

**PROJECT REPORT ON**  
**GREENCART**



**Submitted by**  
**SAMUAL RAJU(210021029018)**

Partial fulfillment of the requirements for the award of the Degree of  
**BSc. Computer Science**  
Of  
**Mahatma Gandhi University**  
Kottayam-686560

**DEPARTMENT OF COMPUTER SCIENCE**  
**ARAFA COLLEGE OF ARTS AND SCIENCE**  
(Affiliated to Mahatma Gandhi University, Kottayam)  
**PEZHAKKAPPILLY P.O, MUVATTUPUZHA 686673**

**2021-2024**

**ARAF A COLLEGE OF ARTS AND SCIENCE**

(Affiliated to Mahatma Gandhi University, Kottayam)

**PEZHAKKAPPILLY P.O, MUVATTUPUZHA-686673**



**DEPARTMENT OF COMPUTER SCIENCE**

**CERTIFICATE**

This is to certify that the project entitled “**GREENCART**” submitted in partial fulfillment for the award of **BSC COMPUTER SCIENCE** is a bonafide report of the project done by **SAMUAL RAJU(210021029018)** during the year 2021-2024.

**Mrs. SACHITHRA NS**  
**(Head of the Department)**

**Mrs. NISSANA PS**  
**(Project in charge)**

**INTERNAL EXAMINER**

**EXTERNAL EXAMINER**

## **DECLARATION**

I here by declare that the project report entitled "**GREENCART**" submitted by me to **Arafa College of Arts & Science**, Pezhakkappilly P.O, Muvattupuzha, in partial fulfillment of the requirement for the award of the degree of **BSC COMPUTER SCIENCE** in **Department of Computer Science** is a record of bonfide project work carried out by me under the guidance of **Mrs. Nissana PS**. I further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.

Place: Pezhakkappilly

**Samual Raju**

Date:

## **ACKNOWLEDGMENT**

Apart from the efforts of mine, the success of the project depends largely on the encouragement and guidelines of many others. I take this opportunity to express my gratitude to the people who have been instrumental in the successful completion of this project.

First and foremost, I praise the God almighty for the grace he showed on me during my studies as well as day to day life. I would like to express a deep sense of gratitude to Principal **Mr. Shajahan M.S.** and Head of the Department **Asst.Prof. Sachithra NS** for their cordial support as they gave the permission to use all required equipment and the necessary material to complete the project.

I would like to extend my sincerest gratitude to **Mrs. Nissana PS** for her guidance and supervision as well as for providing necessary information regarding the project and also for the support in completing the project.

Finally, I also extend my heartiest thanks to my parents, friends and well-wishers for being with me and extending encouragement throughout the project.

## TABLE OF CONTENTS

<b>1. INTRODUCTION.....</b>	<b>1-4</b>
<b>2. SYSTEM ANALYSIS.....</b>	<b>5-7</b>
1. EXISTING SYSTEM.....	6
1. LIMITATIONS OF THE EXISTING SYSTEM .....	6
2. PROPOSED SYSTEM.....	7
1. ADVANTAGES OF THE PROPOSED SYSTEM.....	7
<b>3. FEASIBILITY ANALYSIS.....</b>	<b>8-10</b>
1. ECONOMIC FEASIBILITY .....	9
2. TECHNICAL FEASIBILITY .....	10
3. OPERATIONAL FEASIBILITY.....	10
<b>4. SYSTEM REQUIREMENT SPECIFICATION .....</b>	<b>11-16</b>
1. HARDWARE CONFIGURATION .....	12
2. SOFTWARE CONFIGURATION .....	12
3. LANGUAGE AND TOOLS USED.....	13-16
1. ABOUT THE FRONT END .....	13-14
2. ABOUT THE BACK END .....	14-16
3. ABOUT THE OPERATING SYSTEM .....	16
<b>5. SYSTEM DESIGN.....</b>	<b>17-32</b>
1. INPUT DESIGN .....	18
2. OUTPUT DESIGN .....	19
3. DATABASE DESIGN .....	19
1. NORMALIZATION.....	20
2. TABLE DESIGN AND STRUCTURE .....	21-26
4. DATAFLOW DIAGRAM .....	27-32
<b>6. CODING .....</b>	<b>33-50</b>
1. CODE FOR SHOP REGISTRATION .....	34-39
2. CODE FOR ADDING PLANTS.....	40-50
<b>7. SYSTEM TESTING .....</b>	<b>51-54</b>
1. UNIT TESTING.....	52-53
2. INTEGRATION TESTING .....	53
3. VALIDATION TESTING .....	53
4. USER ACCEPTANCE TESTING.....	54

<b>7.5 OUTPUT TESTING .....</b>	<b>54</b>
<b>8. SYSTEM IMPLEMENTATION .....</b>	<b>55-56</b>
<b>9. MAINTENANCE .....</b>	<b>57-58</b>
<b>10. SECURITY MEASURES.....</b>	<b>59-61</b>
1. SYSTEM SECURITY.....	60
2. SYSTEM INTEGRITY.....	60
3. PRIVACY .....	60
4. CONFIDENTIALITY .....	61
<b>11. SCOPE &amp; FUTURE ENHANCEMENTS .....</b>	<b>63</b>
1. FUTURE SCOPE.....	63
2. SCOPE FOR FUTURE ENHANCEMENTS.....	63
<b>12. CONCLUSION .....</b>	<b>64-65</b>
<b>13. REFERENCES.....</b>	<b>66-67</b>
<b>14. APPENDIX .....</b>	<b>68-76</b>
1. SCREENSHOTS .....	69-76

# INTRODUCTION

## 1.INTRODUCTION

“**GREENCART**” is aimed at developing an e commerce website which coordinate and unify sales of plants. The aim of the proposed system is to simplify the process of buying and selling various plant products. This is an internet based system that can be accessed from anywhere. The existing system for plant sales comprises of thousands of shops which are non cooperative and scattered throughout, with many of them facing lack of sales despite having quality products on offer. The proposed system unifies all of the shops under one web based application.

## PURPOSE

The purpose of “**GREENCART**” is to let shops across the state to be registered under one website. Which allows users to choose from a wide number of shops providing required product with satisfactory prices. This system also ensure consistent profit for all registered shops since users are quickly redirected towards the shop providing the product user has chosen.

## MODULES

The system has four modules: -

1. Admin
2. Shop
3. User
4. Guest

## ADMIN

“ **GREENCART** ” is managed by admin. It is the job of admin to let shops to register as well as users. Admin perform verification function also. Admin can perform following functions.

- Add a new district or Delete an existing district.
- Add a new city or Delete an existing city.
- Add a new plant category or Delete an existing plant category.
- Add a new complaint type or Delete an existing complaint type.
- Verify shops
- Generate report
- Manage feedbacks.
- Manage complaints.
- Manage profile.

## SHOP

Shops register themselves to the “ **GREENCART** ” they specify available plants, their details , pricing and other stock details. They perform following functions

- Add plants and manage plant price and stock.
- Upload plant gallery photos.
- Manage orders.
- Manage user complaints.
- Manage profile.
- Send feedbacks.
- Send complaints.

## USER

Users of “ **GREENCART** ” are the registered users of the application. It is strictly required for users to register in order to avail maximum benefits of the features provided by “ **GREENCART** ” . They perform following functions

- View plants.
- Purchase plants.
- View orders
- Cancel orders
- Review the product
- Download order bill
- Manage profile
- Send complaints
- Send feedbacks

## GUEST

The guest in the “**GREENCART**” can perform the following functions: -

- View the homepage of the website.
- Login
- Register as a user or shop.

# **SYSTEM ANALYSIS**

## 2. SYSTEM ANALYSIS

System analysis is a step-by-step process used to identify and develop or acquire the software need to control the processing of specific application. System analysis is a continuing activity of stages of the systems development. System analysis is the process of gathering and interpreting facts, diagnosing problems and using the facts to improve the system. The outputs from the organization are traced through the various processing that the input phases through in the organization. This involves gathering information and using structured tools for analysis. A detailed study of this process must be made by various techniques like interviews, questionnaires, etc.

System Development Life Cycle is a process in which system analyst, software engineers and programmers built the system. System analysis is simply finding out what happen in the existing system deciding what changes are to be made when new features are added.

It is necessary to have such a good system analysis and then by a project development cycle so that the project can be completed in a strictly manner and able to finish with the desired time. The analyst must be so careful about his responsibilities.

As the next step the current system analysis is done which identifies the real need of establishing our project in the environment, its opportunities and constraints, etc... All of the steps discussed above are collectively known as the system analysis.

## 1. EXISTING SYSTEM

Today online shopping regarding plants only, is an unorganized and difficult process. Require long time searching over individual websites, that too only the top most recommended ones during a quick web search. And those shops and their websites having most cyber presence. This system fails to tap into the potential of unification of these shops and their web profiles.

### 1. LIMITATIONS OF THE EXISTING SYSTEM

- Difficult process
- Time consuming
- Few results and products.
- Doubtful quality
- Unorganized sector overall

## 2. PROPOSED SYSTEM

The primary objective of the proposed system design is to overcome the drawbacks of the existing system. The proposed “**GREENCART**” is developed in order to unify all the individual shops, within one website which makes searching for a product much more easy and more effective. “**GREENCART**” contains all the info about all the registered shops and their products inventory which makes it a one stop destination for all purchases regarding plants. Users can search for a particular plant or plant type in “**GREENCART**” and all the shops including the nearest ones which provide the product are listed as the search result. From which the user can narrow down to the shop which he/she want to make a deal with, considering factors like lowest price, quality and others. This one website allows the users to get a uniform search result for the products across a wide area. From local places to, between districts. Users Can order plants from any district with this.

### 1. ADVANTAGES OF THE PROPOSED SYSTEM

- Wide range of product to choose from.
- Lowest price.
- Quality products.
- User friendly.
- Simplified process.

# **FEASIBILITY ANALYSIS**

### **3. FEASIBILITY ANALYSIS**

Feasibility studies are almost always conducted where large sums are at stake. It is also called feasibility analysis. Feasibility analysis is designed to determine whether or not, in the given project environment, a project will be successful. A feasibility analysis may be conducted for a project with an emphasis on financial viability, environmental integrity, cultural acceptability, or political practicability. This analysis is performed to choose the system that meets the performance requirements at least cost. The most essential tasks performed by a feasibility analysis are the identification and description of candidate systems, the evaluation of candidate systems, and the selection of the best candidate systems. The best system means the system that meets performance requirements at least cost.

Three key combinations are involved in the feasibility study and they are: -

- Technical feasibility
- Economic feasibility
- Operational feasibility

#### **3.1 ECONOMIC FEASIBILITY**

Economic analysis is most frequently used for the evaluation of the effectiveness of the system. More commonly known as cost/benefit analysis the procedure is to determine the benefit and saving that are expected from a system and compare them with costs, decisions is made to design and implement the system.

This part of the feasibility study gives the top management the economic justification for the new system. This is an important input to the management because very often the top management does not like to get confounded by the various technicalities that bound to be associated with a project of this kind. A simple economic analysis that gives the actual comparison of costs and benefits is much more meaningful in such cases. It is economically feasible since it requires only a single person to operate the whole system thus reducing the cost to operate the system.

In the system, the organization is most satisfied by economic feasibility. Because if the organization implements this system, it need not require any additional hardware resources as well as it will be saving a lot of time.

### **3.2 TECHNICAL FEASIBILITY**

Technical feasibility centers on the existing manual system of the test management process and to what extent it can support the system. According to the feasibility analysis procedure, the technical feasibility of the system is analyzed and the technical requirements such as software facilities, procedure, and inputs are identified. It is also one of the important phases of the system development activities. It is technically feasible since the whole system is designed with the latest technologies like PHP and SQL Server which are the most recent technologies to develop web-based systems and design databases.

The system offers greater levels of user-friendliness combined with greater processing speed. Therefore, the cost of maintenance can be reduced. Since, the processing speed is very high and the work is reduced in the maintenance point of view management convince that the project is operationally feasible.

### **3.3 OPERATIONAL FEASIBILITY**

It is operational feasible, since the system is providing an attractive user interface to the operator/end-user, so he feels very easy to work on it. Response to operator/end-user is very fast and very good. Since, as we mentioned above that it requires much less amount of cost, it uses computer work, so it is very fast to operate and it is very easy for user to work on it.

# **SYSTEM REQUIREMENT SPECIFICATION**

## 4. SYSTEM REQUIREMENT SPECIFICATION

### 1. HARDWARE CONFIGURATION

Selection of hardware configuration is very important task related to the software development. The processor should be powerful to handle all the operations. The hard disk should have the sufficient capacity to solve the database and the application.

Minimum hardware requirements:-

- Processor : i3 5<sup>th</sup> Gen 2.0 GHz
- Memory : 4 GB
- Hard Disk : 512 GB SSD
- Keyboard : Standard Keyboard
- Mouse : Optical Mouse
- Monitor : 14 inch Color Monitor
- Graphics Card : Not needed

### 2. SOFTWARE CONFIGURATION

- Front end : HTML 5, CSS 3, JavaScript
- Back end : PHP 8.1.10
- Database : MySQL
- IDE : Visual Studio Code
- Server : XAMPP, Apache
- Operating System : Windows, Linux, Mac

### **3. LANGUAGE AND TOOLS USED**

#### **1. ABOUT THE FRONT END**

The system is created using HTML, CSS and JavaScript as front end.

##### **HTML**

HTML is a computer language devised to allow Website creation. These Websites can then be viewed by anyone else connected to the Internet. It is relatively easy to learn, with the basics being accessible to most people in one sitting; and quite powerful in what it allows you to create. It is constantly undergoing revision and evolution to meet the demands and requirements of the growing Internet audience under the direction of the W3C, the organization charged with designing and maintaining the language.

HTML consists of a series of short codes typed into a text-file by the site author — these are the tags. The text is then saved as a html file, and viewed through a browser, like Internet Explorer or Netscape Navigator. This browser reads the file and translates the text into a visible form, hopefully rendering the page as the author had intended. Writing your own HTML entails using tags correctly to create your vision. You can use anything from a rudimentary text-editor to a powerful graphical editor to create HTML pages.

##### **CSS**

Stands for “Cascading Style Sheet”. Cascading style sheets are used to format the layout of Web pages. They can be used to define text styles, table sizes, and other aspects of Web pages that previously could only be defined in a page's HTML.

CSS helps Web developers create a uniform look across several pages of a Web site. Instead of defining the style of each table and each block of text within a page's HTML, commonly used styles need to be defined only once in a CSS document. Once the style is defined in cascading style sheet, it can be used by any page that references the CSS file. Plus, CSS makes it easy to change styles across several pages at once. For example, a Web developer may want to increase the default text size from 10pt to 12pt for fifty pages of a

website. If the pages all reference the same style sheet, the text size only needs to be changed on the style sheet and all the pages will show the larger text.

While CSS is great for creating text styles, it is helpful for formatting other aspects of Web page layout as well. For example, CSS can be used to define the cell padding of table cells, the style, thickness, and color of a table's border, and the padding around images or other objects. CSS gives Web developers more exact control over how Web pages will look than HTML does. This is why most Web pages today incorporate cascading style sheets.

### **JavaScript**

JavaScript is a dynamic computer programming language. It is lightweight and most commonly used as a part of Web pages, whose implementations allow client-side script to interact with the user and make dynamic pages. It is an interpreted programming language with object-oriented capabilities.

JavaScript was first known as Live Script, but Netscape changed its name to JavaScript, possibly because of the excitement being generated by Java. JavaScript made its first appearance in Netscape 2.0 in 1995 with the name Live Script. The general-purpose core of the language has been embedded in Netscape, Internet Explorer, and other Web browsers.

#### **4.3.2 ABOUT THE BACK END**

The system is created with PHP as backend.

### **PHP**

PHP started out as a small open source project that evolved as more and more people found out how useful it was. Rasmus Lerdorf unleashed the first version of PHP way back in 1994.

PHP is a must for students and working professionals to become a great Software Engineer specially when they are working in Web Development Domain. The key advantages of learning PHP are: PHP is a recursive acronym for "PHP: Hypertext Preprocessor".

PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites. It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.

PHP is pleasingly zippy in its execution, especially when compiled as an Apache module on the Unix side. The MySQL server, once started, executes even very complex queries with huge result sets in record-setting time. PHP supports a large number of major protocols such as POP3, IMAP, and LDAP.

## XAMPP

XAMPP is one of the widely used cross-platform web servers, which helps developers to create and test their programs on a local webserver. It was developed by the Apache Friends, and its native source code can be revised or modified by the audience. It consists of Apache HTTP Server, MariaDB, and interpreter for the different programming languages like PHP and Perl. It is available in 11 languages and supported by different platforms such as the IA-32 package of Windows & x64 package of macOS and Linux.

XAMPP is an abbreviation where *X stands for Cross-Platform, A stands for Apache, M stands for MySQL, and the Ps stand for PHP and Perl*, respectively. It is an open-source package of web solutions that includes Apache distribution for many servers and command-line executables along with modules such as Apache server, MariaDB, PHP, and Perl.

XAMPP helps a local host or server to test its website and clients via computers and laptops before releasing it to the main server. It is a platform that furnishes a suitable environment to test and verify the working of projects based on Apache, Perl, MySQL database, and PHP through the system of the host itself. Among these technologies, Perl is a programming language used for web development, PHP is a backend scripting language, and MariaDB is the most vividly used database developed by MySQL.

## MySQL

MySQL is a relational database management system based on the Structured Query Language, which is the popular language for accessing and managing the records in the database. MySQL is open-source and free software under the GNU license. It is supported by Oracle Company.

MySQL is currently the most popular database management system software used for managing the relational database. It is open-source database software, which is supported by Oracle Company. It is fast, scalable, and easy to use database management system in comparison with Microsoft SQL Server and Oracle Database. It is commonly used in conjunction with PHP scripts for creating powerful and dynamic server-side or web-based

enterprise applications. Many small and big companies use MySQL. MySQL supports many Operating Systems like Windows, Linux, MacOS, etc. with C, C++, and Java languages.

MySQL is a Relational Database Management System (RDBMS) software that provides many things, which are as follows:

- It allows us to implement database operations on tables, rows, columns, and indexes.
- It defines the database relationship in the form of tables (collection of rows and columns), also known as relations.
- It provides the Referential Integrity between rows or columns of various tables.
- It allows us to update the table indexes automatically.
- It uses many SQL queries and combines useful information from multiple tables for the end-users.

#### 4.3.3 ABOUT THE OS

The OS used is Windows Operating System. We can also develop it in Linux and Mac OS also.

#### Windows OS

Windows is a graphical operating system developed by Microsoft. It allows users to view and store files, run the software, play games, watch videos, and provides a way to connect to the internet. It was released for both home computing and professional works.

It was released for both home computing and professional functions of Windows on 10 November 1983. Later, it was released on many versions of Windows as well as the current version, Windows 11.

Microsoft introduced the first version as 1.0. In 1993, the first business-oriented version of Windows was released, which is known as Windows NT 3.1. Then it introduced the next versions, Windows 3.5, 4/0, and Windows 2000. When the XP Windows was released by Microsoft in 2001, the company designed its various versions for a personal and business environment. It was designed based on standard x86 hardware, like Intel and AMD processor. Accordingly, it can run on different brands of hardware, such as HP, Dell, and Sony computers, including home-built PCs.

PHP requires at least Windows 2008/Vista. Either 32-Bit or 64-bit (AKA X86 or X64). PHP does not run on Windows RT/WOA/ARM). As of PHP 7.2.0 Windows 2008 and Vista are no longer supported.

# **SYSTEM DESIGN**

## 5. SYSTEM DESIGN

The system design develops the architectural detail required to build a system or product. As in the case of any systematic approach, this software too has undergone the best possible design phase fine tuning all efficiency, performance and accuracy levels. The first step in system designing is to determine how the output is to be produced and in what format. Samples of the output and input are also presented. In the second step, input data and master files are to be designed to meet requirements of the proposed output. The processing phases are handled through program construction and testing, including a list of the programs needed to meet the system's objectives and complete documentation.

### 1. INPUT DESIGN

Input design is a part of overall system design, which requires very careful attention. Generally, software is prone to error if the user operating on it is not aware of constraints. A usual procedure for eliminating errors is carried out in the application program itself. However, there are cases where the

data redundancy and consistency are violated. The goal of designing input data entry as easy, logical and free from errors as possible. In entering data, operators need to know the following :-

- The allocated space for each field.
- Field sequence, which must match that in the source document.
- The format in which data fields are entered.

When we approach input data design, we design the source documents that capture the data and then select the media used to enter them into computer or the system. While entering the data the application program checks for errors. All the input screens used have strict validation for null checking and the data type wherever necessary

## 5.2 OUTPUT DESIGN

Output is the most important direct source of information to the user and to the management. Efficient and eligible output design should improve the system's relationship with the user and help in decision-making.

Output design generally deals with the results generated by the system i.e., reports. These reports can be generated from stored or calculated values. Reports are displayed either as screen window preview or printed form. Most end users will not actually operate the information system or enter data through a workstation, but they will use the output from the system.

Output from the computer system is required primarily to communicate the results of processing of the user. They are also used to provide a permanent copy of these results for later consultation.

## 5.3 DATABASE DESIGN

A database is a repository of information. It is a collection of interrelate data stored with minimum redundancy to serve many user quick and efficiently. The general objective us take information access easy, quick, inexpensive and flexible for the users. In this project, we are mainly concentrated into relational databases. Relational databases stores data in tables, with in turn, are composed of rows also known as fields.

The overall objective in the development of database technology has been to treat data as an organizational resource and as an integrated whole. DBMS allow data to be protected and organized separately from other resources. Database is an integrated collection of data. The most significant form of data as seen by the programmers is data as stored on the direct access storage devices. This is the difference between logical and physical data.

Database files are the key source of information into the system. It is the process of designing database files, which are the key source of information to the system. The files should be properly designed and planned for collection, accumulation, editing and retrieving the required information.

The organization of data in database aims to achieve three major objectives: -

- Data integration.
- Data integrity.
- Data independence.

The proposed system stores the information relevant for processing in the MySQL SERVER database. This database contains tables, where each table corresponds to one particular type of information. Each piece of information in table is called a field or column. A table also contains records, which is a set of fields. All records in a table have the same set of fields with different information. There are primary key fields that uniquely identify a record in a table. There are also fields that contain primary key from another table called foreign keys.

## 1. NORMALIZATION

Normalization is a technique of separating redundant fields and breaking up a large table into smaller ones. It is also used to avoid insertion, deletion and updating anomalies. All the tables have been normalized up to the third normal form. In short, the rules for each of the three normal forms are as below.

- First normal form

A relation is said to be in 1NF if all the underlying domain of attributes contain simple individual values.

- Second normal form

The 2NF is based on the concept of full functional dependency. A relation said to be in 2NF if and only if it is in 1NF and every non-key attribute is fully functionally dependent on candidate key of the table.

- Third normal form

The 3NF is based on the concept of transitive dependency. A relation in 2NF is said to be in 3NF if every non-key attribute is non-transitively.

### 5.3.2 TABLE DESIGN AND STRUCTURE

The general theme behind the database is to handle information as an integrated whole. A database is a collection of interrelated data stored with minimum redundancy to serve many quickly and effectively. The database is a collection of stored data organized in such a way that all the data requirements are satisfied by the database.

The aim of database design is to improve the existing system situation. A number of database files were designed to hold the data requirements for running their systems.

#### **1. TABLE NAME: `tbl_admin`**

**TABLE DESCRIPTION: Table for admin**

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
admin_id	int	11	Primary Key	Admin ID
admin_name	varchar	100	Not null	Admin's name
admin_email	varchar	100	Not null	Admin's email
admin_password	varchar	100	Not null	Admin's password

#### **2. TABLE NAME: `tbl_shop`**

**TABLE DESCRIPTION: Table for shop**

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
shop_id	Int	11	Primary key	Shop ID
shop_name	varchar	100	Not null	Shop's name
shop_address	varchar	100	Not null	Shop's address
shop_pincode	Varchar	100	Not null	Shop's pin code
city_id	int	11	Foreign key	Represent city
shop_photo	varchar	100	Not null	Shop's photo
shop_proof	varchar	100	Not null	Shop's proof
shop_email	varchar	100	Not null	Shop's email
shop_contactno	varchar	100	Not null	Shop's contact number
shop_password	varchar	100	Not null	Shop's password
shop_status	tinyint	1	Not null	Shop's status
shop_doj	date		Not null	Shop's date of join

### 3. TABLE NAME: **tbl\_user**

#### TABLE DESCRIPTION: Table for user

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
user_id	int	11	Primary key	User ID
user_name	varchar	100	Not null	User's name
user_gender	varchar	10	Not null	User's gender
user_dob	date		Not null	User's date of birth
user_address	varchar	500	Not null	User's address
user_pincode	int	11	Not null	User's pin code
user_photo	varchar	500	Not null	User's photo
user_contactno	varchar	30	Not null	User's contact number
user_email	varchar	100	Not null	User's email
user_password	varchar	100	Not null	User's password
city_id	int	11	Foreign key	Represent city

### 4. TABLE NAME: **tbl\_city**

#### TABLE DESCRIPTION: Table for city

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
city_id	int	11	Primary key	City ID
city_name	varchar	100	Not null	City' name
city_del_status	tinyint	1	Not null	City delete status
district_id	int	11	Foreign key	Represent district

### 5. TABLE NAME: **tbl\_district**

#### TABLE DESCRIPTION: Table for district

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
district_id	int	11	Primary key	District ID
district_name	varchar	100	Not null	District's name
district_del_status	tinyint	4	Not null	District delete status

## 6. TABLE NAME: **tbl\_plant**

**TABLE DESCRIPTION: Table for plant**

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
plant_id	int	11	Primary key	Plant ID
plant_name	varchar	100	Not null	Plant's name
plant_description	varchar	900	Not null	Plant's description
plant_photo	varchar	100	Not null	Plant's photo
plant_price	double		Not null	Plant's price
plant_stock	int	11	Not null	Plant's stock
plant_rating	double		Not null	Plant's rating
plant_del_status	tinyint	1	Not null	Plant delete status
plant_category_id	int	11	Foreign key	Represent plant category
shop_id	int	11	Foreign key	Represent shop

## 7. TABLE NAME: **tbl\_plant\_category**

**TABLE DESCRIPTION: Table for plant category**

FIELD NAME	DATA TYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
plant_category_id	int	11	Primary key	Plant category ID
plant_category_name	varchar	100	Not null	Plant's category name
Plant_category_del_status	varchar	900	Not null	Plant category delete status

## 8. TABLE NAME: **tbl\_plant\_gallery**

**TABLE DESCRIPTION: Table for plant gallery**

FIELD NAME	DATA TYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
plant_gallery_id	int	11	Primary key	Plant gallery ID
plant_gallery_photo	varchar	100	Not null	Plant's gallery photo
plant_gallery_del_status	tinyint	4	Not null	Plant gallery delete status
plant_id	int	11	Foreign key	Represent plant

## 9. TABLE NAME: **tbl\_plant\_rating**

**TABLE DESCRIPTION:** Table for plant rating

FIELD NAME	DATA TYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
plant_rating_id	int	11	Primary key	Plant rating ID
plant_rating_user_review	varchar	500	Not null	Plant's rating user review
user_id	int	11	Foreign key	Represent user
plant_id	int	11	Foreign key	Represent plant
plant_rating_star	Int	11	Not null	Plant rating star type

## 10. TABLE NAME: **tbl\_cart**

**TABLE DESCRIPTION:** Table for shopping cart

FIELD NAME	DATA TYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
cart_id	int	11	Primary key	Cart ID
cart_quantity	int	11	Not null	Cart quantity
cart_del_status	tinyint	1	Not null	Cart delete status
plant_id	int	11	Foreign key	Represent plant
user_id	Int	11	Foreign key	Represent user

## 11. TABLE NAME: **tbl\_order**

**TABLE DESCRIPTION:** Table for orders

FIELD NAME	DATA TYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
order_id	int	11	Primary key	Order ID
order_number	int	11	Not null	Order number
order_place	varchar	100	Not null	Order place
order_status	tinyint	4	Not null	Order status
order_date	date		Not null	Order date
cart_id	int	11	Foreign key	Represent cart

## 12. TABLE NAME: **tbl\_feedback**

**TABLE DESCRIPTION:** Table for feedback

FIELD NAME	DATA TYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
feedback_id	int	11	Primary key	Feedback ID
feedback_content	varchar	100	Not null	Feedback content
feedback_rating	Int	11	Not null	Feedback rating
feedback_time	varchar	100	Not null	Feedback time
feedback_status	tinyint	4	Not null	Feedback status
user_id	int	11	Foreign key	Represent user
shop_id	int	11	Foreign key	Represent shop

## 13. TABLE NAME: **tbl\_admin\_complaint**

**TABLE DESCRIPTION:** Table for admin complaints

FIELD NAME	DATA TYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
admin_complaint_id	int	11	Primary key	Admin complaint ID
admin_complaint_content	varchar	500	Not null	Admin complaint content
admin_complaint_reply	varchar	500	Not null	Admin complaint reply
admin_complaint_time	varchar	100	Not null	Admin complaint time
admin_complaint_del_status	tinyint	4	Not null	Admin complaint delete status
complaint_type_id	int	11	Foreign key	Represent complaint type
user_id	int	11	Foreign key	Represent user
shop_id	int	11	Foreign key	Represent shop

## **14. TABLE NAME: tbl\_shop\_complaint**

**TABLE DESCRIPTION: Table for shop complaints**

FIELD NAME	DATA TYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
shop_complaint_id	int	11	Primary key	Shop complaint ID
shop_complaint_content	varchar	500	Not null	Shop complaint content
shop_complaint_reply	varchar	500	Not null	Shop complaint reply
shop_complaint_time	varchar	100	Not null	Shop complaint time
shop_complaint_del_status	tinyint	4	Not null	Shop complaint delete status
complaint_type_id	int	11	Foreign key	Represent complaint type
user_id	int	11	Foreign key	Represent user
shop_id	int	11	Foreign key	Represent shop

## **15. TABLE NAME: tbl\_complaint\_type**

**TABLE DESCRIPTION: Table for complaint types**

FIELD NAME	DATA TYPE	SIZE	CONSTRAINTS	FIELD DESCRIPTION
complaint_type_id	int	11	Primary key	Complaint type ID
complaint_type_name	varchar	100	Not null	Complaint type name
complaint_type_status	tinyint	4	Not null	Complaint type status
complaint_type_del_status	tinyint	4	Not null	Complaint type delete status

## 5.4 DATAFLOW DIAGRAM

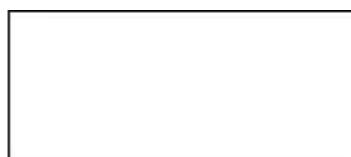
To start the system design, something analogue to the architecture blueprint as a starting point to design is required. It is a way to focus on functions rather than physical implementation. One such tool is a DFD.

Structured analysis is a set of techniques and graphical tools that help the analyst to develop a new kind of system specification that is easily understandable to the user. DFDs show the major decompositions of the system functions and their interfaces. The DFD is graphic and presents a picture of what is being specified and is conceptually easy to understand presentation of the application.

One important feature of DFDs is that it is logical rather than physical. The elements of the system do not depend on vendors or hardware. They specify in a precise, concise manner the working of the system and how it hangs together.

- The process should be named and numbered for easy references.
- The direction of flow is from top to bottom and from left to right
- When a process is imported in the lower levels details, they must be numbered
- Process and data flow names have the first letter of each word must be a capital letter

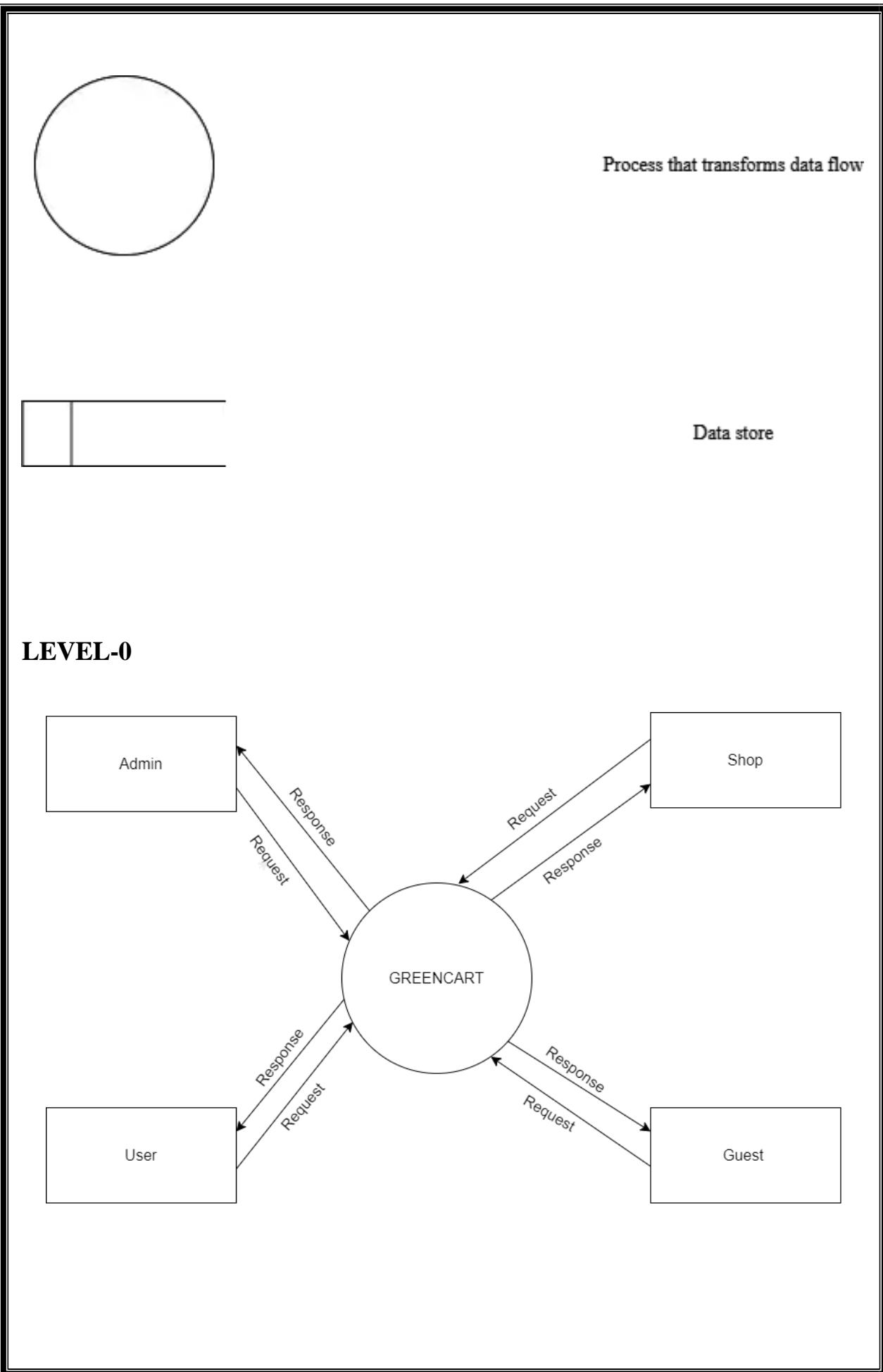
The symbols used in DFD are shown below: -



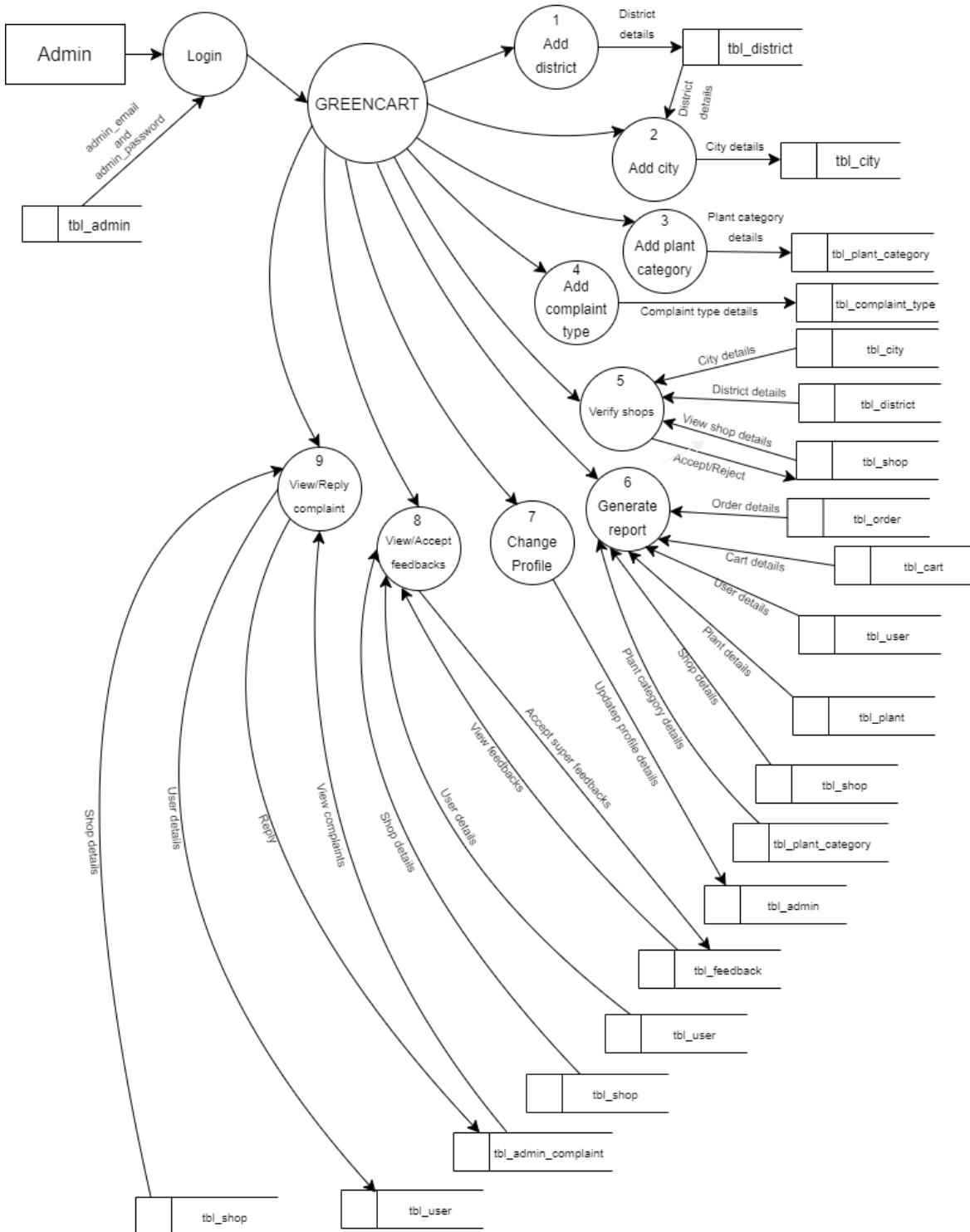
Source or Destination of Data



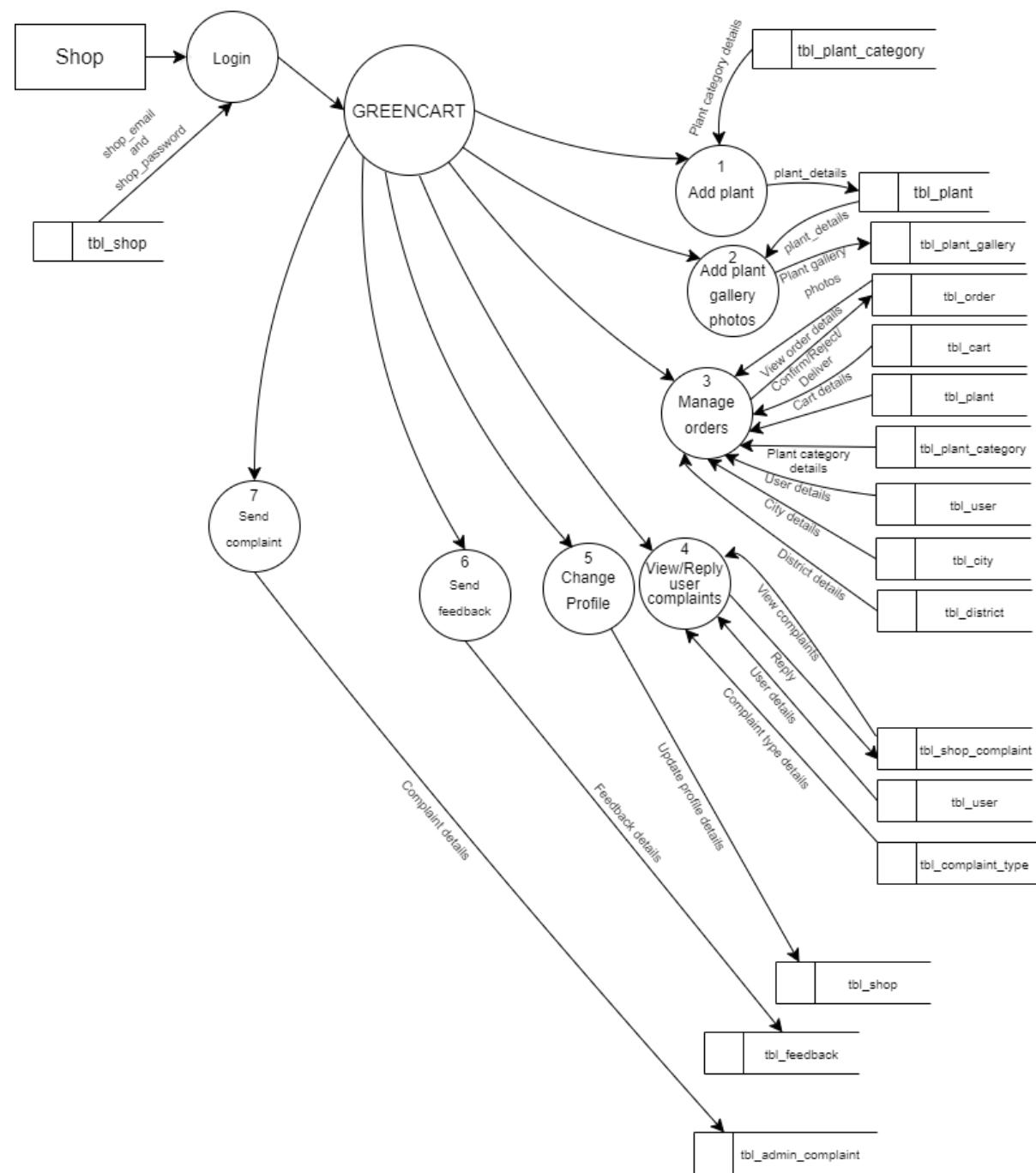
Data flow



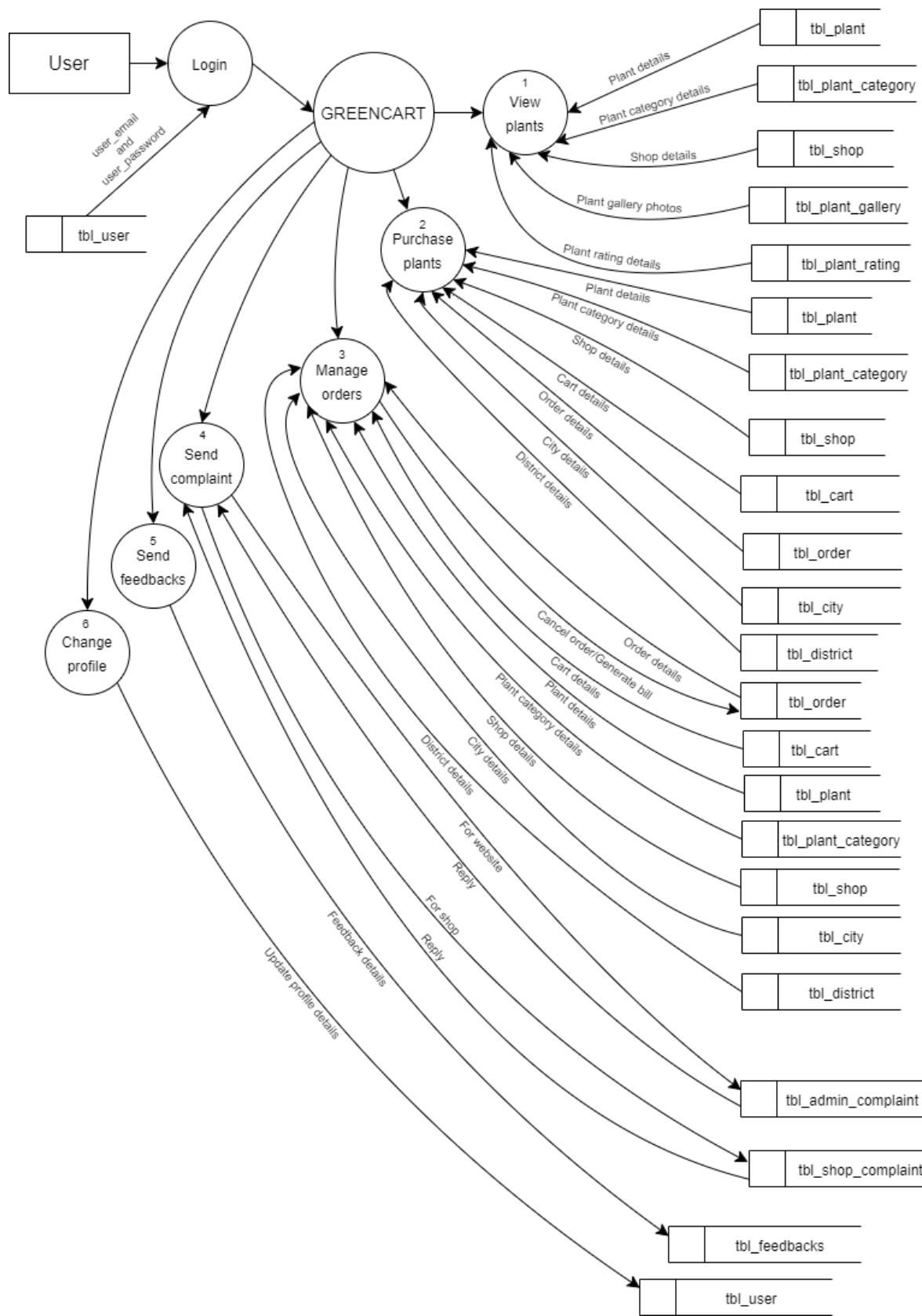
## LEVEL-1 FOR ADMIN

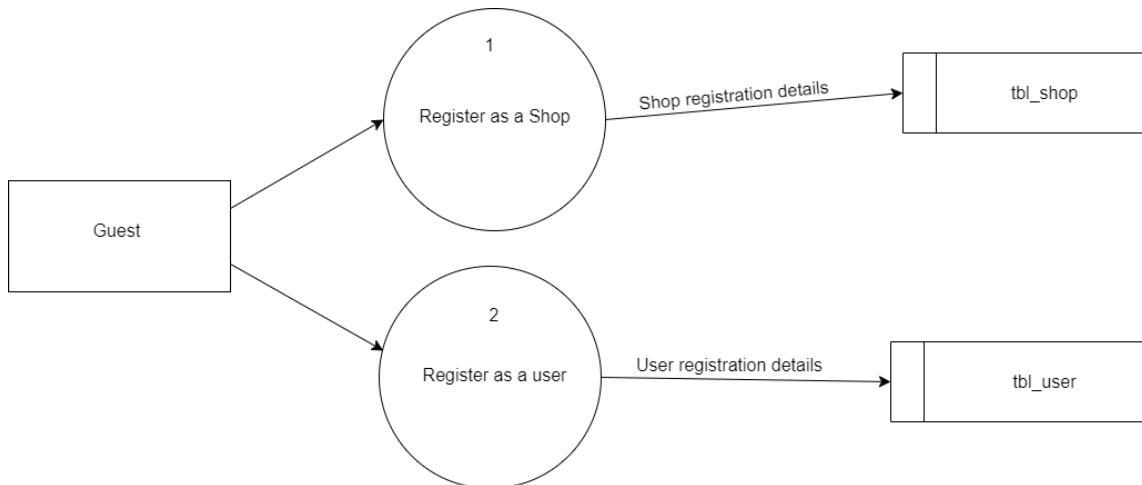


## LEVEL-1 FOR SHOP



## LEVEL-1 FOR USER



**LEVEL-1 FOR GUEST**

# CODING

## 6. CODING

## **6.1 CODE FOR SHOP REGISTRATION**

```

<?php
include("../Assets/Connection/connection.php");
session_start();
if (isset($_POST['btn_submit'])) {
    $shop_name = $_POST['txt_shop_name'];
    $shop_address = $_POST['txt_shop_address'];
    $shop_city = $_POST['sel_city'];
    $time = time() . date('m-d-Y');
    $shop_contactno = $_POST['txt_shop_contactno'];
    $shop_email = $_POST['txt_shop_email'];
    $shop_password = $_POST['txt_shop_password'];
    $shop_cpassword = $_POST['txt_shop_cpassword'];

    $file_name_photo = $time . $_FILES['shop_photo']['name'];
    $temp_file_name_photo = $_FILES['shop_photo']['tmp_name'];

    $file_name_proof = $time . $_FILES['shop_proof']['name'];
    $temp_file_name_proof = $_FILES['shop_proof']['tmp_name'];
    $shop_doj = date('d-m-y');
    $shop_pincode = $_POST['txt_shop_pincode'];

    if ($shop_password != $shop_cpassword) {
        ?>
        <script>
            alert("Password does not match");
        </script>
        <?php
    } else {
        $insQuery = "insert into
tbl_shop(shop_name,shop_address,city_id,shop_photo,shop_proof,shop_contactno,shop_email,shop_password,shop_doj,shop_pincode)
values('$shop_name','$shop_address','$shop_city','$file_name_photo','$file_name_proof','$shop_contactno','$shop_email','$shop_password','$shop_doj','$shop_pincode')";

        $selQuery = "select * from tbl_shop where shop_email = '$shop_email'";
        $result = $conn->query($selQuery);
        if ($result->num_rows) {
            ?>
            <script>
                alert('Email already exists');
            </script>
        }
    }
}

```

```
<?php
} else {
    if ($conn->query($insQuery)) {
        move_uploaded_file($temp_file_name_photo, './Assets/Files/Shop/Photo/' .
$file_name_photo);
        move_uploaded_file($temp_file_name_proof, './Assets/Files/Shop/Proof/' .
$file_name_proof);
    }
    <script>
        alert('Successfully registered');
    </script>
    <?php
        $selQuery = "select * from tbl_shop where shop_email = '$shop_email' and
shop_password = '$shop_password'";
        $result = $conn->query($selQuery);
        $data = $result->fetch_assoc();
        $_SESSION['sid'] = $data['shop_id'];
    >
    <script>
        window.location = './Shop/ShopHomePage.php';
    </script>
<?php
}
}
}
?>
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="utf-8">
    <title>GREENCART - shop registration</title>
    <meta content="width=device-width, initial-scale=1.0" name="viewport">
    <meta content="Free HTML Templates" name="keywords">
    <meta content="Free HTML Templates" name="description">
    <link href="../Assets//Template//Login//assets/css/bootstrap.min.css" rel="stylesheet">
    <link href="../Assets//Template//Login//assets/css/font-awesome.min.css"
rel="stylesheet">
    <link href="../Assets//Template//Login//assets/css/style.css" rel="stylesheet">

    <link href="../Assets//Template//MainTemplate//img/favicon.ico" rel="icon">
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link
    href="https://fonts.googleapis.com/css2?family=Poppins&family=Roboto:wght@700&
display=swap" rel="stylesheet">
```

```

<link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.4.1/font/bootstrap-
icons.css" rel="stylesheet">
    <link href="../Assets//Template//MainTemplate//lib/flaticon/font/flaticon.css"
rel="stylesheet">

<link
href="../Assets//Template//MainTemplate//lib/owlcarousel/assets/owl.carousel.min.css"
rel="stylesheet">

<link href="../Assets//Template//MainTemplate//css/bootstrap.min.css"
rel="stylesheet">
<link href="../Assets//Template//MainTemplate//css/style.css" rel="stylesheet">
    <link rel="stylesheet" href="../Assets//CSS//Guest//userRegistration.css">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-
datepicker/1.4.1/css/bootstrap-datepicker3.css" />

</head>

<body>

<br>
<nav class="navbar navbar-expand-lg bg-white navbar-light shadow-sm py-3 py-lg-0
px-3 px-lg-0">
    <a href="index.html" class="navbar-brand ms-lg-5">
        <h1 class="m-0 text-uppercase" style="color:#548302;"><i class="bi fs-1 text-
primary me-3"></i>GREENCART</h1>
    </a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarCollapse">
    <span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse" id="navbarCollapse">
    <div class="navbar-nav ms-auto py-0">
        <a href="../index.php" class="nav-item nav-link">Home</a>
        <a href="../login.php" class="nav-item nav-link">Login</a>
        <div class="nav-item dropdown">
            <a href="#" class="nav-link active dropdown-toggle" data-bs-
toggle="dropdown">Register</a>
            <div class="dropdown-menu m-0">
                <a href="../userRegistration.php" class="dropdown-item">User</a>
                <a href="../ShopRegistration.php" class="dropdown-item">Shop</a>
            </div>
        </div>
        <a href="contact.html" class="nav-item nav-link nav-contact text-white px-5 ms-lg-
5">Contact
            <i class="bi bi-arrow-right"></i></a>

```

```

</div>
</div>

</nav>

<section class="d-flex justify-content-center"
style="background:url('../Assets//Img//login.jpg');background-repeat: no-repeat;">
    <form class="form-control" style="width:85%;margin-top: 5%;margin-bottom: 5%; background:rgb(255,255,255); padding:5%;" method="post"
enctype="multipart/form-data">
        <p class="h3 text-center" style="color: #548302;">SHOP
        REGISTRATION</p>
        <div class="mb-3">
            <label for="">Name: </label>
            <input type="text" class="form-control" placeholder="Enter shop name"
name="txt_shop_name" required>
        </div>
        <div class="mb-3">
            <label class="control-label" for="date">Address</label>
            <textarea class="form-control" name="txt_shop_address" placeholder="Enter
shop address" rows="5" required></textarea>
        </div>
        <div class="mb-3">
            <label for="">Pincode: </label>
            <input type="number" class="form-control" placeholder="Enter Pincode"
name="txt_shop_pincode" required>
        </div>
        <div class="mb-3">
            <label class="control-label" for="date" name="sel_district">District</label>
            <select class="form-select" required name="sel_district"
onChange="getCity(this.value)">
                <option value="0">---Select District---</option>
                <?php
                    $selQuery = "select * from tbl_district";
                    $result = $conn->query($selQuery);
                    while ($row = $result->fetch_assoc()) {
                ?>
                <option value=<?php echo $row['district_id']; ?>>
                    <?php echo $row['district_name']; ?>
                </option>
                <?php
                }
                ?>
            </select>
        </div>

```

```
<div class="mb-3" id="get_city">
</div>
<div class="mb-3">
    <label for="formFile" class="form-label">Shop Photo</label>
    <input type="file" class="form-control" id="formFile" name="shop_photo" required>
</div>
<div class="mb-3">
    <label for="formFile" class="form-label">Shop Proof</label>
    <input type="file" class="form-control" id="formFile" name="shop_proof" required>
</div>
<div class="mb-3">
    <label for="">Contact number: </label>
    <input type="number" class="form-control" placeholder="Enter Contact" name="txt_shop_contactno" required>
</div>
<div class="mb-3">
    <label for="">Email: </label>
    <input type="email" class="form-control" placeholder="Enter Email" name="txt_shop_email" required>
</div>
<div class="mb-3">
    <label for="">Password: </label>
    <input type="password" class="form-control" placeholder="Enter Password" name="txt_shop_password" required>
</div>
<div class="mb-3">
    <label for="">Confirm Password: </label>
    <input type="password" class="form-control" placeholder="Confirm Password" name="txt_shop_cpassword" required>
</div>
<center>
    <button type="submit" class="btn" style="background: #548302;color:#fff;" name="btn_submit">Submit</button>
</center>
</form>
</section>
<?php include('..//Assets//Template//MainTemplate//Guest//footer.php'); ?>
<!-- JavaScript Libraries -->
<script src="https://code.jquery.com/jquery-3.4.1.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0/dist/js/bootstrap.bundle.min.js"></script>
<script src="..//Assets//Template//MainTemplate//lib//easing/easing.min.js"></script>
```

```
<script  
src="../Assets//Template//MainTemplate//lib/waypoints/waypoints.min.js"></script>  
<script  
src="../Assets//Template//MainTemplate//lib/owlcarousel/owl.carousel.min.js"></script  
>  
  
<script src="../Assets//Template//MainTemplate//js/main.js"></script>  
  <script src="../Assets//JS//Guset//userRegistration.js"></script>  
  <!-- Include jQuery -->  
  <script type="text/javascript" src="https://code.jquery.com/jquery-  
1.11.3.min.js"></script>  
  
<script type="text/javascript" src="https://cdnjs.cloudflare.com/ajax/libs/bootstrap-  
datepicker/1.4.1/js/bootstrap-datepicker.min.js"></script>  
  <script src="../Assets//JS//Ajax//jQuery.js"></script>  
  <script>  
    $(document).ready(function() {  
      var date_input = $('input[name="date"]'); //our date input has the name "date"  
      var container = $('.bootstrap-iso form').length > 0 ? $('.bootstrap-iso  
form').parent() : "body";  
      date_input.datepicker({  
        format: 'mm/dd/yyyy',  
        container: container,  
        todayHighlight: true,  
        autoclose: true,  
      })  
    })  
  </script>  
  <script>  
    function getCity(did) {  
      $.ajax({  
        url: '../Assets//AjaxPages//AjaxCity.php?did=' + did,  
        success: function(result) {  
  
          $("#get_city").html(result);  
        }  
      });  
    }  
  </script>  
</body>  
  
</html>
```

## 6.2 CODE FOR ADDING PLANTS

```

<?php
ob_start();
session_start();
include("../Assets/Connection/connection.php");
if (!$_SESSION['sid']) {
    ?>
    <script>
        window.location = './index.php'
    </script>
    <?php
}
if (isset($_POST['btn_save'])) {
    if ($data['shop_status'] == true && $data['shop_del_status'] == false) {
        $plant_name = $_POST['txt_plant_name'];
        $plant_category = $_POST['sel_plant_category'];
        $plant_description = $_POST['txt_plant_description'];
        $plant_price = $_POST['txt_plant_price'];
        $time = time() . date('m-d-Y');
        $file_name_photo = $time . $_FILES['file_plant_photo']['name'];
        $temp_file_name_photo = $_FILES['file_plant_photo']['tmp_name'];

        $insQuery = "insert into tbl_plant(plant_name,plant_category_id, plant_photo,
plant_description, plant_price,shop_id)
values('$plant_name','$plant_category','$file_name_photo','$plant_description','$plant_price," . $data['shop_id'] . ")";
        if ($conn->query($insQuery)) {
            move_uploaded_file($temp_file_name_photo, '../Assets/Files/Plant/' .
$file_name_photo);
        ?>
        <script>
            alert('Saved')
            window.location = './ShopPlants.php'
        </script>
        <?php
    }
} else if ($data['shop_status'] == true && $data['shop_del_status'] == true) {
    ?>
    <script>
        alert("This feature is not available.Because your shop's account is temporarily
blocked")
        window.location = './ShopPlants.php'
    </script>
    <?php
}

```

```
else {
    ?>
    <script>
        alert('This has not verified')
        window.location = './ShopPlants.php'
    </script>
    <?php
}
}

$selQuery = "select * from tbl_plant where shop_id =" . $data['shop_id'];
$result = $conn->query($selQuery);
$count = $result->num_rows;
$i = 1;
while ($i <= $count) {
    if (isset($_POST["btn_gsubmit$i"])) {
        $time = time() . date('m-d-Y');
        $plantId = $_POST["btn_gsubmit$i"];
        $file_name = $time . $_FILES["file_plant_gallery$i"]["name"];
        $tmp_file_name = $_FILES["file_plant_gallery$i"]["tmp_name"];
        $insQuery = "insert into tbl_plant_gallery(plant_gallery_photo,plant_id)
values('$file_name','$plantId')";
        if ($conn->query($insQuery)) {
            move_uploaded_file($tmp_file_name, '../Assets/Files/PlantGallery/' .
$file_name);
            ?>
            <script>
                alert('Gallery updated')
                window.location = './ShopPlants.php'
            </script>
            <?php
        }
    }
    $i++;
}
?>
```

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="utf-8">
    <title>GREENCART-Shop plants</title>
    <meta content="width=device-width, initial-scale=1.0" name="viewport">
    <meta content="" name="keywords">
    <meta content="" name="description">
    <link href='https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css' rel='stylesheet'>
    <link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">

    <link href="img/favicon.ico" rel="icon">

    <link rel="preconnect" href="https://fonts.googleapis.com">
        <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
        <link href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@400;600&family=Roboto:wght@500;700&display=swap" rel="stylesheet">
    <link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.10.0/css/all.min.css" rel="stylesheet">
        <link href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.4.1/font/bootstrap-icons.css" rel="stylesheet">

    <link href="..Assets//Template//AdminTemplate//darkpan-1.0.0//lib/owlcarousel/assets/owl.carousel.min.css" rel="stylesheet">
    <link href="..Assets//Template//AdminTemplate//darkpan-1.0.0//lib/tempusdominus/css/tempusdominus-bootstrap-4.min.css" rel="stylesheet" />
    <link href="..Assets//Template//AdminTemplate//darkpan-1.0.0//css/bootstrap.min.css" rel="stylesheet">
    <link rel="stylesheet" href="..Assets//Template//AdminTemplate//darkpan-1.0.0//css/style.css">
```

```
<link rel="stylesheet"
      href="https://fonts.googleapis.com/css2?family=Material+Symbols+Outlined:opsz,wght,
      FILL,GRAD@24,400,0,0" />
<link rel="stylesheet" href="../Assets//CSS//Admin//HomePage.css">
<link rel="stylesheet" href="../Assets/CSS/Shop/ShopFeedback.css">
</head>
<body style="background: #548302;">
<div class="container-fluid position-relative d-flex p-0">
    <?php include('../Assets/components/Shop/SideBar.php') ?>
    <div class="content" style="background: #548302;">
        <?php include('../Assets/components/Shop/NavBar.php') ?>
<form action="" method="post" enctype="multipart/form-data">
    <div class="container-fluid">
        <div class="row h-100 align-items-center justify-content-center">
            <div class="col-12 col-sm-8 col-md-6 col-lg-5 col-xl-4"
                style="width:90%;">
                <div class="rounded p-4 p-sm-5 my-4 mx-3"
                    style="background:#548302;">
                    <select required name="sel_plant_category" id="" class="form-select
                    mb-3">
                        style="background: #fff;text-align: center; border: none;">
                        <option value="">-----Select Plant category-----</option>
                        <?php
                            $selQuery = "select * from tbl_plant_category";
                            $result = $conn->query($selQuery);
                            while ($row = $result->fetch_assoc()) {
                                if ($row['plant_category_del_status'] == false) {
                                    ?>
                                    <option value="<?php echo $row['plant_category_id'] ?>">
                                        <?php echo $row['plant_category_name'] ?>
                                    </option>
                                    <?php
                                }
                            }
                        </select>
                </div>
            </div>
        </div>
    </div>
</form>
</div>
</body>
```

```
?>
    </select>
    <div class="mb-3">
        <input type="text" class="form-control" id="floatingText"
            placeholder="Enter plant name" style="background: #fff;" name="txt_plant_name"
            required>
    </div>
    <div class="mb-3">
        <textarea rows="5" type="text" class="form-control" id="floatingText"
            placeholder="Enter plant description" style="background: #fff;" name="txt_plant_description" required></textarea>
    </div>
    <div class="mb-3">
        <label for="" style="color: #fff;">&ampnbspChoose plant photo</label>
        <input type="file" accept="image/*" class="form-control" id="floatingText"
            style="background: #fff;" name="file_plant_photo" required>
    </div>
    <div class="mb-3">
        <input type="number" class="form-control" id="floatingText"
            placeholder="Enter plant price" style="background: #fff;" name="txt_plant_price"
            required>
    </div>
    <button type="submit" class="btn py-3 w-100 mb-4"
        style="color: #fff; background: #273d01;" name="btn_save">Save</button>
    </div>
    </div>
</div>
</form>
```

```

<div class="container-fluid pt-4 px-4">
    <div class="text-center rounded p-4" style="background: #fff;">
        <div class="d-flex align-items-center justify-content-between mb-4">
            <h6 class="mb-0" style="color: #548302;font-size: 18pt;">Plants</h6>
        </div>
        <div class="table-responsive">
            <table class="table text-start align-middle table-bordered table-hover mb-0">
                <thead>
                    <tr class="" style="color: #548302;">
                        <th scope="col">Sl no</th>
                        <th scope="col">Plant Name</th>
                        <th scope="col">Plant photo</th>
                        <th scope="col">Plant description</th>
                        <th scope="col">Plant Category</th>
                        <th scope="col">Plant gallery</th>
                        <th scope="col">Price</th>
                        <th scope="col">stock</th>
                        <th scope="col" colspan="2">Action</th>
                    </tr>
                </thead>
                <tbody>
                    <?php
                        $selQuery = "select * from tbl_plant p inner join tbl_shop s on
                        p.shop_id = s.shop_id left join tbl_plant_category c on
                        p.plant_category_id=c.plant_category_id where s.shop_id ='" . $data['shop_id'] . "' order
                        by c.plant_category_name";
                        $result = $conn->query($selQuery);
                        $count = $result->num_rows;
                        $tempCount = 0;
                        if ($result->num_rows) {
                            $i = 0;
                            while ($row = $result->fetch_assoc()) {
                                $i++;
                                if ($row['plant_del_status'] == false) {
                                    ?>

```

```
<tr>
    <td>
        <?php echo $i ?>
    </td>
    <td>
        <?php echo $row['plant_name'] ?>
    </td>
    <td></td>
    <td>
        <?php echo $row['plant_description'] ?>
    </td>
    <td>
        <?php echo $row['plant_category_name'] ?>
    </td>
    <td align="center">
        <?php
            $selQuery2 = "select * from tbl_plant_gallery where
plant_id=" . $row['plant_id'];
            $result2 = $conn->query($selQuery2);
            if ($result2->num_rows) {
                while ($row2 = $result2->fetch_assoc()) {
                    ?
                    
                    <?php
                }
            }
        ?>
    </td>
```

```

<td>
    Rs.<input type="number" style="border: none;color: #023683;" id="" value=<?php echo $row['plant_price'] ?>
    placeholder="Enter price" onchange="addPlantPrice(<?php echo $row['plant_id'] ?>,this.value)">
</td>

<td>
    <input type="number" style="border: none;color: #023683;" id="" value=<?php echo $row['plant_stock'] ?>
    placeholder="Enter stock" onchange="addPlantStock(<?php echo $row['plant_id'] ?>,this.value)">
</td>
<td>
    <form method="post" enctype="multipart/form-data">
        <input type="file" accept="image/*" name="file_plant_gallery<?php echo $i ?>" id="" required /><br><br>
        <button type="submit" name="btn_gsubmit<?php echo $i ?>" class="btn btn-primary btn-sm" value=<?php echo $row['plant_id'] ?>">Upload</button>
    </form>
</td>
<td>
    <a class="btn btn-sm btn-primary" href=".ShopPlants.php?pidStock=<?php echo $row['plant_id'] ?>">Delete</a>
</td>
</tr>

```

```
<?php

    } else {
        $tempCount++;
    }
}

if ($tempCount == $count) {
    ?>
<tr>
    <th colspan="7" style="text-align: center;">No data
available</th>
</tr>
<?php
}
} else {
    ?>
<tr>
    <th colspan="7" style="text-align: center;">No data
available</th>
</tr>
<?php
}
?>
</tbody>
</table>
</div>
</div>
</div>

<?php include("../Assets/components/ShopFeedback.php"); ?>
</div>
<script src="https://code.jquery.com/jquery-3.4.1.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0/dist/js/bootstrap.bundle.min.js"><scri
pt>
```

```
<script src="https://cdn.jsdelivr.net/npm/jquery@3.6.4/dist/jquery.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
<script src="../Assets//Template//AdminTemplate//darkpan-1.0.0//lib/chart/chart.min.js"></script>
<script src="../Assets//Template//AdminTemplate//darkpan-1.0.0//lib/easing/easing.min.js"></script>
<script src="../Assets//Template//AdminTemplate//darkpan-1.0.0//lib/waypoints/waypoints.min.js"></script>
<script src="../Assets//Template//AdminTemplate//darkpan-1.0.0//lib/owlcarousel/owl.carousel.min.js"></script>
<script src="../Assets//Template//AdminTemplate//darkpan-1.0.0//lib/tempusdominus/js/moment.min.js"></script>
<script
src="../Assets//Template//AdminTemplate//darkpan-1.0.0//lib/tempusdominus/js/moment-timezone.min.js"></script>
<script
src="../Assets//Template//AdminTemplate//darkpan-1.0.0//lib/tempusdominus/js/tempusdominus-bootstrap-4.min.js"></script>
<script src="../Assets//Template//AdminTemplate//darkpan-1.0.0//js/main.js"></script>
<script src="../Assets//JS//Admin//HideViewShop.js"></script>
<script src="../Assets//JS//Ajax//jQuery.js"></script>
<script>
    function addPlantStock(pid, pstock) {
        if (isNaN(pstock)) {
            alert('Invalid')
        } else {
            $.ajax({
                url: '../Assets/AjaxPages/AjaxAddPlantStock.php?pid=' + pid + '¶pstock='
                + pstock,
            })
        }
    }

```

```
function addPlantPrice(pid, pprice) {  
    if (isNaN(pprice)) {  
        alert('Invalid')  
    } else {  
        $.ajax({  
            url: './Assets/AjaxPages/AjaxAddPlantPrice.php?pid=' + pid + '&&pprice=' + pprice,  
            })  
    }  
}  
</script>  
<img src="" alt="">  
</body>  
  
</html>  
  
<?php ob_flush(); ?>
```

# **SYSTEM TESTING**

## 7. SYSTEM TESTING

Software testing is a critical element of the software development cycle. The testing is essential for ensuring the quality of the software developed and represents the ultimate view of specification, design and code generation. Software testing is defined as the process by which one detects the defects in the software. Testing is a set of activities that work towards the integration of entire computer-based system.

A good test case is one that has a high probability of finding an as-yet undiscovered error. A successful test is one such uncovers or finds such errors. If testing is conducted successfully, it will uncover errors in the software. It also demonstrates that software functions are being performed according to specifications and also behavioral and performance requirements are satisfied. For this, test plans have to be prepared. The implementation of a computer system requires that test data has to be prepared and that all the elements in the system are tested in a planned and efficient manner. Nothing is complete without testing, as it is vital success of the system.

### TESTING OBJECTIVES

There are several rules that can serve as testing objectives. They are: -

- Testing is process of executing a program and finding a bug. A good test case is one that has a high probability of finding an undiscovered.
- A successful test is one that uncovers an undiscovered error.

If testing is conducted successfully according to the objectives as stated above, it would uncover errors in the software. Also testing demonstrates that software functions appear to be working according to the specification, that performance requirements appear to have been met.

### 7.1 UNIT TESTING

Unit testing focuses verification effort on the smallest unit of the software design, the module this is known as module testing. Since the proposed system has modules, the testing is individually performed on each module.

Using the details description as a guide, important control paths are tested to uncover errors within the boundary of the modules. This testing was carried out during programming

stage itself. In This testing step each module is found to be working satisfactorily as regards to the expected output from the module. In our system, we want to check the information like whether the inputs are saved to back end correctly. So every form includes this testing because we want to maintain our database because information like document to be saved, the personal information, security features are so sensitive and should check it perfectly by each module from the beginning. These are checked in the programming step itself.

## 7.2 INTEGRATION TESTING

Data can be test across an interface, one module can have adverse effect on another, sub function when combined may not produced the desired function Integration testing is a systematic technique for constructing the program structure while at the same time conducting test to uncover errors associated within the interface. The objective is to take unit tested modules and built a program structure that has been dictated by design. All modules are combined in this testing step. The entire program is tested as a whole. Correction is difficult at this stage because the isolation of causes is complicated by the vast expense of the program. Thus in the integration testing step all the errors uncover are corrected for the next testing step. Primarily we have met with several errors like data save and table linking. These are corrected well.

## 7.3 VALIDATION TESTING

At the culmination of integration testing, software is completely assembled as a package. Interfacing errors have been uncovered and corrected and a final series of software test-validation testing begins. Validation testing can be defined in many ways, but a simple definition is that validation succeeds when the software functions in manner that is reasonably expected by the user. Software validation is achieved through a series of tests that demonstrate conformity with requirement. After validation test has been conducted, one of two conditions exists.

- The function or performance characteristics confirm to specifications and are accepted.
- A validation from specification is uncovered and a deficiency created deviation or error discovered at this step in this project is corrected prior to completion of the project with the help of the user. Thus, the proposed system under consideration has been tested by using validation testing and found to be working satisfactorily.

## 7.4 USER ACCEPTANCE TESTING

User acceptance of a system is the key factor for the success of any system. The system under consideration is tested for user acceptance by constantly keeping in touch with the prospective system users at the time of developing and making of hardware management software system and the user acceptance testing is completed successfully.

## 7.5 OUTPUT TESTING

After performing the validation testing, the next step is output testing of the proposed system, since no system could be useful if it does not produce the required output in the specific format. The output generated by the system under consideration is tested by asking the users about the format required by them. Here the output is considered in two ways:

- Screen
- Printed format

The output form on the screen found to be correct as the format designed according to the user needs. For the hard copy, the output comes out as per the specification by the user. Hence, output testing does not match result in any correction in system.

# **SYSTEM IMPLEMENTATION**

## 8. SYSTEM IMPLEMENTATION

Implementation is the final stage and it's an important phase. It involves the individual programming; system testing, user training and the operational running of developed proposed system that constitutes the application subsystems. One major task of preparing for implementation is education of users, which should really have been taken place much earlier in the project when they were being involved in the investigation and design work. During the implementation phase system actually takes physical shape. In order to develop a system implemented, planning is very essential. The implementation phase of the software development is concerned with translating design specifications into source code.

The implementation phase ends with an evaluation of the system after placing it into operation for a period of time. Implementation is the third phase of the system process. In order to achieve the objectives and the expected performance the system has been developed in a highly interactive and user-friendly manner.

### **Implementation Plans**

The major activities in implementation plan are cost estimation, schedule and milestone determination, project staffing, quality control plans, and controlling and monitoring plans.

The implementation plan involves the following:-

- Test system with sample data
- Detection and correction of errors
- Make the necessary changes in the system
- Check with the existing system
- Installation of hardware and software utilities
- Training and involvement of user personnel

# MAINTENANCE

## 9. MAINTENANCE

Maintenance is actually the implementation of the post implementation review plan. As important as it is, many programmers and analyst are reluctant to perform or identify themselves with maintenance effort. There are psychological, personalities and professional reasons for this. In any case, first-class effort must be made to ensure that the software changes are made properly and in time to keep the system intone with user specification. Maintenance is expensive. One way to reduce maintenance costs is through maintenance management and software modification audits. Software modifications consists of program rewrites system-level updates, re-audits of low ranking software, reduced maintenance backlog and higher satisfaction and moral among the maintenance of staff.

Even when the new system has gone live there may be need for some system design activity. This will see from changes that are necessitated by the dynamic nature of the system and its environment. Changes may be required to correct faults or to bring about improvements, and may arise as part of normal running of the system or as a result of a review of the system's performance. Changes or amendments and documentations are perhaps handled by specialist group of maintenance staff.

# **SECURITY MEASURES**

## 10. SECURITY MEASURES

A computer system is secure if neither its availability to attain its objective nor its availability to survive can be adversely affected by an unwanted event. A computer-based security is the combination of many assets or resources designed to perform some functions or to provide service. The facility to impose strict authorization is completely vested in the hands of the system respectively. Only valid users can enter into the system. They have to provide a valid username and password to prove that they are valid users. If any one of them is wrong access is denied.

### 1. SYSTEM SECURITY

System security refers to the technical innovation and procedures applied to the hardware and operating system to protect against deliberate or accidental damage from a defined threat. In contrast, data security is the protection of data loss, disclosure, modification, and destruction. The security features are considered while developing the system, as to avoid the errors and omissions that may lead to serious problems.

### 2. SYSTEM INTEGRITY

System integrity refers to the functioning of hardware and programs, appropriate physical security, and safety against external threat to a computer system is any event that adversely affects one or more assets or resources, which may make up the system.

An event can be any one of the following:

- Interruption of communication
- Destruction of hardware
- Modification of software
- Removal of programs
- Disclosure of information

### 3. PRIVACY

Privacy defines the rights of the users or organizations to determine what information they are willing to share with or accept from others and how the organization can be protected against unexpected dissemination of information about it.

## **10.4 CONFIDENTIALITY**

The term confidentiality is a special status given to sensitive information in a database to minimize the possible inverse of privacy. It is an attribute of information that characterizes its need for protection. In contrast, privacy is largely a procedural matter of how the information is used.

The security measures of computer system should be specified at an early stage in the design of the system. In this project, the data security and data validation checking methods are applied using a password authentication.

# **SCOPE & FUTURE ENHANCEMENTS**

## 11. SCOPE & FUTURE ENHANCEMENTS

### 1. FUTURE SCOPE

The future scope of “**GREENCART**” is

very broad. Few of them are:

- This system unifies shops under one website.
- Reducing time required to search and find plants.
- Can be accessed from anywhere with internet

### 2. SCOPE FOR FUTURE ENHANCEMENTS

The future scope and enhancement opportunities for “**GREENCART**” is plenty. The system is designed in such a way that it can easily accept new updates. Proposed system focus on different plant products, while when added enhancements, it will attain capabilities to process sales and shipments of other related products also. Such as fertilizers, potting mixture, vases, compost so on. This will further increase the credibility and usability of “**GREENCART**” . Making it much more desirable to users. The enhanced iteration will also focus on sales spreading towards other states also. We can even update the same with further modification establishment and can be integrated with minimal modification. Thus the project is flexible and can be enhanced at anytime with more advanced features.

- More products will be introduced.
- More useful in all aspects.
- Sales to and from more states within the country.
- Tutorials on planting and plant care.

# CONCLUSION

## 12. CONCLUSION

The goal of “ **GREENCART** ” is to unify all the individual shops scattered within a common website, The objective of “ **GREENCART** ” is to simplify the search for a quality plant product from several providers with optimum pricing. Admin coordinates all the activities that are taken place in the website. Users can find best deals here.

“ **GREENCART** ” is a substantial improvement over the existing system which involves intensive search which oftentimes brings unsatisfactory results. It opens up lot more opportunities for all the entities involved. From admin, shops to users. In all aspects , “ **GREENCART** ” is a significant improvement over existing systems. In this system there are four main modules, and they are: -

1. Admin
2. Shop
3. User
4. Guest

The project entitled “ **GREENCART** ” was completed on time. This project provided maximum interaction and flexibility. The system was tested, and the performance of the system was provided to be much more efficient.

The modules in the system help in faster development, implementation, and maintenance of the software. This system has been developed as versatile and user-friendly as possible keeping in mind the advanced features. Using HTML, CSS, JavaScript, PHP, and MySQL SERVER 2008, the system was developed and tested with all possible samples of data. As a whole, the system was well-planned and designed. The performance of the system is proved to be efficient.

All modules are tested separately and put together to form the main system. Finally, the system is tested with real data and everything worked successfully. Thus, the system has fulfilled the entire objective identified. The system required least hardware requirement to work on. So, I can state, I have developed such a good environment for shops and users. And it provides a number of advantages too as I have described in the previous sections.

To conclude this, I thank all people who helped to complete this project work successfully.

# **REFERENCES**

## 13. REFERENCES

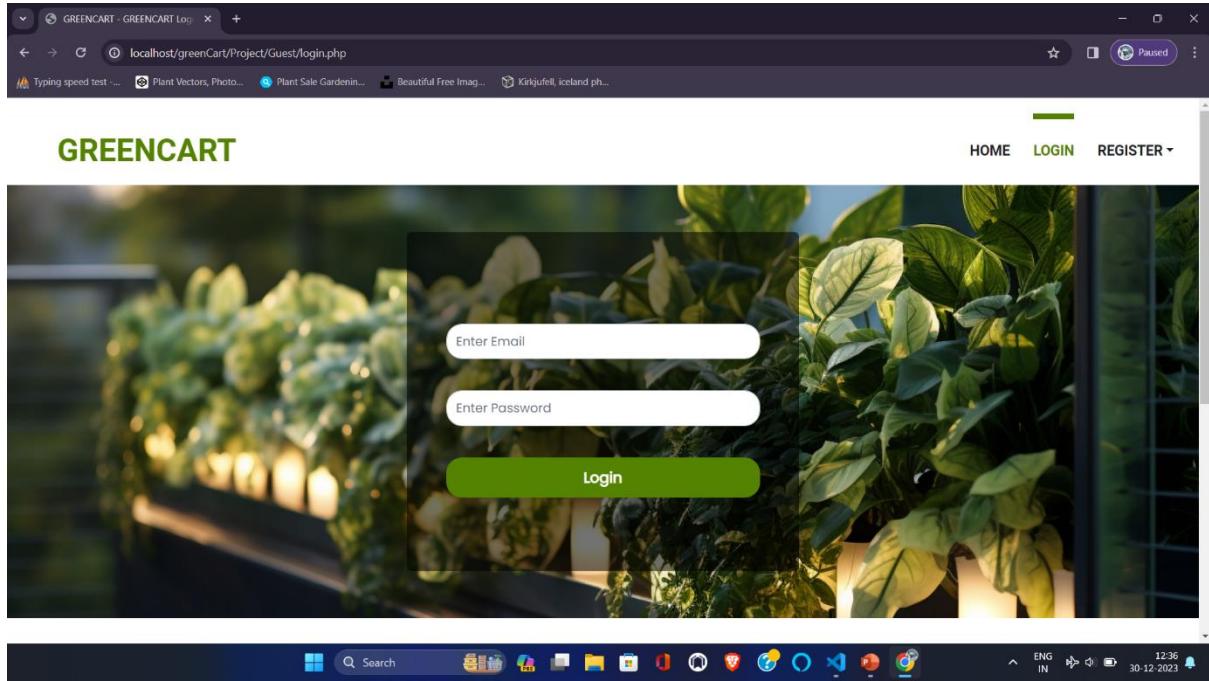
1. An Integrated approach to Software Engineering,Narosa publishers, Third edition by Pankaj Jalote.
2. PHP Manual-[www.php.net](http://www.php.net).
3. PHP Manual-[www.w3school.com](http://www.w3school.com).
4. PHP Manual- [www.geeksforgeeks.org/](http://www.geeksforgeeks.org/)
5. Secure PHP Development-Building 50 Practical Applications by Mohammed J Kabir,Wiley Publishing,inc.
6. PHP for Absolute Beginners by Jason Lengstorf
7. System Analysis and Design - Elias M Awed
8. Elements of System Analysis and Design- Marvin Gore/John W stubbed
9. SQL Server Complete Reference- Coffman

# APPENDIX

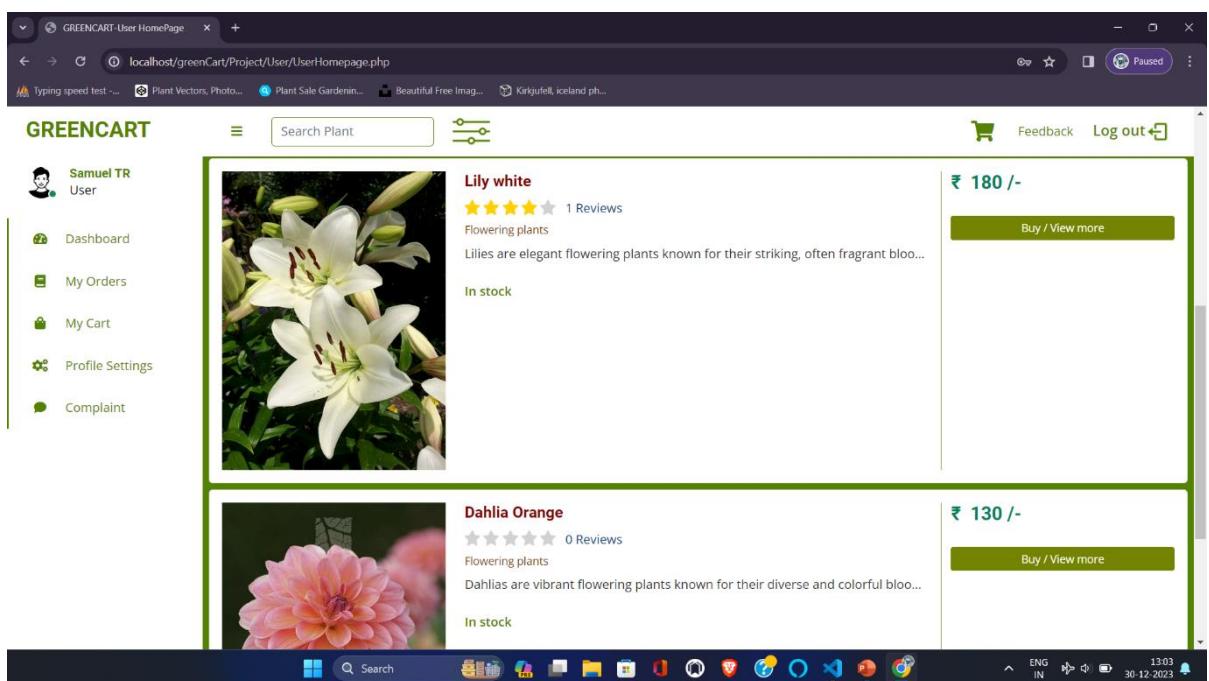
## 14.APPENDIX

### 14.1 SCREEN SHOTS

#### LOGIN FORM



#### USER DASHBOARD



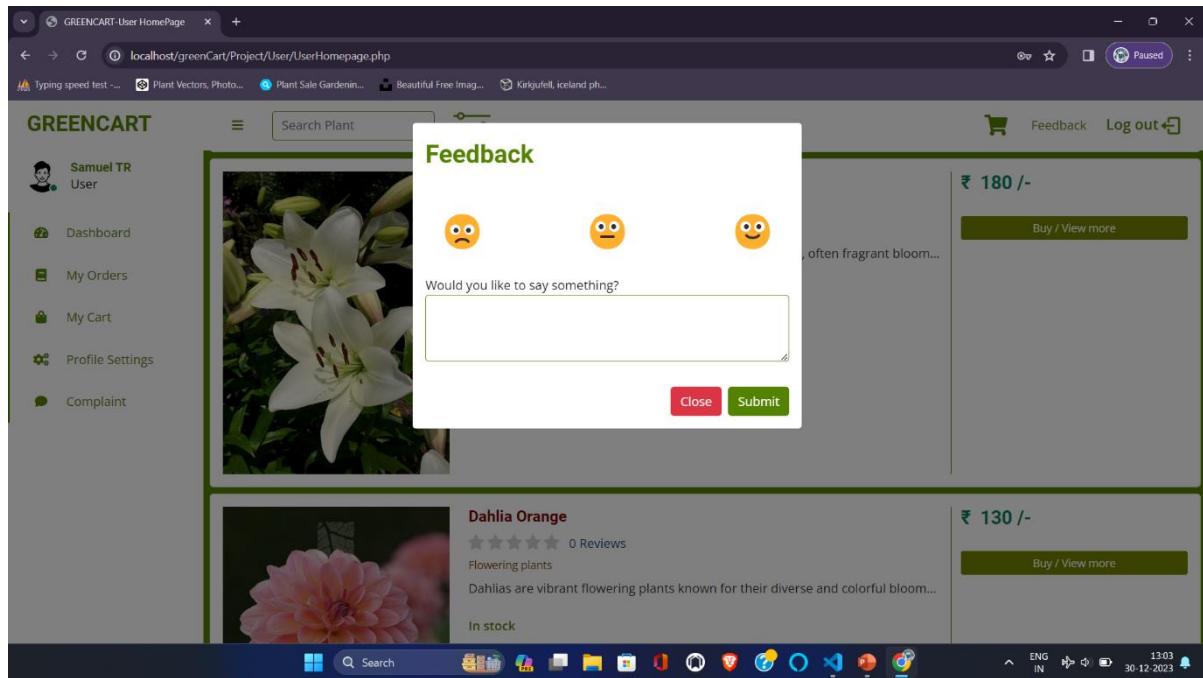
## SHOP DASHBOARD

The screenshot shows the Shop Dashboard interface. At the top, there's a header bar with the title "GREENCART" and a "Log out" button. Below the header is a sidebar on the left containing a user profile icon ("Cochin Bonsai Garden Seller"), a dashboard link, and a dropdown menu for "Orders" which includes "Plants", "User Complaints", and "Profile". The main content area has six cards arranged in two rows of three. The first row contains "New Orders" (0), "Confirmed Orders" (0), and "Delivered Orders" (2). The second row contains "Canceled Orders" (0), "Total Plants" (3), and "Total Earnings" (₹ 6180). At the bottom right of the dashboard, there's a date and time indicator: "12:49 30-12-2023".

## ADMIN DASHBOARD

The screenshot shows the Admin Dashboard interface. At the top, there's a header bar with the title "GREENCART" and a "Log out" button. Below the header is a sidebar on the left containing a user profile icon ("Admin Admin"), a dashboard link, and dropdown menus for "Location", "Basic Data", and "Profile Settings". The main content area has three large cards: "Shops" (2), "Users" (5), and "Plants" (3). Below these cards are two sections: "Requested Shops" and "Accepted Shops", each containing a dropdown menu with the placeholder text "-----Select shop-----". At the bottom right of the dashboard, there's a date and time indicator: "12:52 30-12-2023".

## FORM FOR SENDING FEEDBACKS



## USER ORDERS

Sl no	Order ID	Plant	Photo	Quantity	Shop	Price	Payment Status	Date	Order Status	Action
1	321457708	Tulips white Flowering plants		6	Cochin Bonsai Garden	5100	Payment completed	30-12-2023	Delivered	<button>View more</button> <button>Cancel order</button> <button>Review</button>
2	943418285	Lily white Flowering plants		6	Cochin Bonsai Garden	1080	Payment completed	30-12-2023	Delivered	<button>View more</button> <button>Cancel order</button> <button>Review</button>

## SHOPPING CART

The screenshot shows the user shopping cart page. On the left, there's a sidebar with a user profile for 'Samuel TR' and links for Dashboard, My Orders, My Cart, Profile Settings, and Complaint. The main area displays 'My shopping cart' with two items:

- Dahlia Orange**: Flowering plants, quantity 5, price Rs. 650 (Rs. 130 / per item). Includes a 'Remove' button.
- Lily white**: Flowering plants, quantity 1, price Rs. 180 (Rs. 180 / per item). Includes a 'Remove' button.

To the right, a summary shows 'Total price: Rs. 830' and 'TAX: Rs. 20', resulting in a total of 'Rs. 850'. Buttons for 'Make Purchase' and 'Back to shop' are present.

## FORM FOR ADDING PLANT CATEGORIES

The screenshot shows the admin plant categories page. The sidebar for 'Admin' includes links for Dashboard, Location, Basic Data, and Profile Settings. The main area has a search bar for 'Enter Plant Category' and a 'Save' button below it. A table titled 'Plant Categories' lists four entries:

Sl no	Plant category	Action
1	Cactus Plants	Delete
2	Succulent Plants	Delete
3	Herbal Plants	Delete
4	Fruit Plants	Delete

## FORM FOR ADDING PLANTS

-----Select Plant category-----

Enter plant name

Enter plant description

Choose plant photo  
Choose File No file chosen

Enter plant price

Save

## FORM FOR ADDING COMPLAINT TYPES

Generate report View Feedbacks View Complaints Log out

Enter complaint type

Website based  Shop based

Save

Sl no	Complaint type	Action
1	Worst product	<button>Delete</button>
2	Server error	<button>Delete</button>
3	Payment failure	<button>Delete</button>

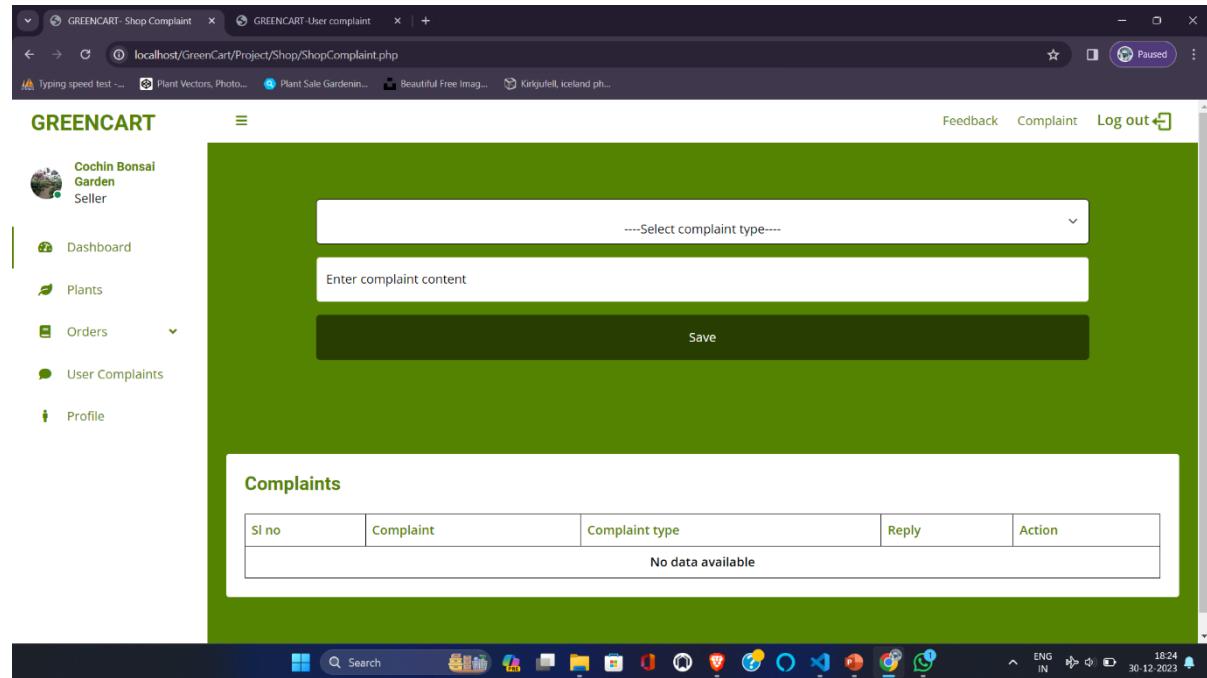
## FORM FOR ADDING DISTRICTS

Sl no	District	Action
1	Thiruvananthapuram	<button>Delete</button>
2	Kollam	<button>Delete</button>
3	Pathanamthitta	<button>Delete</button>
4	Alappuzha	<button>Delete</button>

## FORM FOR ADDING AND VIEW CITIES

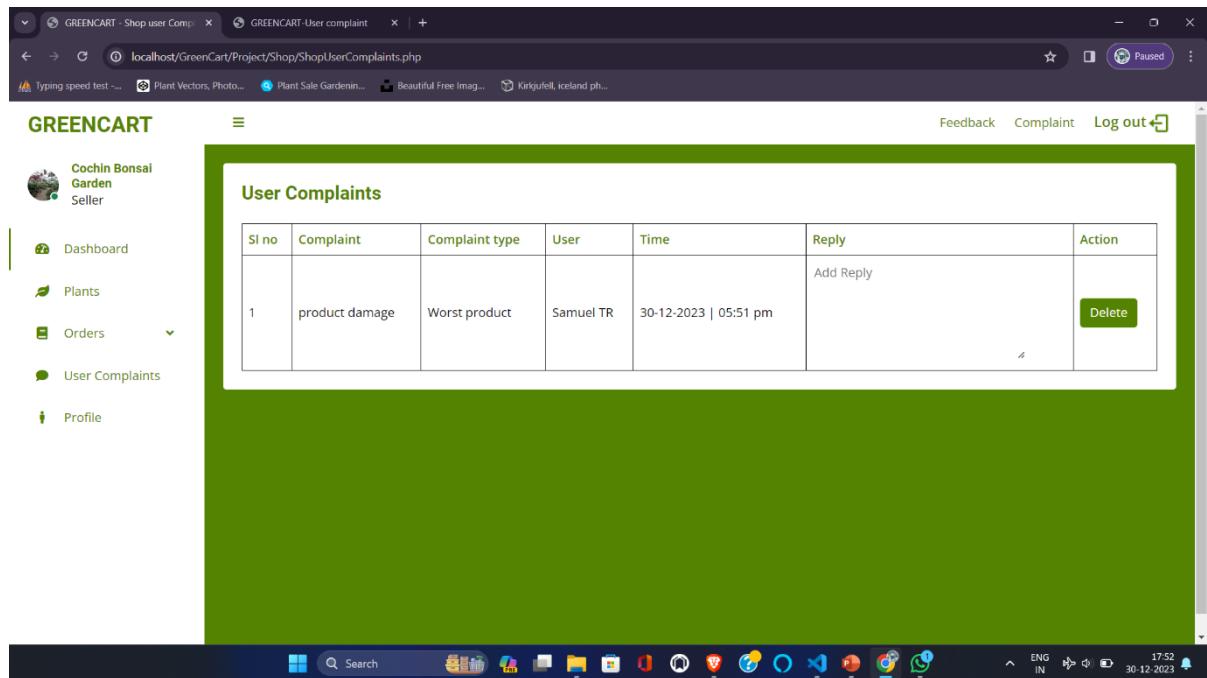
Sl no	city name	Action
Select district to view cities		

## FORM FOR SENDING COMPLAINTS TO THE ADMIN (WEBSITE BASED)



The screenshot shows a web browser window titled "GREENCART - Shop Complaint". The URL is "localhost/GreenCart/Project/Shop/ShopComplaint.php". The page has a green header with the "GREENCART" logo and navigation links for Feedback, Complaint, and Log out. On the left, there's a sidebar for "Cochin Bonsai Garden Seller" with links for Dashboard, Plants, Orders, User Complaints, and Profile. The main content area contains a form with fields for "Select complaint type" (dropdown), "Enter complaint content" (text area), and a "Save" button. Below the form is a table titled "Complaints" with columns: Sl no, Complaint, Complaint type, Reply, and Action. A message "No data available" is displayed in the table.

## FORM FOR SENDING REPLY FOR USER COMPLAINTS (PRODUCT BASED)



The screenshot shows a web browser window titled "GREENCART - Shop user Complai...". The URL is "localhost/GreenCart/Project/Shop/ShopUserComplaints.php". The page has a green header with the "GREENCART" logo and navigation links for Feedback, Complaint, and Log out. On the left, there's a sidebar for "Cochin Bonsai Garden Seller" with links for Dashboard, Plants, Orders, User Complaints, and Profile. The main content area contains a table titled "User Complaints" with columns: Sl no, Complaint, Complaint type, User, Time, Reply, and Action. One row is visible: "1 product damage Worst product Samuel TR 30-12-2023 | 05:51 pm Add Reply Delete".

## FORM FOR SENDING COMPLAINTS TO THE SHOP OR ADMIN

----Select complaint type----

Enter complaint content

Save

Complaints					
<input checked="" type="radio"/> Website based	<input type="radio"/> Product based	Sl no	Complaint	Complaint type	Time
		1	loading error	Server error	30-12-2023   01:25 pm
					No reply
					<button>Delete</button>

## FORM FOR SENDING REPLY TO USER COMPLAINTS OR SHOP COMPLAINTS

Generate report View Feedbacks View Complaints Log out

User Shop

Complaints						
<input checked="" type="radio"/> User	<input type="radio"/> Shop	Sl no	Complaint	Complaint type	User	Time
		1	loading error	Server error	Samuel TR	30-12-2023   01:25 pm
					Add Reply	
						<button>Delete</button>