INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE DEVELOPMENT AKURDI, PUNE

Documentation On

"Online Vegetables Shopping System"

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Submitted By:

Group No: 87

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Table of Content

List of Figures

1. Introduction

Now these days people buy vegetables manually from market , shops and malls. In manual system , customers have to face many problems like bargaining , quality ,quantity, and its very time-consuming process , customers have to travel for buying vegetables. The Online Vegetable Shopping System allows customers to buy vegetables with reasonable rates and discounts, customers get the products at their doorstep. This system is for all who don't have time to purchase vegetables and farmers who has to sell their product to customers directly

1.1. Document Purpose

The advancement in Information Technology and internet penetration has greatly enhanced various business processes to go online This Online Vegetable Shopping System is developed to provide the following services:

Enhance Business Processes:
This system allows farmers to sell their product to customers directly without any third-party commission.

Online Vegetable Shopping System:
A tool through which Shopper can add products and customer can buy the products .The admin also receives some set of functionalities which help in managing the website effectively.

1.2. Problem Statement

Now these day people buy vegetables manually from market , shops and malls. In manual system , customers have to face many problems like bargaining , quality ,quantity, and its very time-consuming process , customers have to travel for buying vegetables .

1.3. Product Scope

This system allows farmers to sell their product to customers directly connecting with customers by adding it to cart ,so there is no 3rd party person involve in it and customers those don't have time to go market they can select ,add product to cart , and receive the product through local *delivery boy.*

1.4. Aims & Objectives

Specific goals are: -

- To produce a web-based system that allow the shopper to add vegetables and with their details.
- To ease customers by providing them different functionalities like searching , selecting, adding to shopping cart and place the order.
- Admin will have access to all the activities on the Website.

2. Overall Description

2.1. Product Perspective:

2.1.1. Existing system function:

People buy vegetables manually from market, shops and malls. In manual system , customers have to face many problems like bargaining , quality ,quantity, and its very time-consuming process , customers have to travel for buying vegetables. This system provides customers to buy vegetables with reasonable rates and discounts, customers get the products at their doorstep. This system is for all who don't have time to purchase vegetables and farmers who has to sell their product to customers directly.

2.1.2. PROPOSED SYSTEM

2.1.2.1. Product functionality:

Online Vegetables Shopping System provides the feature for shopper, customer and admin. . It includes several functionalities describes as below:

2.1.2.2. Shopper :

Shopper can add vegetables with their details like title, description , category, unit price, quantity using their credentials.

2.1.2.3. Customer:

Customer can search, select product also add to shopping cart and place order.

2.1.2.4. Admin:

Admin will have access to all the activities on the Website to work it efficiently.

2.2. Benefits of Online Vegetable Shopping System

- This online vegetable shopping system is fully functional and flexible.
- It is very easy to use.
- This online vegetable shopping system helps shoppers to sell products and customers get easy solution to buy their daily needs.
- It saves a lot of time and gives quick delivery.
- Best way to buy daily needs in this pandemic situation .
- The application acts as a shop that is open 24/7.
- It increases the quality of product and offers best service to the customers.

2.3. Users and Characteristics:

2.3.1. Shopper:

- Shopper can login to the system.
- View the list of all vegetables which he had added already.
- Add new vegetables .
- Delete vegetables.
- Update vegetables details.

2.3.2. Customer:

- Customer can login to the system.
- View the list of all vegetables which are available.
- Can add to shopping cart.
- View the list of all products add in cart.
- Also can remove product from cart.
- Can place the order.
-

2.3.3. Admin:

- Admin can login to the system.
- View the list of all users .
- Can view the list by account type of users.
- Admin can remove particular user.
- Can update the users active or inactive status.

2.4. Operating Environment:

2.4.1. Server Side:

Processor: Intel® Xeon® processor 3500 series
HDD: Minimum 1Tb Disk Space
RAM: Minimum 4GB
OS: Windows 8.1, Linux 6
Database: MySQL

2.4.2. Client Side (minimum requirement):

Processor: Intel Dual Core
HDD: Minimum 50GB Disk Space
RAM: Minimum 4GB
OS: Windows 10, Linux

2.5. Design and Implementation Constraints:

- The application will use HTML 5, CSS, Bootstrap as main web technologies.
- HTTP and FTP protocols are used as communication protocols. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.
- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since Online Vegetable Shopping System is a web-based application, internet connection must be established.
- The Online Vegetable Shopping System will be used on PCs and will function via internet or intranet in any web browser.

3. Specific Requirement:

3.1. External Interface Requirements:

3.1.1. User Interfaces:

- All the users will see the same page when they enter in this website. This page asks the users a username and a password.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

3.1.2. Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.
- This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

3.2. Application Interfaces:

OS: Windows 10, Linux

Web Browser:

The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the booking information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfill the request fired by the user.

4. System Design:

4.1. Activity Diagram:

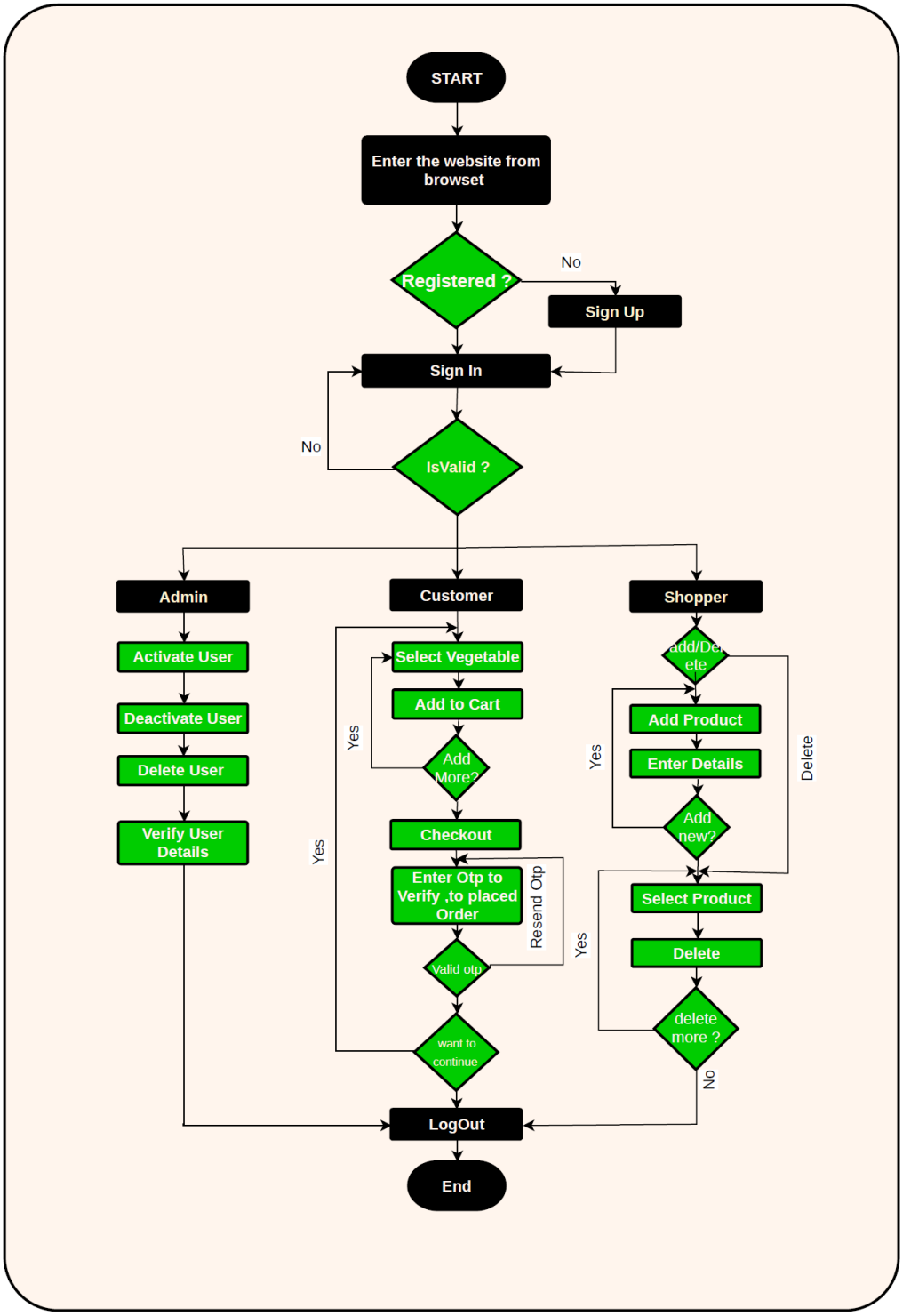

Figure 1:Activity Diagram

4.2. Data Flow Diagram:

Figure 2: Level 0 Data Flow Diagram

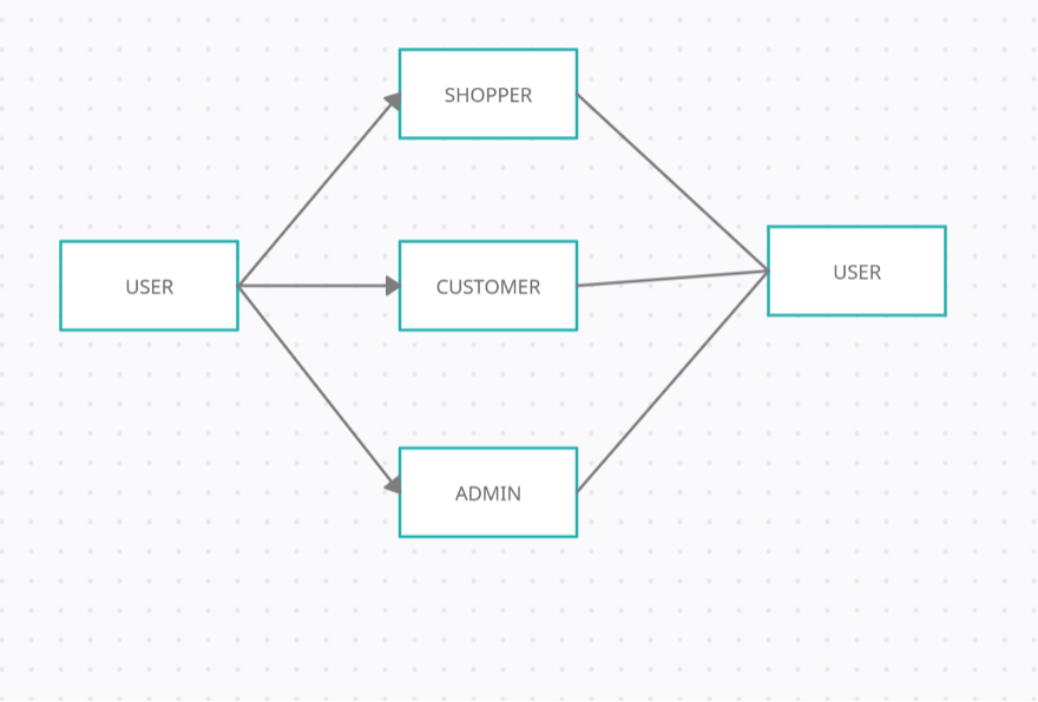

Figure 3: Level 1 Data Flow Diagram

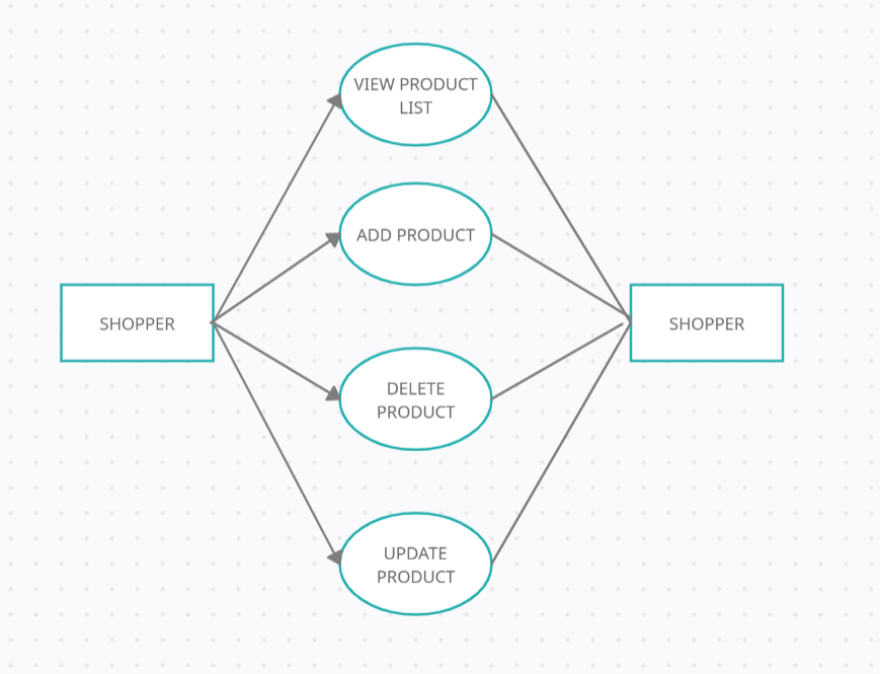

Figure 4:Level 2 Data Flow Diagram for Shopper

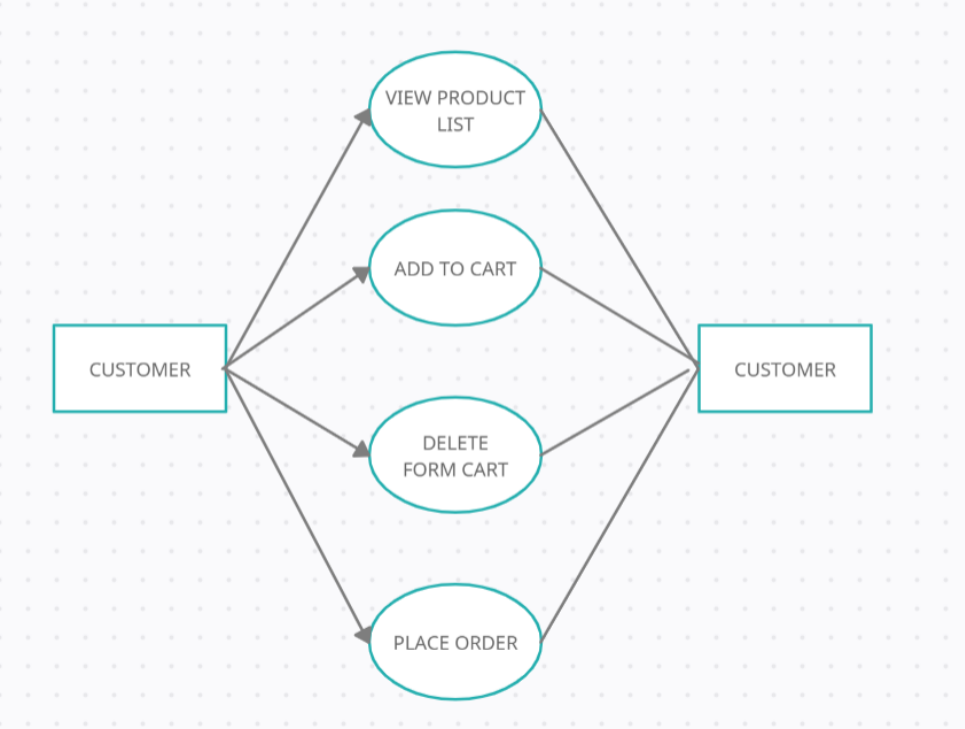

Figure 5:Level 2 Data Flow Diagram for Customer

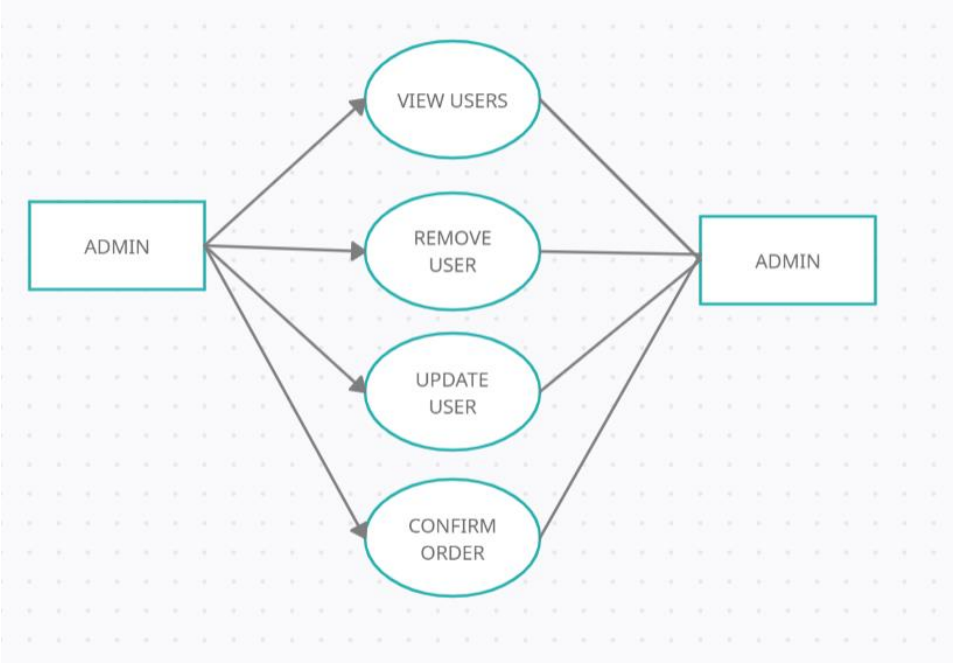

Figure 6:Level 2 Data Flow Diagram for Admin

4.3. Class Diagram:

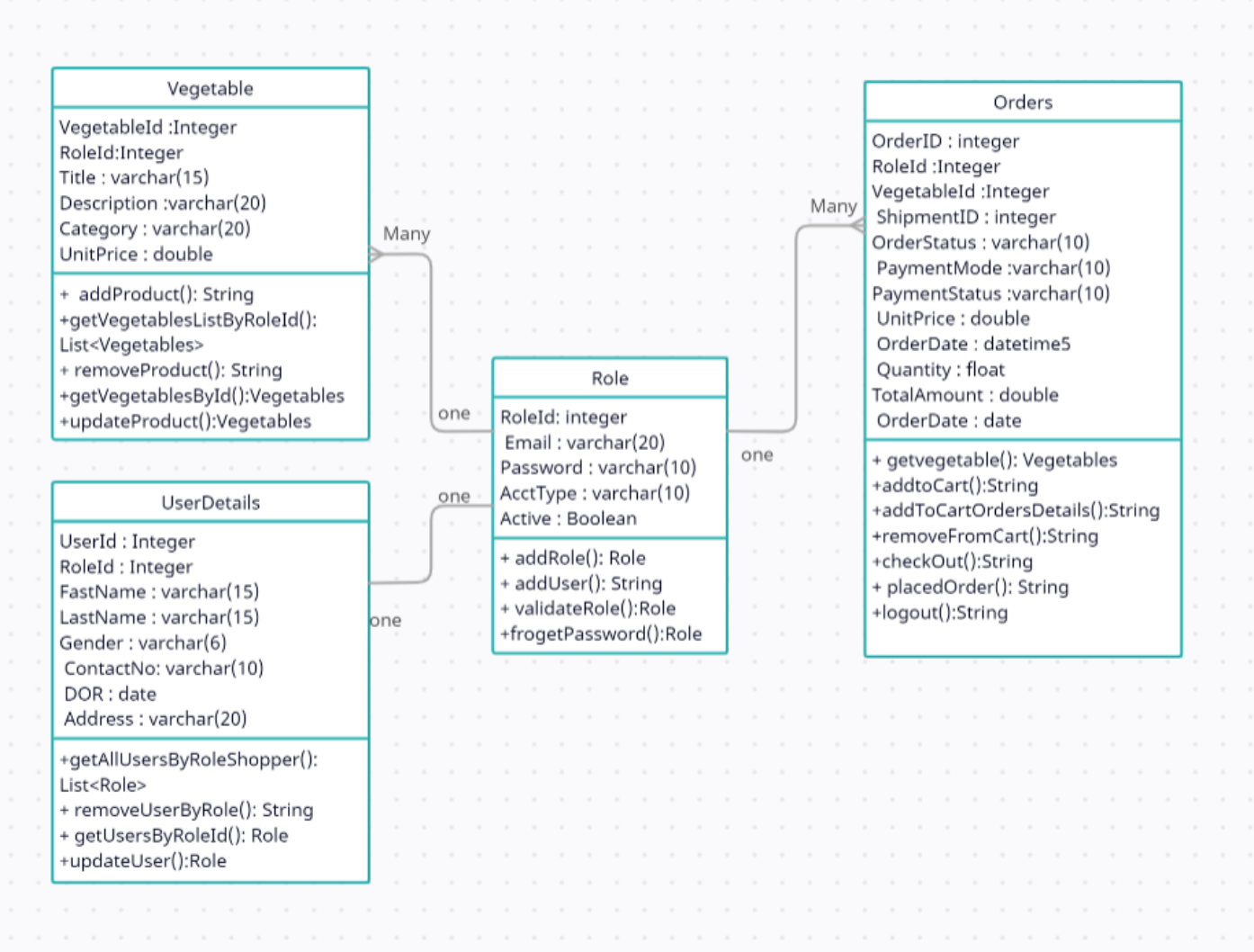

Figure 7: Class Diagram

4.4. Use Case Diagram:

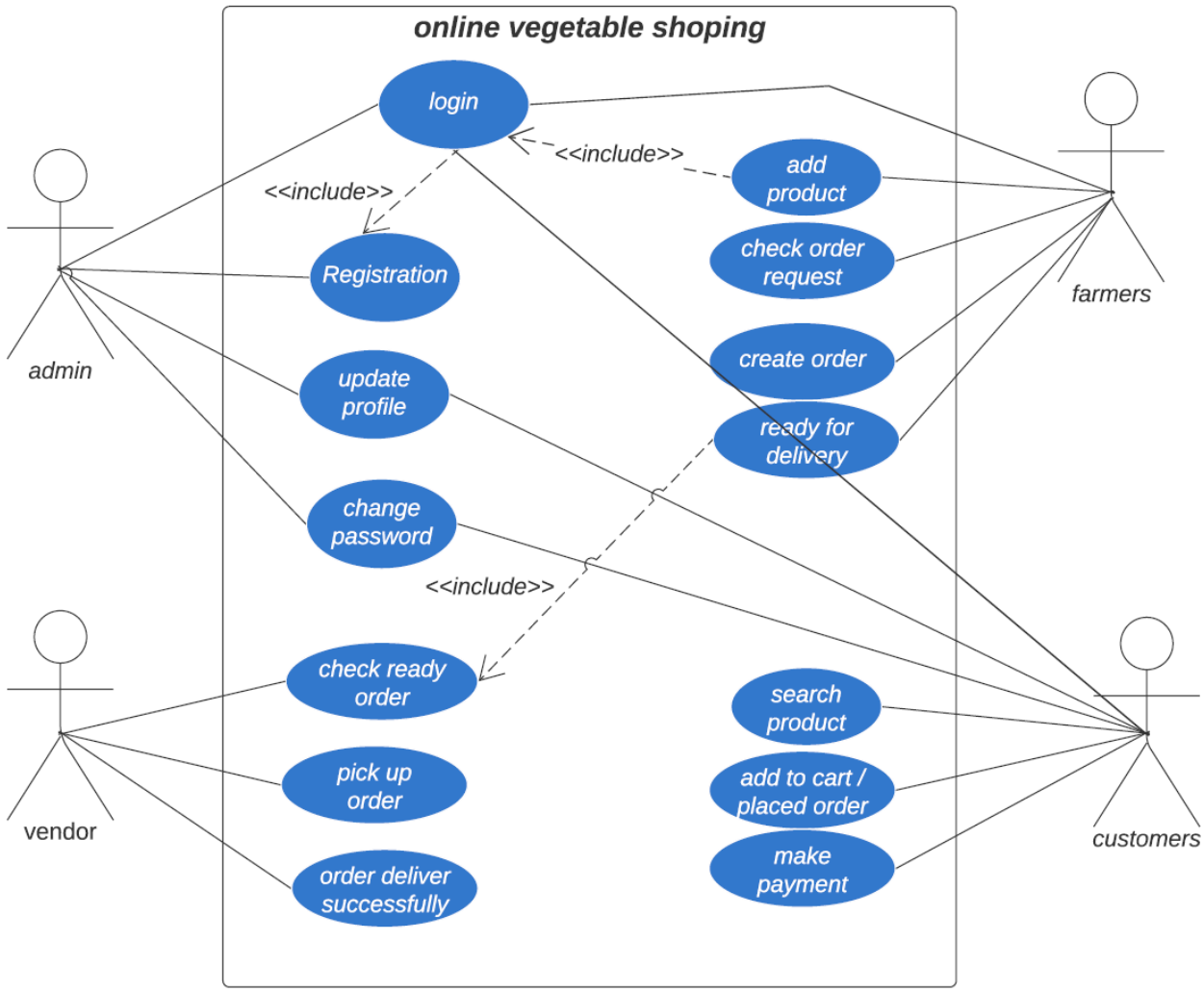

Figure 8:Use Case Diagram

4.5. ER Diagram:

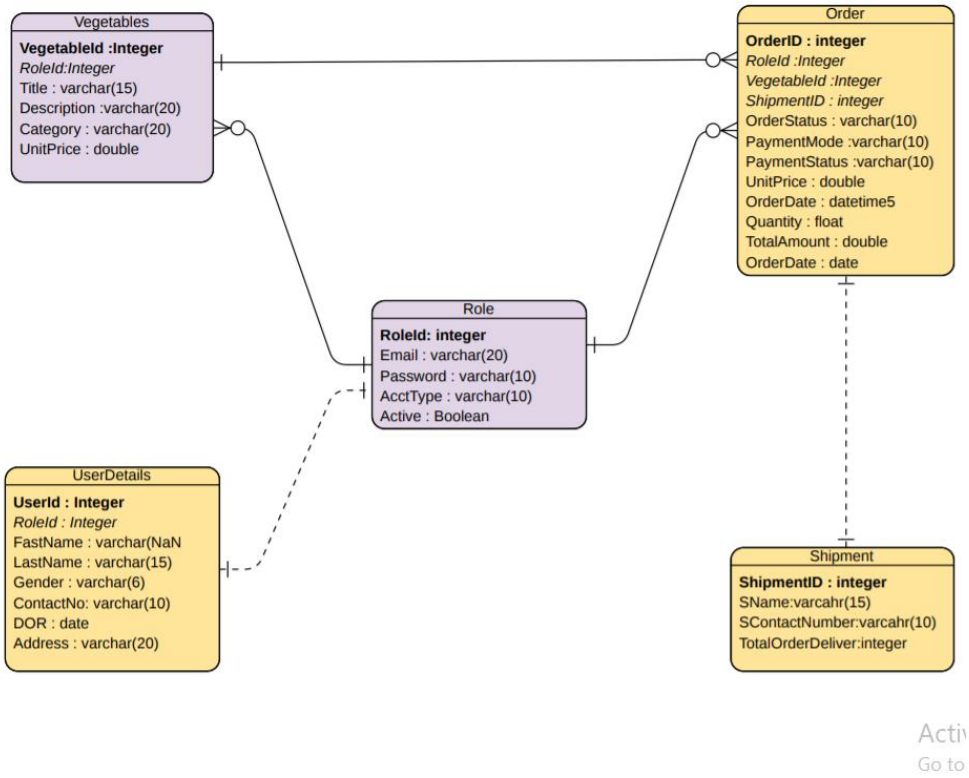

Figure 9:ER Diagram

4.6. SDLC

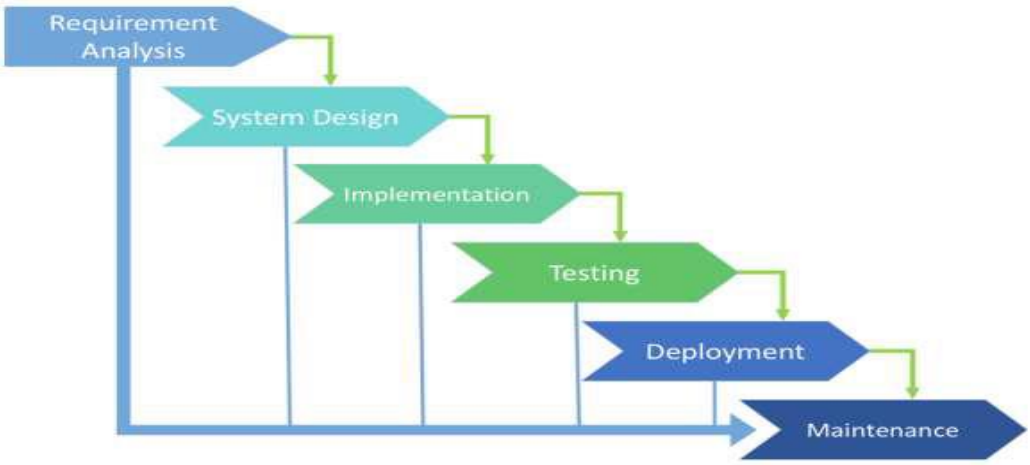

Figure 10: SDLC

5. Table Structure:

5.1. Role:

Field	Type	Null	Key	Default	Extra
roleId	number(11)	NO	PK	NULL	Auto_increment
email	varchar2(30)	NO		NULL	
password	varchar2(30)	NO		NULL	
accType	varchar2(30)	NO		NULL	

5.2. Users:

Field	Type	Null	Key	Default	Extra
userId	number(11)	NO	PRI	NULL	Auto_increment
firstName	varchar2(30)	NO		NULL	
lastName	varchar2(30)	NO	UNI	NULL	
gender	varchar2(30)	NO		NULL	
address	varchar2(30)	NO		NULL	
contactNo	varchar2(30)	NO		NULL	
DOR	date	NO		NULL	
active	boolean	NO		true	
roleId	number(11)	NO	FK		

5.3. Vegetables:

Field	Type	Null	Key	Default	Extra
vegetableId	number(11)	NO	PK	NULL	Auto_increment
title	varchar2(30)	NO		NULL	
description	varchar2(30)	NO		NULL	
category	varchar2(30)	NO		NULL	
unitPrice	number(11)	NO		NULL	
quantity	number(11)	NO		NULL	
roleId	number(11)	NO	FK		

5.4. Orders:

Field	Type	Null	Key	Default	Extra
orderId	number(11)	NO	PK	NULL	Auto_increment
roleId	number(11)	NO	FK		
vegetableId	number(11)	NO	FK		
ShipmentId	number(11)	NO	FK		
orderStatus	varchar2(30)	NO		NULL	
paymentMode	varchar2(30)	NO		NULL	
paymentStatus	varchar2(30)	NO		unpaid	
unitPrice	number(11)	NO		NULL	
Quantity	number(11)	NO		NULL	
orderDate	varchar2(30)	NO		NULL	
totalAmount	number(11)	NO		NULL	

5.5. Shipment:

Field	Type	Null	Key	Default	Extra
shipmentId	number(11)	NO	PK	NULL	Auto_increment
sName	varchar2(30)	NO		NULL	
sContactNumber	varchar2(30)	NO		NULL	
totalOrderDeliver	number(11)	NO		NULL	

6. Conclusion

Online Vegetable shopping system give an easy solution to small shoppers to sell their vegetables without any third-party commission. Customer will get best option to buy his daily needs and a quality product. Admin will have access to all the activities on the Website to work it efficiently.

Future Scope

This project can be enhanced further by giving discount on best buy, feedback given by customer, online payment facility . The software is flexible enough to be modified and implemented as per future requirements. We have tried our best to present this free and user–friendly website to Shoppers and Customer. Message and Email alerts for various happenings in the Application can be added to the system so that users do not miss the update.

7. References

Online References

[1] www.bigbasket.com/
[2]https://docs.oracle.com/javase/tutorial/