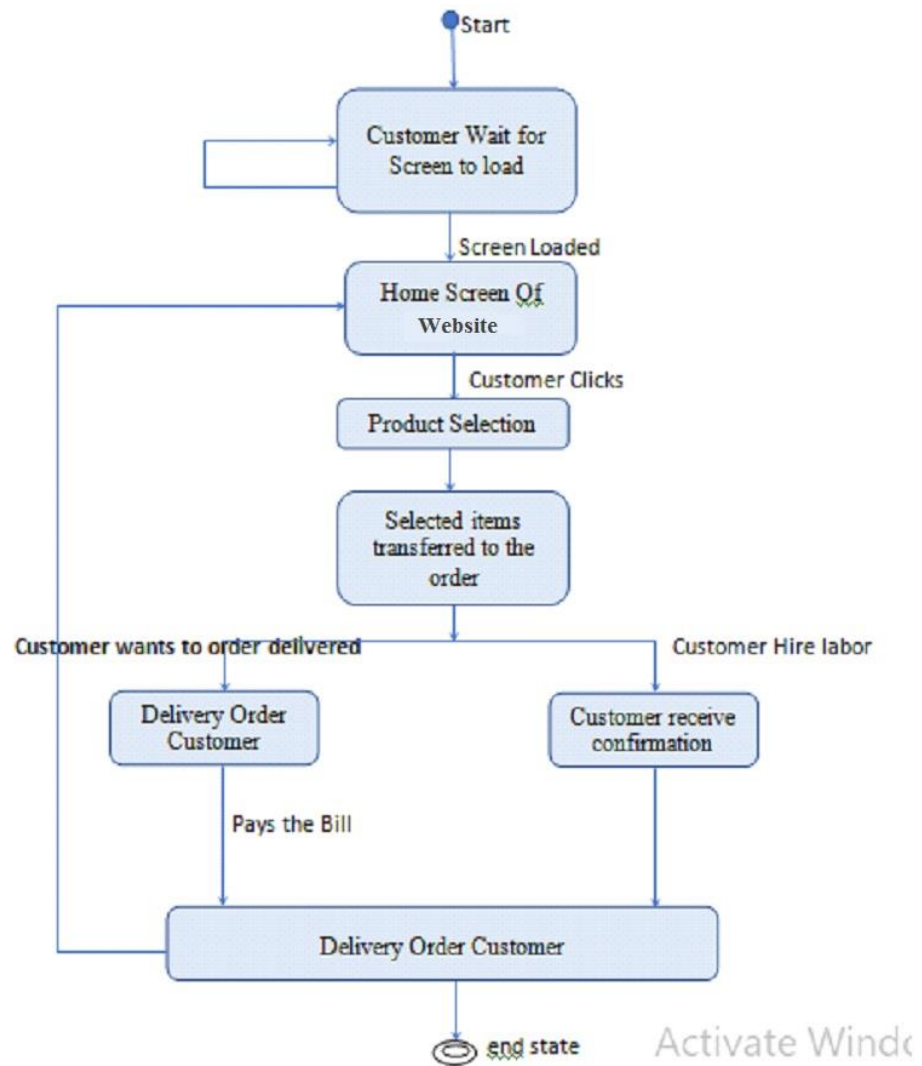
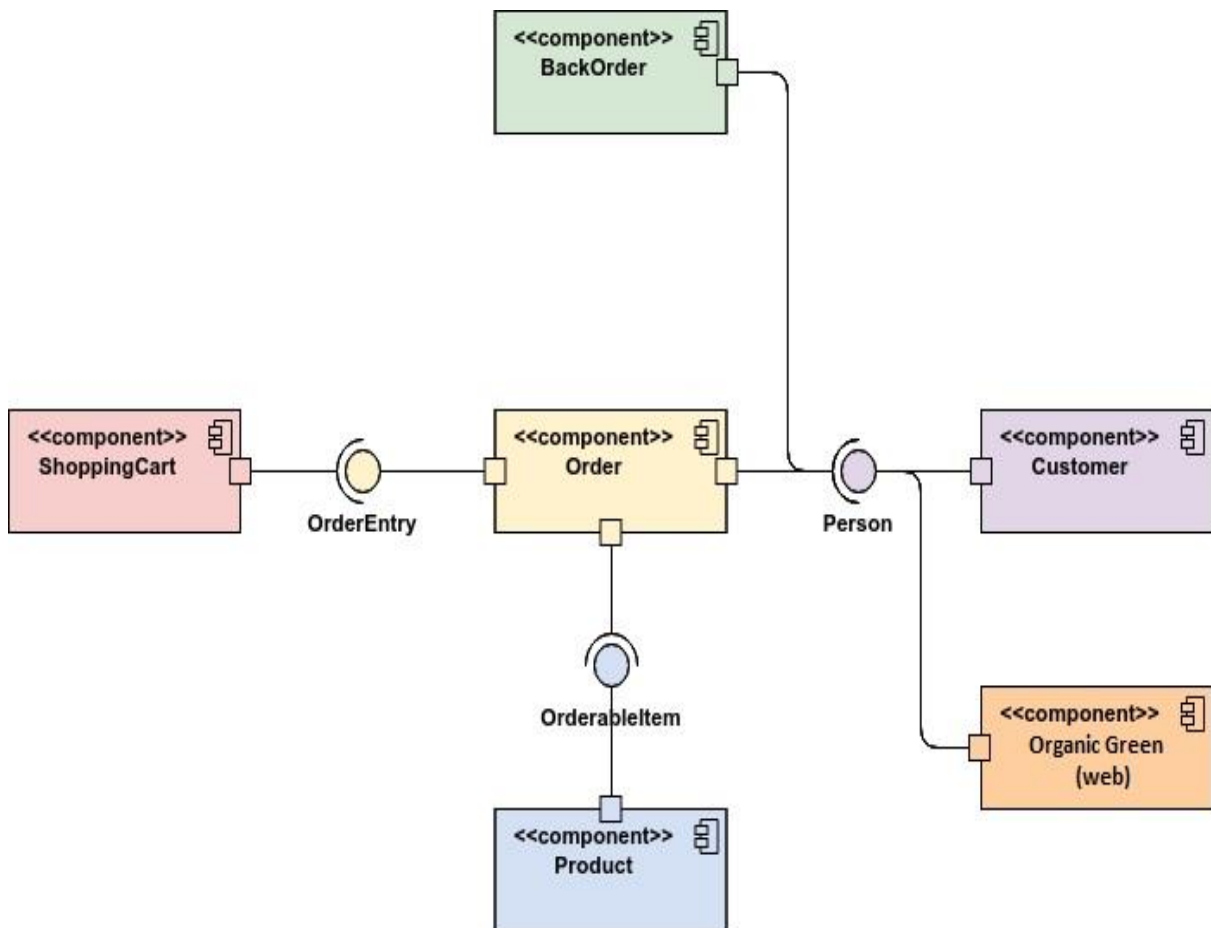


Figure 4.7.1. Activity Diagram

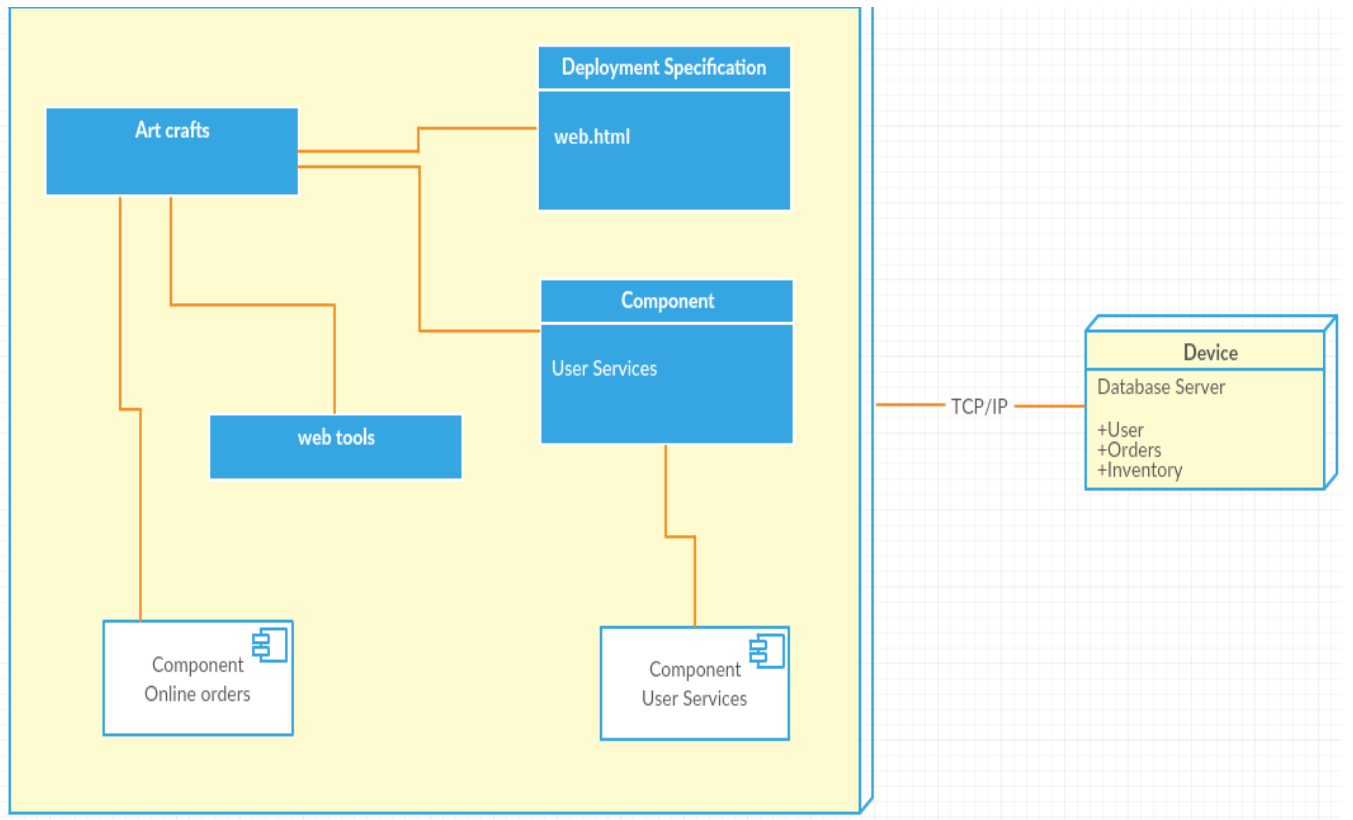
4.8. State Transition Diagram



4.9. Component Diagram

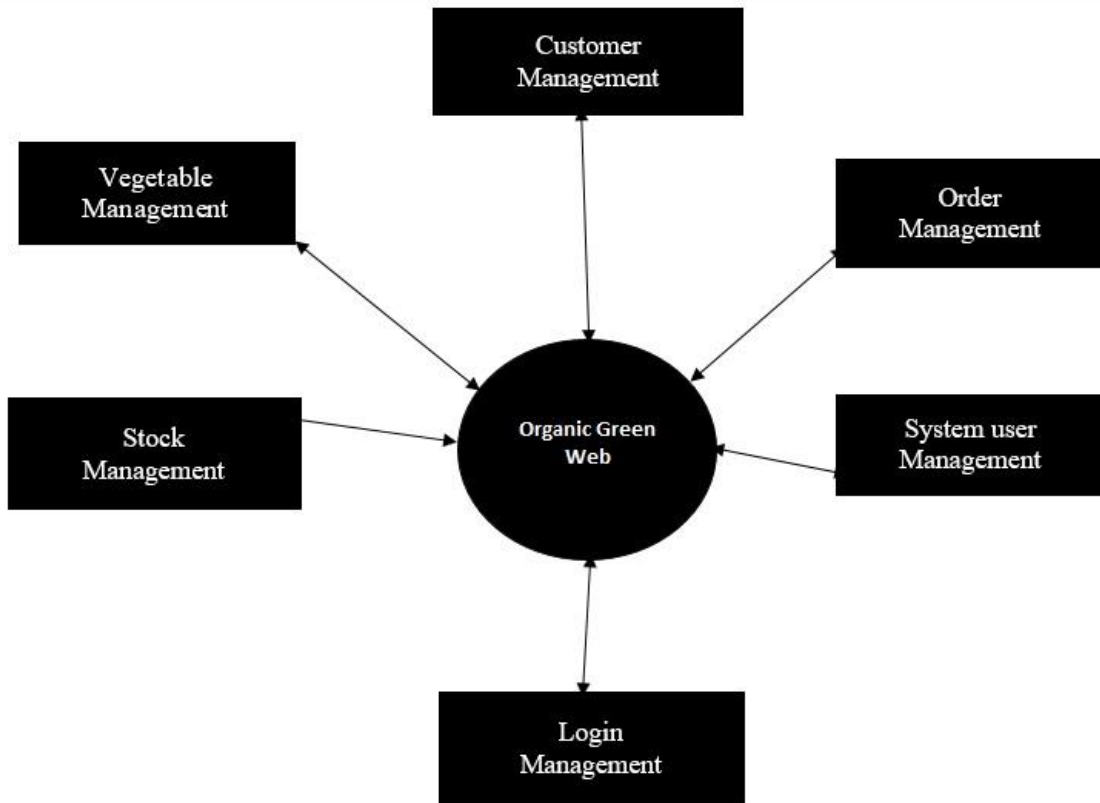


4.10. Deployment Diagram

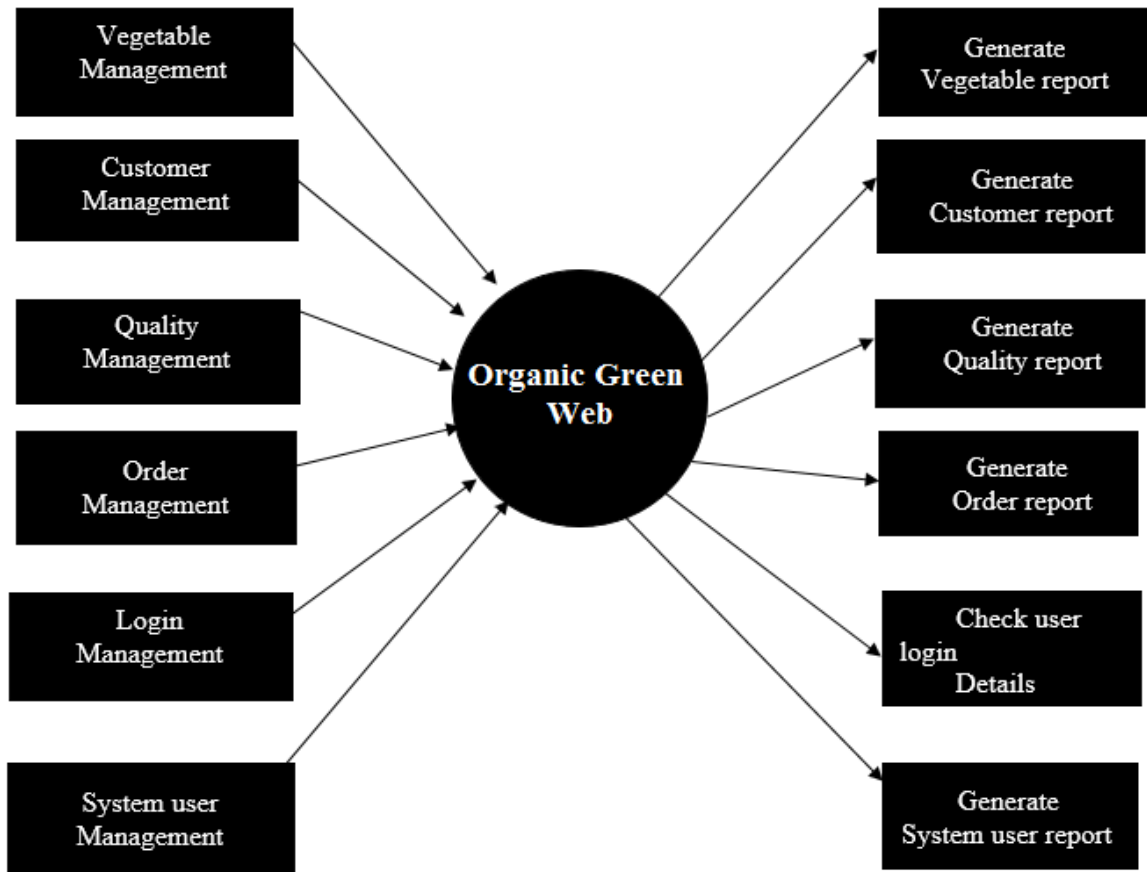


4.11. Data Flow diagram

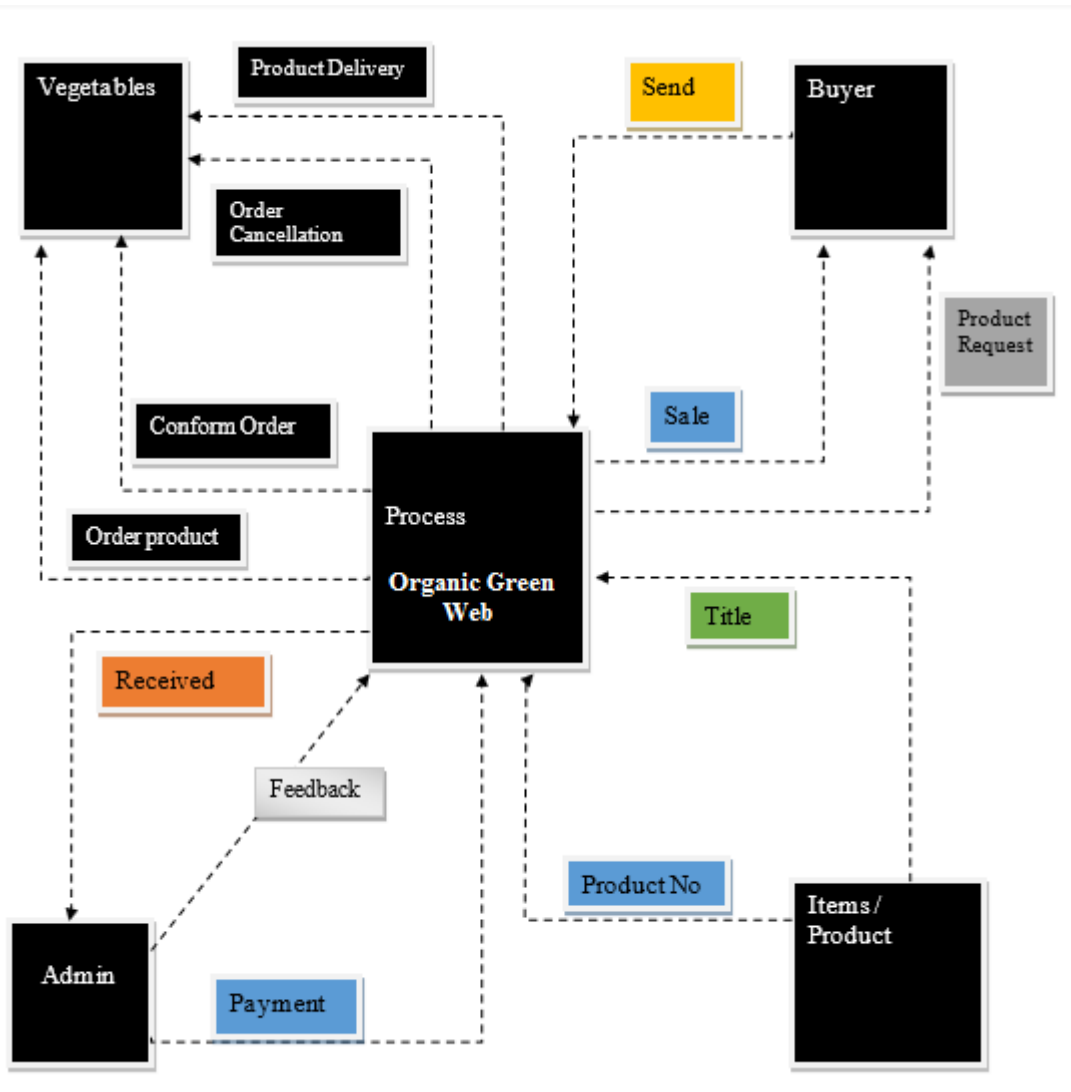
0 level



First Level DFD



Context Diagram



Chapter 5

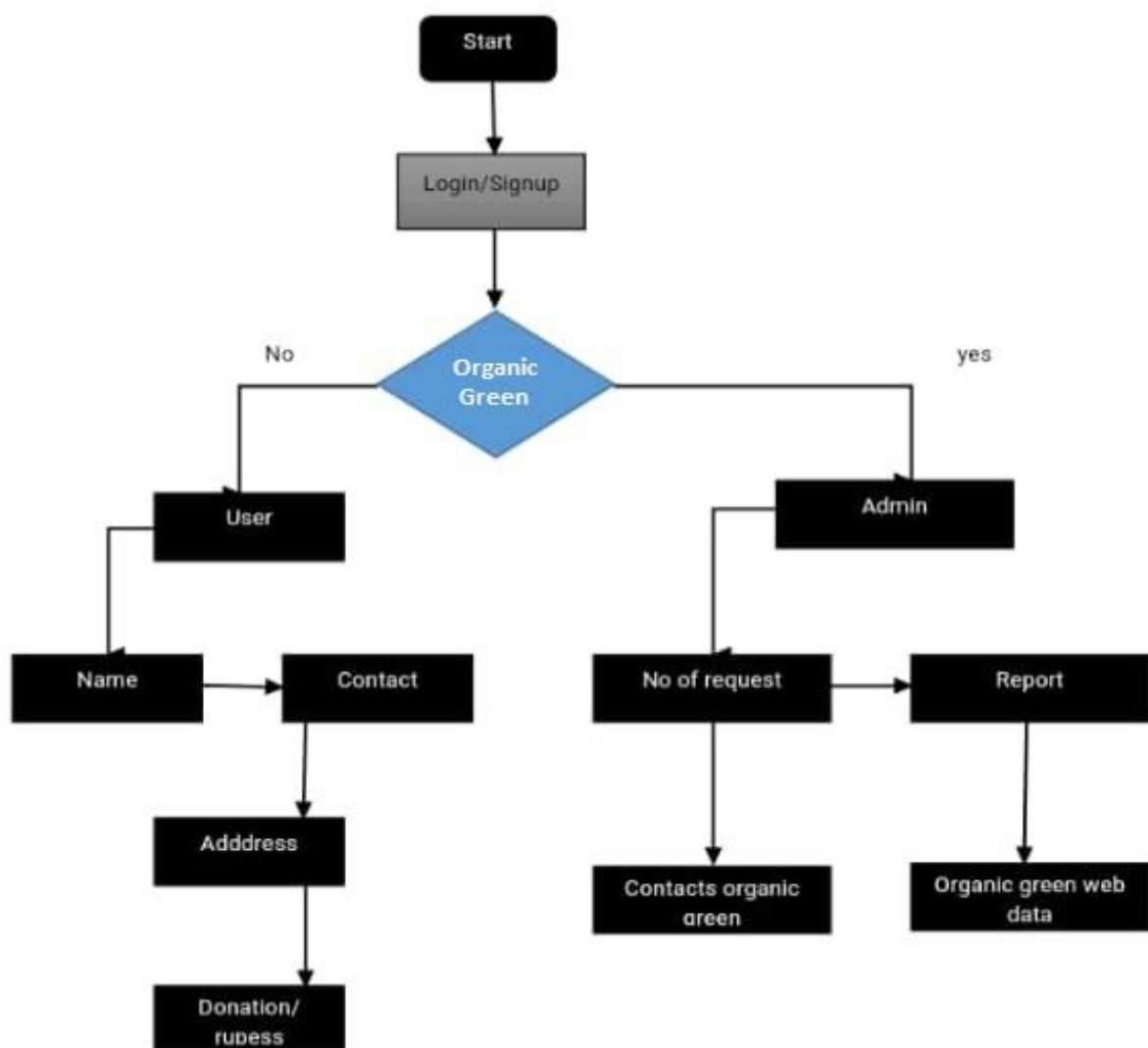
Implementation

Chapter 5: Implementation

There are so many modules available in this app such as creating account, login, home page view products, search, view profile and add to cart.

This chapter will walk through or talk about every fundamental or module to visualize the flow or advancing towards the mobile based application.

5.1. Important Flow Control/Pseudo codes



5.2. Components, Libraries, Web Services and stubs

- Google map APIs
- Native RTMP client
- St falcon-studio / Chat Kit

5.3. Deployment Environment

- Pc, Laptops & smartphones
- PHP, MySQL

5.4. Tools and Techniques

- Sublime Text
- JavaScript
- PHP
- MySQL
- Bootstrap

5.5. Best Practices / Coding Standards

- User friendly interface design
- Simple coding method
- File and folder structure
- Feedback of User/Patients

5.6. Version Control

- Sublime Text
- MySQL

Chapter 6

Testing and Evaluation

Chapter 6: Testing and Evaluation

This testing phase will use a number of testing techniques. The decision as to which technique(s) to use for any given unit of code will reside with the team leader responsible for signing-off on the Module.

6.1. Use Case Testing

After making this website we have to ensure that every aspect of our software's features working properly or not so we apply manual testing to check working of the website.

6.2. Data flow testing

4. PRE-CONDITIONS

USER MUST HAVE AN ACCOUNT ON THE SYSTEM

| | Actions/Steps | Expected Results |
|-------------------------------------|--|---------------------------------------|
| MAIN SUCCESS SCENARIO | User enters Email, Password and click on login button | Successfully login |
| | If username or password is incorrect | Cannot login ,(Display error message) |
| ACTUAL RESULTS | Successfully login in case of valid Email and Password otherwise cannot be logged in | |
| SUCCESS CRITERIA (PASS/FAIL) | Pass | |

TEST CASE#2

LOGIN

| TEST OBJECTIVE | In this test we check the function of login and its validations that either this is working properly or not | |
|-------------------------------------|---|---------------------------------------|
| PRE-CONDITIONS | User must have an account or not on the system | |
| MAIN SUCCESS SCENARIO | Actions/Steps | Expected Results |
| | User enters Email, Password and click on login button | Successfully login |
| | If username or password is incorrect | Cannot login ,(Display error message) |
| ACTUAL RESULTS | Successfully login in case of valid Email and Password otherwise cannot be logged in | |
| SUCCESS CRITERIA (PASS/FAIL) | Pass | |

6.1. Unit testing

Unit testing is a level of software testing where individual units/ components of a software are tested. The purpose is to validate that each unit of the software performs as designed. A unit is the smallest testable part of any software. It usually has one or a few inputs and usually a single output.

1. Sign Up

| TEST CASE#1 | | SIGN UP | |
|-------------------------------------|---|---------------------------------------|--|
| TEST OBJECTIVE | In this test we check the function of sign up and its validations that either this is working properly or not | | |
| PRE-CONDITIONS | User have an account or not on the system | | |
| MAIN SUCCESS SCENARIO | Actions/Steps | Expected Results | |
| | User enters Email, Password and click on Sign-up button | Successfully Sign-up | |
| | If username or password is incorrect | Cannot login ,(Display error message) | |
| ACTUAL RESULTS | Successfully Sign-up in case of valid Email ,Password and Confirm Passwords etc otherwise cannot be signed-up | | |
| SUCCESS CRITERIA (PASS/FAIL) | Pass | | |

| TEST CASE#2 | | LOGIN | |
|------------------------------|---|---------------------------------------|--|
| TEST OBJECTIVE | In this test we check the function of login and its validations that either this is working properly or not | | |
| PRE-CONDITIONS | User have an account or not on the system | | |
| MAIN SUCCESS SCENARIO | ACTIONS/STEPS | EXPECTED RESULTS | |
| | User enters Email, Password and click on login button | Successfully login | |
| | If username or password is incorrect | Cannot login ,(Display error message) | |
| ACTUAL RESULTS | Successfully login in case of valid Email and Password otherwise | | |

| | | |
|-------------------------------------|--|----------------------------|
| | cannot be logged in | |
| SUCCESS CRITERIA (PASS/FAIL) | Pass | |
| TEST CASE#3 | BUILD PROFILE | |
| TEST OBJECTIVE | In this test we check the functionality of this module that either this is working properly or not | |
| PRE-CONDITIONS | User must have an account on the system and must be logged in | |
| MAIN SUCCESS SCENARIO | Actions/Steps | Expected Results |
| | User enters Personal information, Company details and click on Build profile button | Profile successfully built |
| ACTUAL RESULTS | Profile successfully build | |
| SUCCESS CRITERIA (PASS/FAIL) | Pass | |
| TEST CASE#4 | EDIT PROFILE | |
| TEST OBJECTIVE | In this test we check the functionality of this module that either this is working properly or not | |
| PRE-CONDITIONS | User have an account on the system and be logged in | |
| MAIN SUCCESS SCENARIO | Actions/Steps | Expected Results |
| | User click on Edit button | Page successfully opened |
| | Enter information that wants to edit | Successfully edited |
| ACTUAL RESULTS | INFORMATION SUCCESSFULLY EDITED | |
| SUCCESS CRITERIA (PASS/FAIL) | Pass | |

Table 1: Unit Testing

Chapter 7

Summary, Conclusion and Future Enhancements

Chapter 7: Summary, Conclusion & Future

Enhancements

Enhancements

2.12 Conclusions

Here it will be explained what we have realized with respect to the requirements, the problems found during the development of the system, what we have learned from the realization of the project and the possible improvements will required in the website.

7.1. Project Summary

The present study was designed to making web based project named (Organic Green Store) in which we complete all the aspects of project from start to its completion. The theme of this project was facilitating the peoples that want to purchase their vegetables and fruits through this store as we know that, Today people don't have enough time to go markets for buying anything physically.

7.2. Achievements and Improvements

When we start this project we have not much more knowledge of that language in which we were going to make this project. After completion this project we have learnt much more about this language so it is our achievement. We have also achieved our goals of completing this project for facilitating the peoples concerning connecting people through our platform. We have learnt a lot of lessons during the development of this project Such as project planning, management and working as team member. We have also improve our skills in web applications that will be helpful in our practical life.

7.3. Critical Review

2.13 This part can be assumed after the release of public version.

7.4. Lessons Learnt

- Decision Making
- Program Management
- Project Governance
- Project Planning
- Roles & Responsibilities.

7.5. Future Enhancements/Recommendations

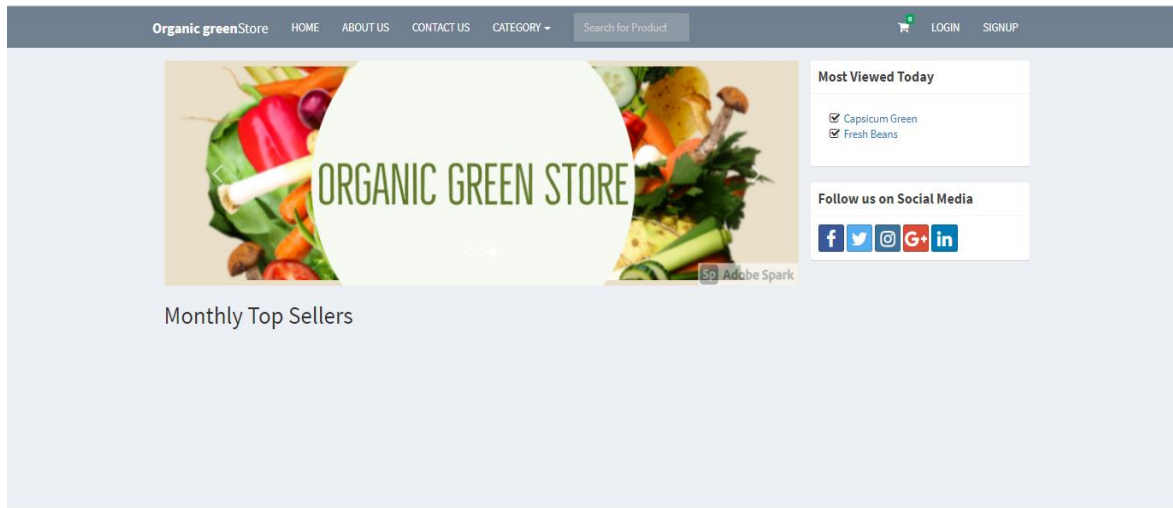
- ❖ In future we will provide an option for chatting through a buyer and seller can communicate with each other for the purpose of details for specific product.

Appendice S

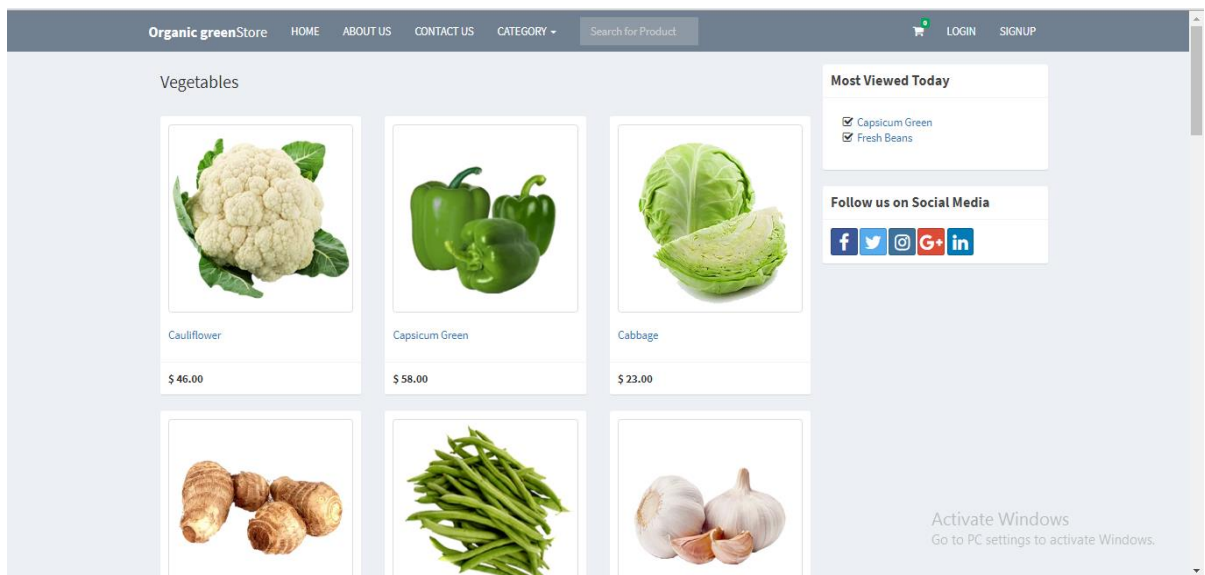
Appendix A: Organic Green Store







A.1. Web-Pages and Modules

A.1.1 Home(Index)

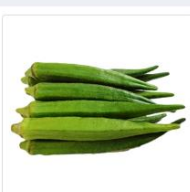







A.1.2 Products:







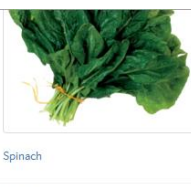
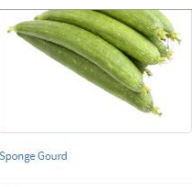
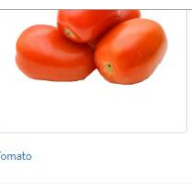



| | | |
|---|---|---|
|  <p>Ginger</p> <p>\$ 357.00</p> |  <p>Green Chillies</p> <p>\$ 58.00</p> |  <p>Cucumber</p> <p>\$ 48.00</p> |
|  <p>Beetroot</p> <p>\$ 64.00</p> |  <p>Carrot China</p> <p>\$ 63.00</p> |  <p>Green Coriander</p> <p>\$ 38.00</p> |

Activate Windows
Go to PC settings to activate Windows.

| | | |
|---|--|--|
|  <p>Lady Finger</p> <p>\$ 79.00</p> |  <p>Lemon</p> <p>\$ 180.00</p> |  <p>Mint</p> <p>\$ 19.00</p> |
|  <p>Onion Red</p> <p>\$ 79.00</p> |  <p>Peas</p> <p>\$ 63.00</p> |  <p>Potato</p> <p>\$ 38.00</p> |

Activate Windows
Go to PC settings to activate Windows.


| | | | |
|---|--|---|--|
|  <p>Radish</p> <p>\$ 25.00</p> |  <p>Round Brinjal</p> <p>\$ 45.00</p> |  <p>Round Gourd</p> <p>\$ 22.00</p> | <p>Activate Windows Go to PC settings to activate Windows.</p> |
|  <p>Spinach</p> <p>\$ 32.00</p> |  <p>Sponge Gourd</p> <p>\$ 50.00</p> |  <p>Tomato</p> <p>\$ 58.00</p> | |
|  <p>Spinach</p> <p>\$ 32.00</p> |  <p>Sponge Gourd</p> <p>\$ 50.00</p> |  <p>Tomato</p> <p>\$ 58.00</p> | |
|  <p>Turnip</p> <p>\$ 29.00</p> | | | |

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Activate Windows
Go to PC settings to activate Windows.
All rights reserved

Product Descriptions:

Organic greenStore [HOME](#) [ABOUT US](#) [CONTACT US](#) [CATEGORY](#) [LOGIN](#) [SIGNUP](#)



Beetroot

\$ 54.00

Category: [Vegetables](#)

Description:

Recent research claims that beetroot juice and beets can reduce blood pressure, increase blood flow, and improve athletic performance, lowering the risk of diabetes, and improving digestion.






About the product:

- Beets possess an acid called alpha-lipoic. This acid may help increase insulin sensitivity and lower glucose levels.
- Fresh beetroot contains enough fiber which is good for the digestive system.
- Fresh beetroot juice can improve the oxygen amount muscles consume during exercise.
- Some researchers found that fresh beetroot resist cancer cells mutation.
- Green leaves vegetables like beet provide good dietary nitrate.

Most Viewed Today

- Capsicum Green
- Fresh Beans
- Beetroot


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Organic greenStore [HOME](#) [ABOUT US](#) [CONTACT US](#) [CATEGORY](#) [LOGIN](#) [SIGNUP](#)



Lemon

\$ 180.00

Category: [Vegetables](#)

Description:

Fresh lemons content offers a great number of vitamins and minerals. Lemons are beneficial for digestion, heart, and losing weight. Lemons provide flavor to different drinks, sauces, and salads.

• Flavonoids in lemon content may help prevent ischemic stroke in women.

• Lemons could facilitate maintaining pressure levels.

• The oxidants in fresh lemon prevent the development of cancer cells.






• Vitamin C supports better health of the system of the skin.

• Vitamin C decreases the risk of asthma attacks.


Most Viewed Today

- Capsicum Green
- Fresh Beans
- Beetroot
- Lemon

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Capsicum Green

\$ 58.00

Category: [Vegetables](#)

Description:

Fresh capsicum vegetable is a good source of vitamin A, B, C, E, K, potassium, manganese, and fiber.






About the product:

- Fresh capsicum act as an anti-inflammation agent.
- Capsicum content contains tannins. Tannins help in treating diarrhea, microbial disorders, and dysentery.
- Flavonoids found in fresh capsicum help in heart diseases.
- Capsicum helps with diabetes and obesity.
- Capsicum helps in boosting immunity.


Most Viewed Today

- Capsicum Green
- Cauliflower
- Beetroot
- Fresh Beans
- Green Chillies
- Lemon

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Arvi

\$ 60.00

Category: Vegetables

Description:
By consuming Arvi vegetable you can improve your heart's health, boost immunity, improve vision, improve blood circulation, lose weight, reduce fatigue, improve the skin, delay the aging process, prevent cancer, improve digestive system, and control high blood sugar.

About the product:

- Vitamin E and magnesium are responsible to maintain healthy muscles.
- Antioxidants help in the aging process; it reduces the rate of aging in cells.
- To lose weight one should eat Arvi as it possesses fewer calories and many vitamins.
- It helps reduce fatigue so fresh Arvi vegetable is essential for athletes.
- Vitamins E and A present in Arvi have an excellent effect on the skin.

Most Viewed Today

- Capsicum Green
- Cauliflower
- Beetroot
- Arvi
- Fresh Beans
- Green Chillies
- Lemon


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Cucumber

\$ 48.00

Category: Vegetables

Description:
Fresh cucumbers are pleasant to eat and relieve dehydration in hot weather. It is a member of the Cucurbitaceae family. Cucumbers contain many nutrients, are low in calories, sodium, cholesterol, and fat.

About the product:

- Fresh cucumbers can help resist dehydration in a workout or hot weather.
- Vitamin K present in cucumber helps in the strengthening of bones and blood clotting.
- Cucumber helps in skincare, apply a mixture of yogurt and cucumber juice on the face to reduce blackheads and dry skin.
- It may help in inflammation.
- The fiber found in cucumber helps prevent diabetes.

Most Viewed Today

- Capsicum Green
- Cauliflower
- Fresh Beans
- Beetroot
- Arvi
- Green Chillies
- Cucumber
- Lemon


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Ginger

\$ 357.00

Category: Vegetables

Description:
Ginger is a famous home remedy for stomach pain, nausea, and other health issues. Antioxidants and other vitamins in ginger help treat inflammation, arthritis, and different types of infection. Researchers have also found its role to reduce the risk of cancer, diabetes, and many health problems.

About the product:

- Enzymes found in ginger help expel gasses causing discomfort.
- Researchers found that 2 grams of heated or raw ginger reduced muscle pain by 25%.
- Consuming ginger may help reduce inflammation.
- Some evidence shows that ginger can help with cardiovascular diseases.
- Ginger acts as an excellent antioxidant.

Most Viewed Today

- Capsicum Green
- Cauliflower
- Fresh Beans
- Beetroot
- Arvi
- Ginger
- Green Chillies
- Cucumber
- Lemon


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Mint

\$ 19.00

Category: [Vegetables](#)

Description:
Organic Green mint herb is used fresh and dried in food. Manufacturers of candy, beauty products, toothpaste, and gum often use mint oil. Fresh mint flavor helps reduce sugar and sodium intake in food.

About the product:

- Fresh mint helps as a remedy in an upset stomach.
- Rosmarinic acid is an antioxidant and anti-inflammation agent which helps in different allergies.
- The menthol found in mint may help in the common cold.
- It may help in digestive tract disorder.
- May improve brain function by consuming mint plant oil.

Most Viewed Today

- Capsicum Green
- Cauliflower
- Fresh Beans
- Beetroot
- Arvi
- Ginger
- Green Chillies
- Cucumber
- Carrot China
- Lemon


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Peas

\$ 95.00

Category: [Vegetables](#)

Description:
Green peas are part of the legume family, which produces seeds inside. Chickpeas, lentils, peanuts, and beans are also legumes. Organic Green fresh green peas are rich in protein, which is why they are so filling.

About the product:

- Green peas have several properties that control blood sugar levels.
- Fresh green peas are rich in fiber which helps indigestion.
- Green peas control blood pressure which controls diabetes.
- Peas also promote heart health.

Most Viewed Today

- Capsicum Green
- Cauliflower
- Fresh Beans
- Beetroot
- Arvi
- Ginger
- Green Chillies
- Cucumber
- Carrot China
- Lemon


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Item added to cart



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Round Brinjal

\$ 45.00

Category: [Vegetables](#)

Description:
Brinjal also known as eggplant, is a nightshade family plant. They are found in different varieties, sizes, and colors. Fresh brinjal vegetable is low in calories and rich in nutrients. One serving provides a 5 percent daily requirement of thiamine, vitamin B6, manganese, and fiber.

About the product:

- Vitamins and minerals in brinjal may benefit heart health.
- The fiber in brinjal vegetable maintain cholesterol level.
- Anthocyanin found in the skin of brinjal vegetable protect brain cells.
- Dietary fiber helps to maintain body weight.

Most Viewed Today

- Capsicum Green
- Cauliflower
- Fresh Beans
- Beetroot
- Arvi
- Ginger
- Green Chillies
- Cucumber
- Carrot China
- Lemon

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YOUR CART

| | Photo | Name | Price | Quantity | Subtotal |
|--------------|-------|------------|----------|----------|------------------|
| | | Vegetables | \$ 95.00 | - 1 + | \$ 95.00 |
| | | Vegetables | \$ 45.00 | - 1 + | \$ 45.00 |
| | | Vegetables | \$ 58.00 | - 1 + | \$ 58.00 |
| | | Vegetables | \$ 29.00 | - 1 + | \$ 29.00 |
| | | Vegetables | \$ 40.00 | - 1 + | \$ 40.00 |
| Total | | | | | \$ 267.00 |

You need to [Login](#) to checkout.

Most Viewed Today

- Capsicum Green
- Cauliflower
- Fresh Beans
- Beetroot
- Avil
- Ginger
- Green Chillies
- Cucumber
- Carrot China
- Lemon

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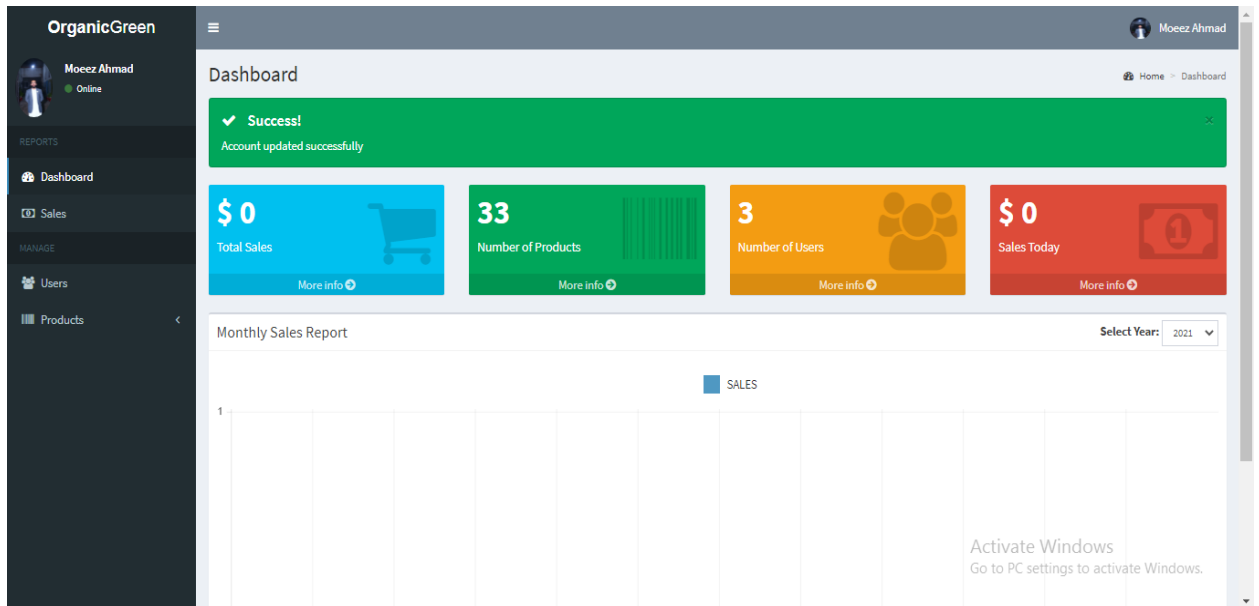
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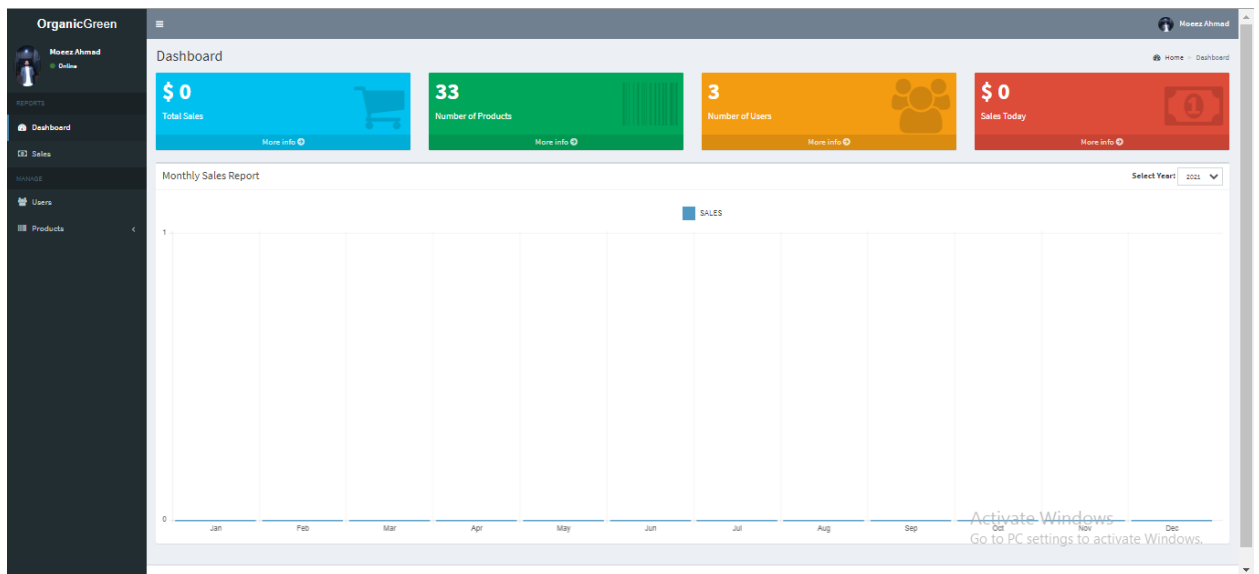
Appendix B: Administrator Manual

Admin

Dashboard:



Monthly Sales History:



Sales History:

OrganicGreen Moeez Ahmad Online

Home > Sales

06/03/2021 - 06/03/2021 [Print](#)

Show 10 entries Search:

| Date | Buyer Name | Transaction# | Amount | Full Details |
|----------------------------|------------|--------------|--------|--------------|
| No data available in table | | | | |

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Users:

OrganicGreen Moeez Ahmad Online

Home > Users

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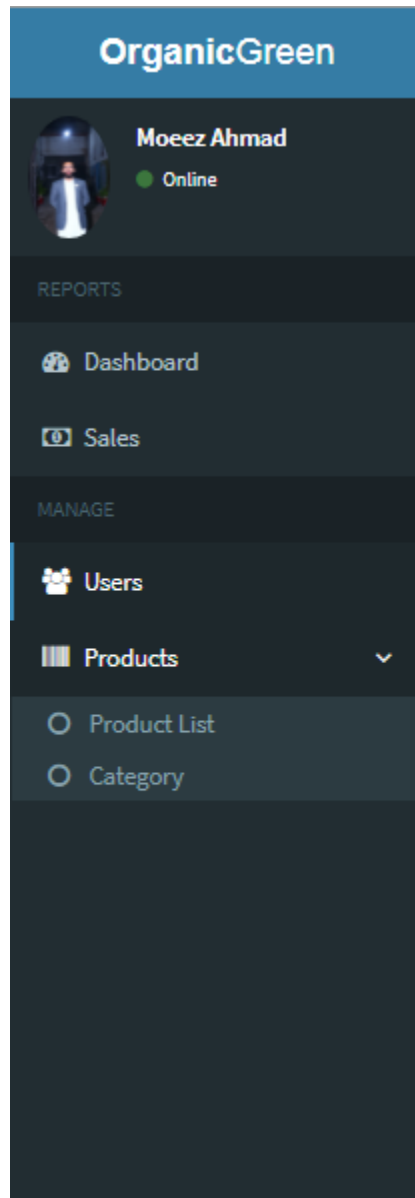
Show 10 entries Search:

| Photo | Email | Name | Status | Date Added | Tools |
|-------|--|---------------|--------|--------------|--|
| | moeezahmed13@gmail.com | Moeez Ahmad | active | Jun 03, 2021 | Cart Edit Delete |
| | ayesharazzaq@gmail.com | Ayesha Razzaq | active | Jun 03, 2021 | Cart Edit Delete |

Showing 1 to 2 of 2 entries [Previous](#) [1](#) [Next](#)

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Navigation Drawer:



Product Lists:

| Name | Photo | Description | Price | Views Today | Tools |
|----------------|-------|------------------------|-----------|-------------|---|
| Arvi | | Q View | \$ 60.00 | 1 | Edit Delete |
| Beetroot | | Q View | \$ 54.00 | 2 | Edit Delete |
| Cabbage | | Q View | \$ 23.00 | 0 | Edit Delete |
| Capsicum Green | | Q View | \$ 58.00 | 6 | Edit Delete |
| Carrot China | | Q View | \$ 63.00 | 1 | Edit Delete |
| Cauliflower | | Q View | \$ 46.00 | 2 | Edit Delete |
| Cucumber | | Q View | \$ 48.00 | 1 | Edit Delete |
| Fresh Beans | | Q View | \$ 80.00 | 2 | Edit Delete |
| Garlic China | | Q View | \$ 187.00 | 0 | Edit Delete |
| Ginger | | Q View | \$ 357.00 | 1 | Edit Delete |

Product Categories:

| Category Name | Tools |
|---------------|---|
| Fruits | Edit Delete |
| Vegetables | Edit Delete |

Showing 1 to 2 of 2 entries

Previous 1 Next

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