

Sprint 3 Backlog

“Agri Market” Agriculture Development Mobile Application Project

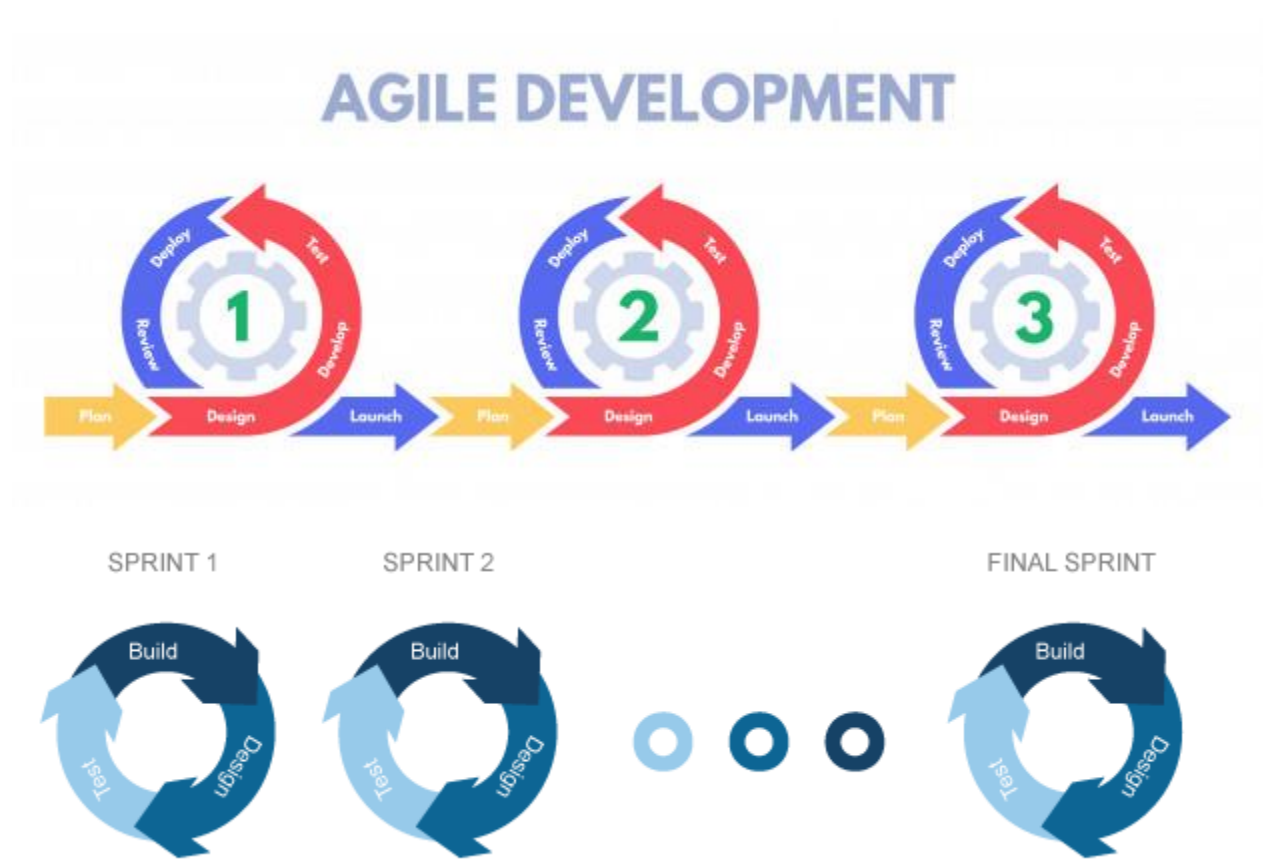
Agri Market

Group B

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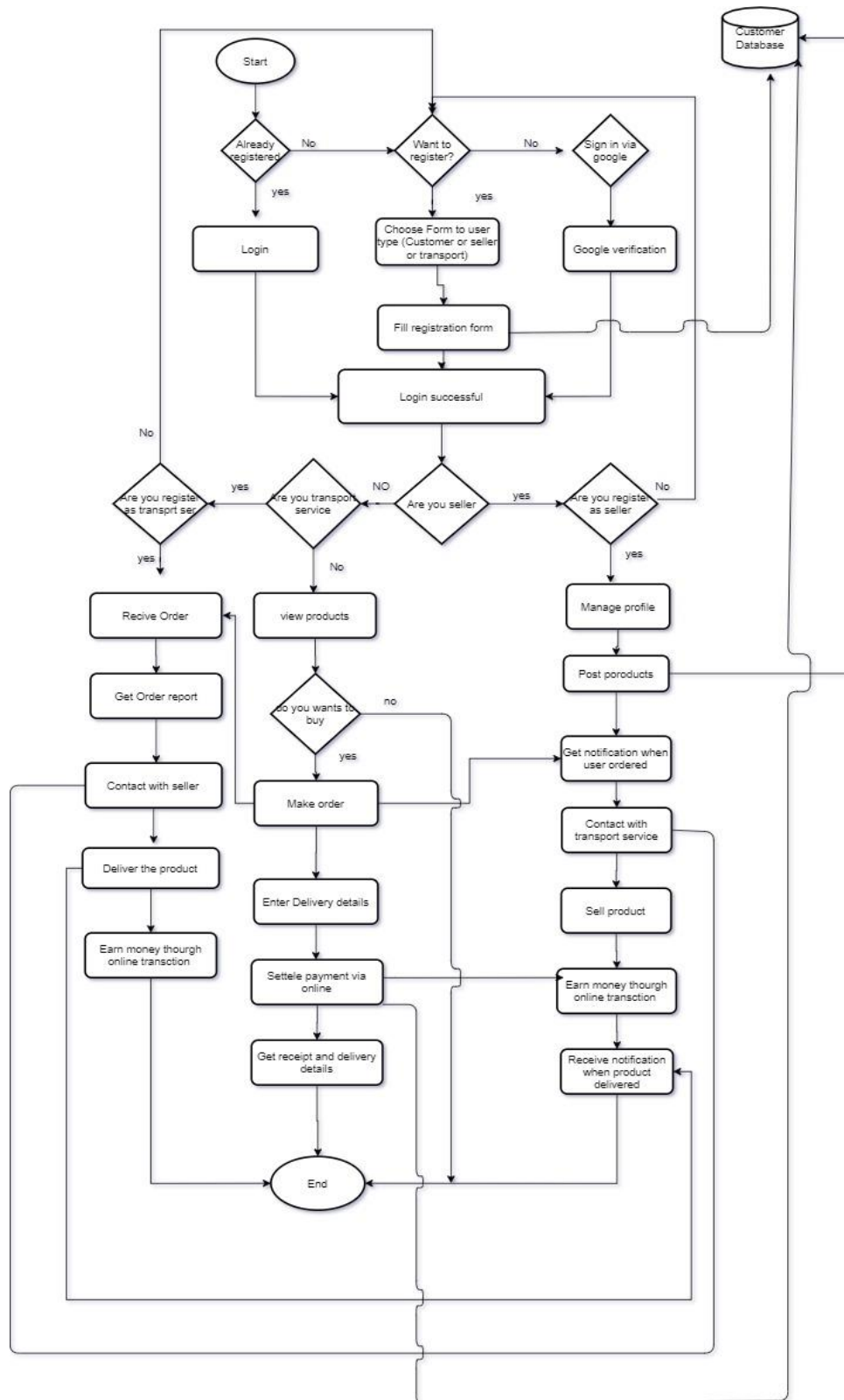
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01. Introduction



“*Scrum*”, the most popular agile framework in software development, is an iterative approach that has at its core the “*sprint*” the scrum term for iteration. Scrum teams use inspection throughout an agile project to ensure that the team meets the goals of each part of the process.

1.1 Full Systems Overview – Flow Chart



1.2 Major Fixes and Improvements

1) Email and Mobile Number Detection in Creating a New Account

The image shows two side-by-side screenshots of a mobile application's 'Enter Your Details' form. The form is set against a background image of a field at sunset. It contains five input fields: 'SLTC ICE 1', a mobile number field (containing '9711222333'), 'SLTC', a password field (with masked characters), and a 'Sms 30s ago' link. Below the fields are two error messages: 'Please enter valid Email' on the left and 'Please enter valid Mobile no.' on the right. At the bottom of each form is a green 'Create Account' button.

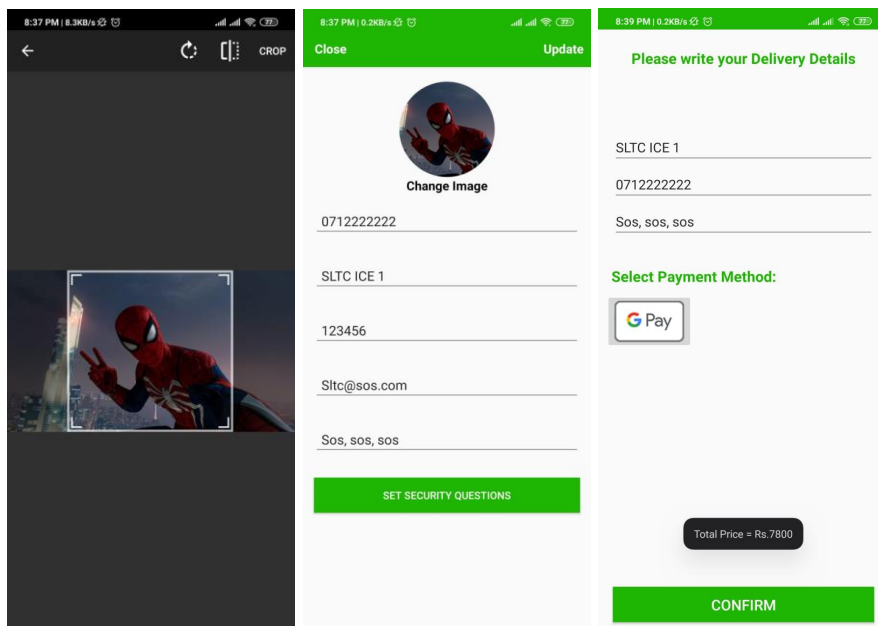
2) Total Amount Display in Shopping Cart

The image shows a screenshot of a shopping cart interface. At the top, a green bar displays 'Total Price = Rs.1790'. Below this, a list of items is shown in green boxes: 'Carrot' with 'Quantity = 1' and 'Price = Rs.200', 'Spray' with 'Quantity = 1' and 'Price = Rs.1500', and 'Onions' with 'Quantity = 1' and 'Price = Rs.90'. At the bottom, there are two buttons: a green 'VIEW TOTAL PRICE' button and a green 'NEXT' button. Below the buttons is a navigation bar with three icons: a list icon, a home icon, and a back icon.

3) Fixed Search Items displaying

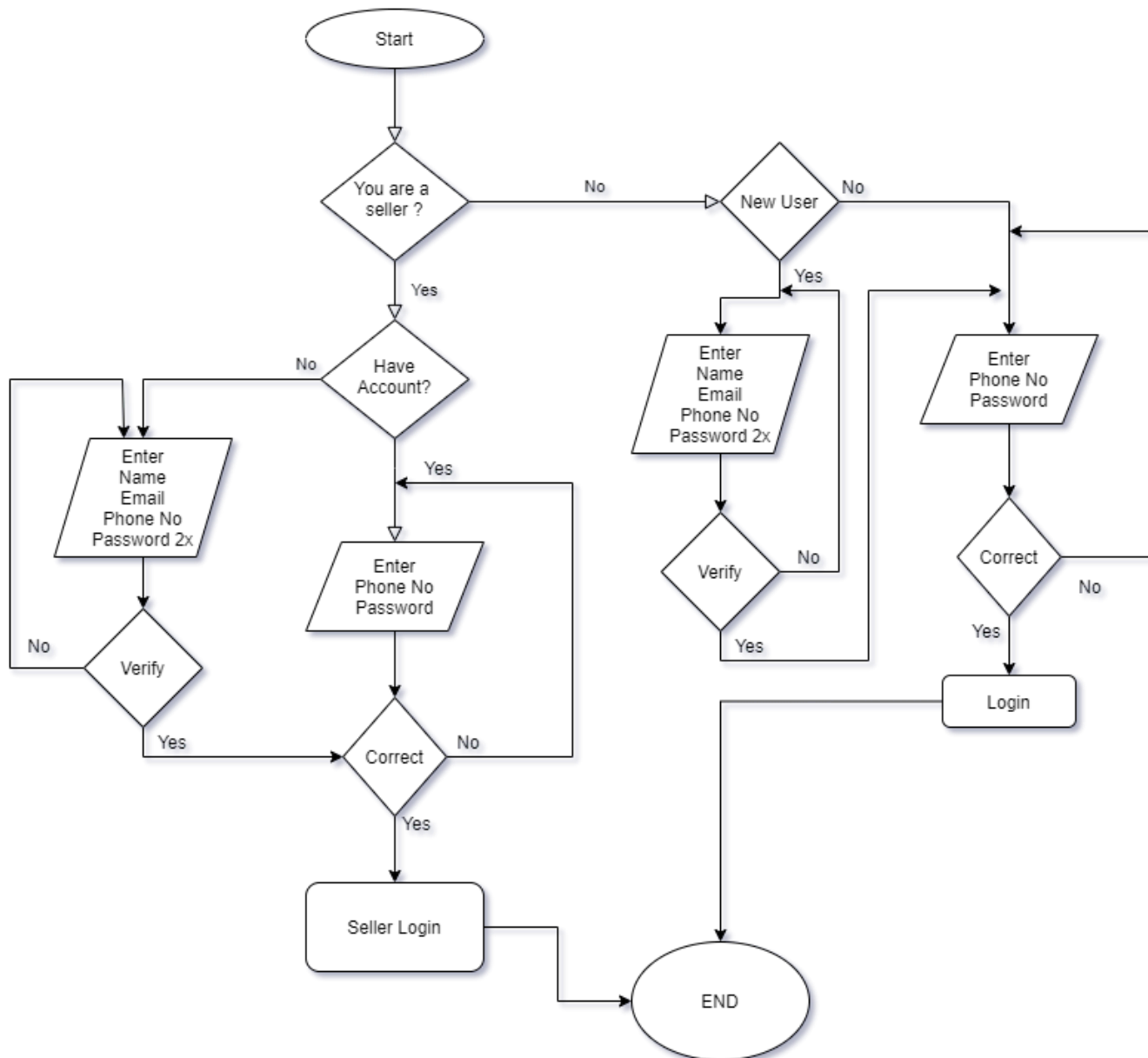


4) Fixed Auto Fill Form Data in Checkout Page and Profile Picture Option

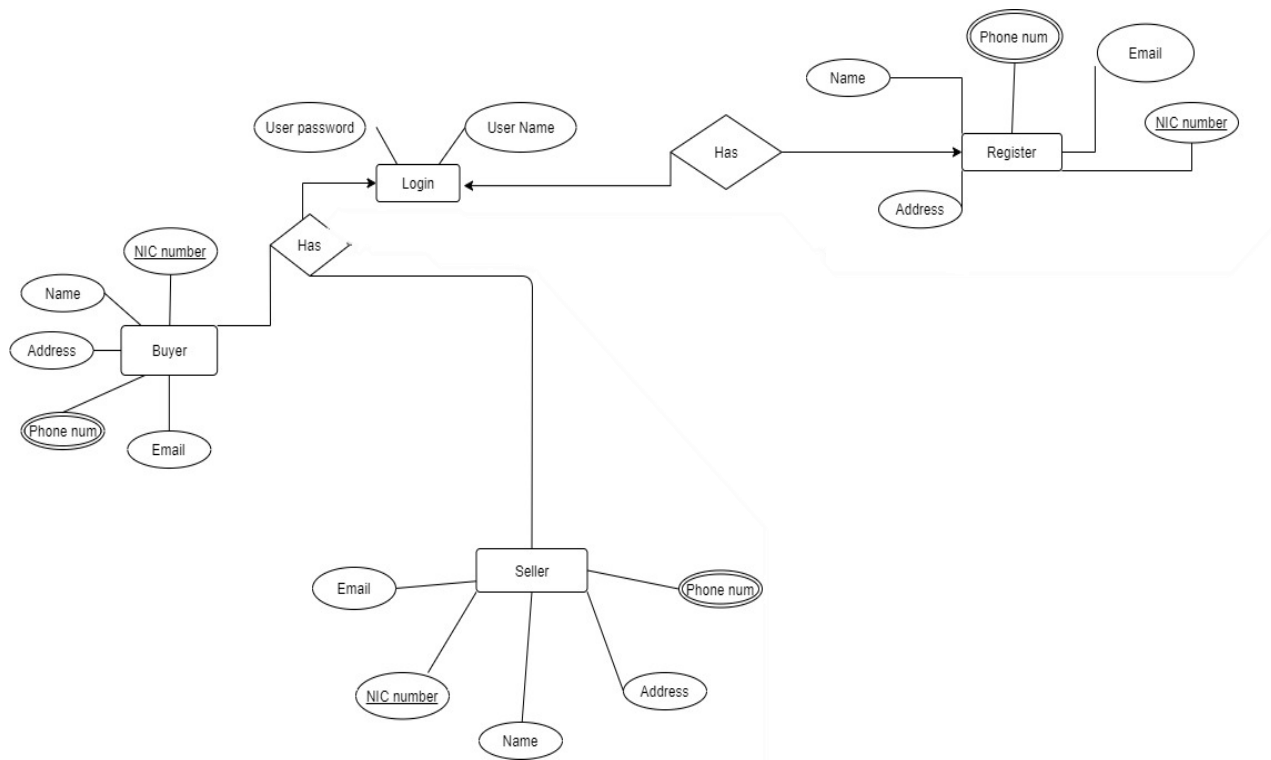


02. Login Management system

2.1 Flow chart



2.2 ER Diagram



2.3 UML – User Case Diagram

Description and Priority

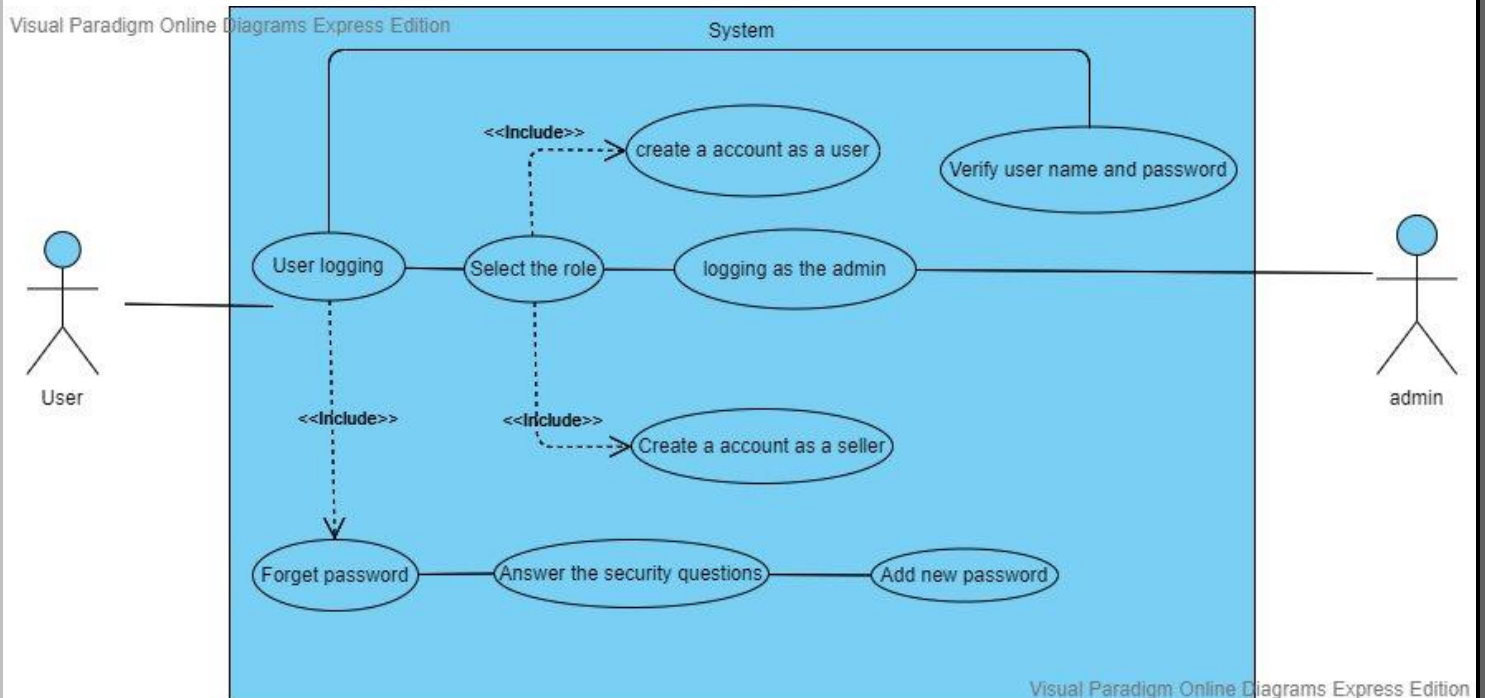
This feature allows customers to browse each service correctly. As application is used by main 3 types of customers sellers, buyers, transporter operators. Each account has its own facilities. This is the gateway that divides the users.

Ratings (0-9)	
Priority	10
Benefit to the user	9
Cost	4
Risk	6

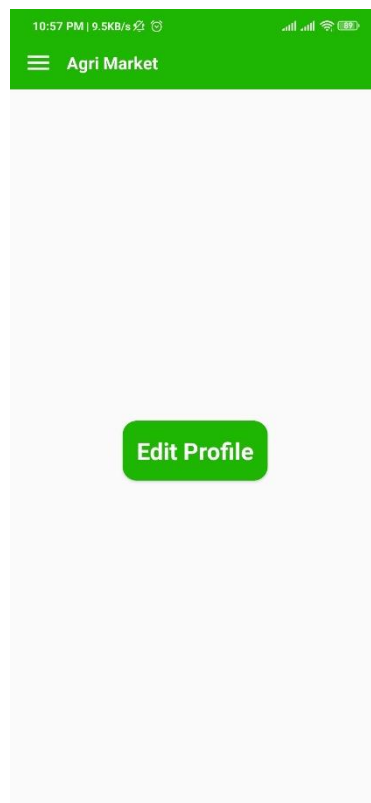
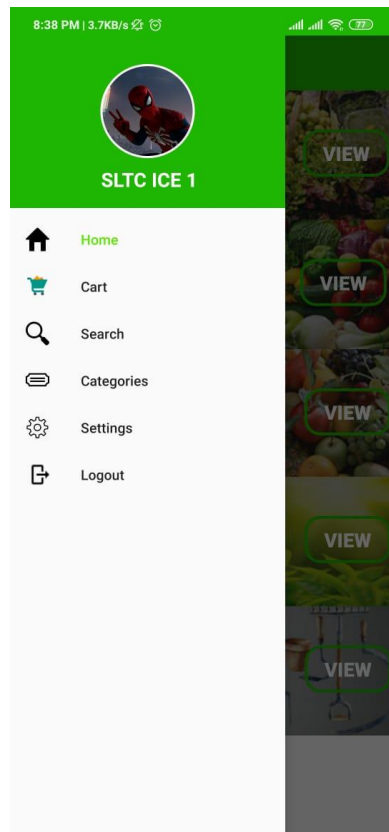
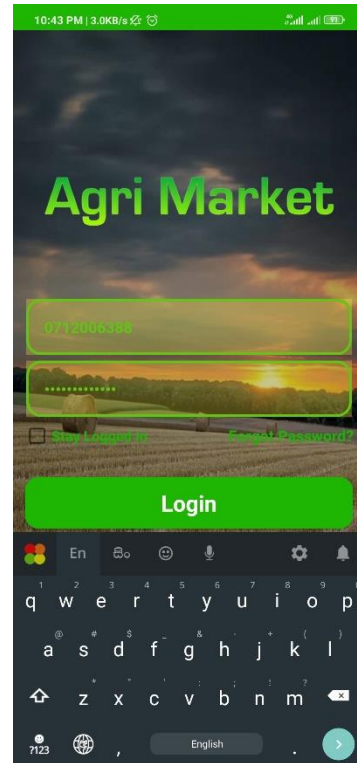
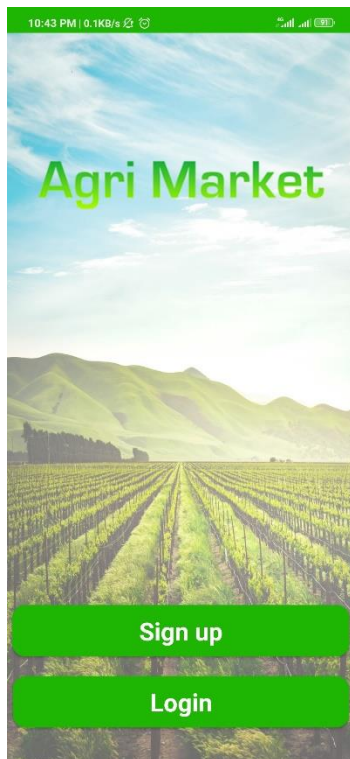
Stimulus/Response Sequences

Use case name	User Login System
Assumption	The actor has able to use the desired function of each roles by registering an account with personal details
Pre-condition	The user has to install app and after opening the application, select the role
Initiation	“Use case when starts when” The actor chooses this option
Main flow of event	<ol style="list-style-type: none">1. User must login using mobile number and password or register a basic user account by entering basic details where mobile number and password are compulsory<ol style="list-style-type: none">o User must agree to the terms and conditionso and create accounto login again2. The system verifies the username and password3. User can register with desired roles as Seller or a user

Exceptional flow of the event	<ol style="list-style-type: none"> 1. Missing username or password <ul style="list-style-type: none"> • The system displays forget username & password • System generates temporary password and send to email/mobile SMS. • Use case resumes at main flow step 1 2. Invalid username or password <ul style="list-style-type: none"> • The system displays invalid username or password • The system prompts for correct username & password • Use case resumes at main flow step 1
Post-conditions	<p>The system displays the suitable UI and login successfully to selected role</p> <p>Save the activities in the system log</p>



2.4. User Interfaces



10:57 PM | 0.5KB/s

Set Questions

Set the answers for following security questions

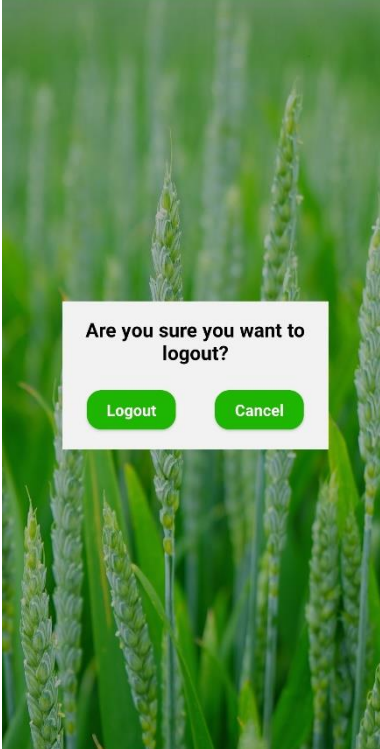
What is your favorite color?

What is your mother's name?

SET

10:58 PM | 0.8KB/s

Agri Market



Are you sure you want to logout?

Logout **Cancel**

10:58 PM | 0.4KB/s

Reset Password

Please write your phone number...

Answer the Following Security Questions

What is your favorite color?

What is your mother's name?

VERIFY

8:39 PM | 0.2KB/s


Please write your Delivery Details

SLTC ICE 1

0712222222

Sos, sos, sos

Select Payment Method:




Total Price = Rs.7800

CONFIRM

8:38 PM | 2.4KB/s

← Carrot SEARCH



Carrot

Fresh, 1Kg packs

Price = Rs.200

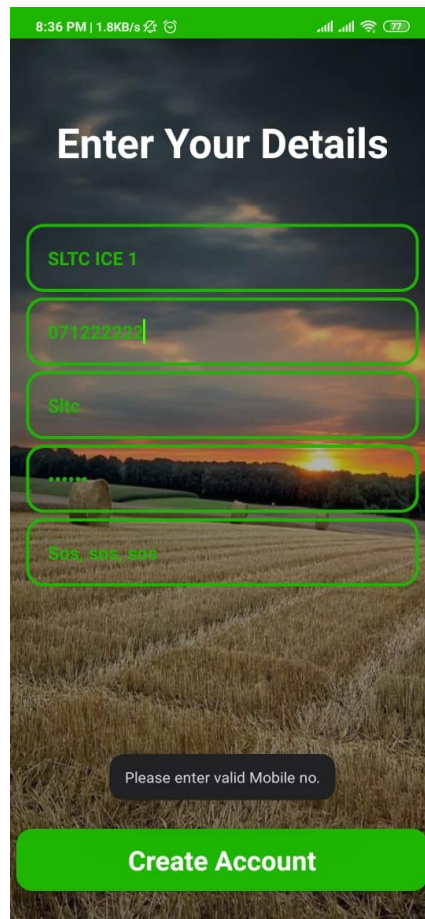
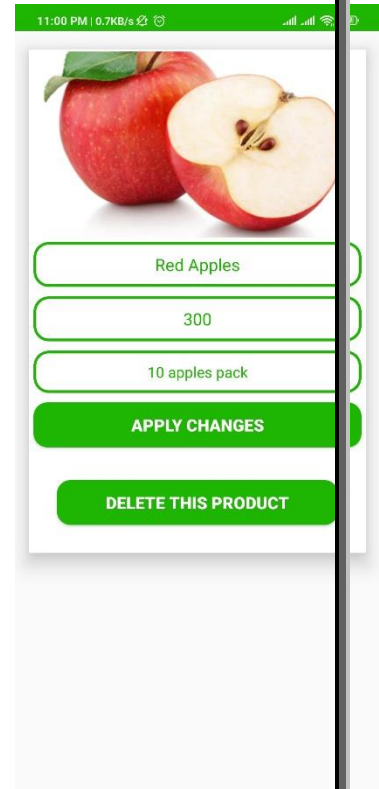
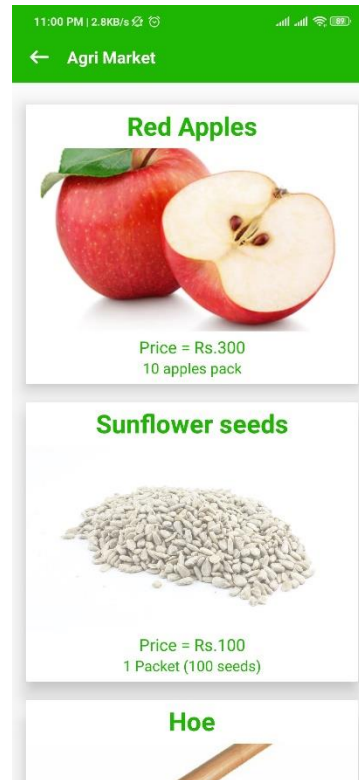
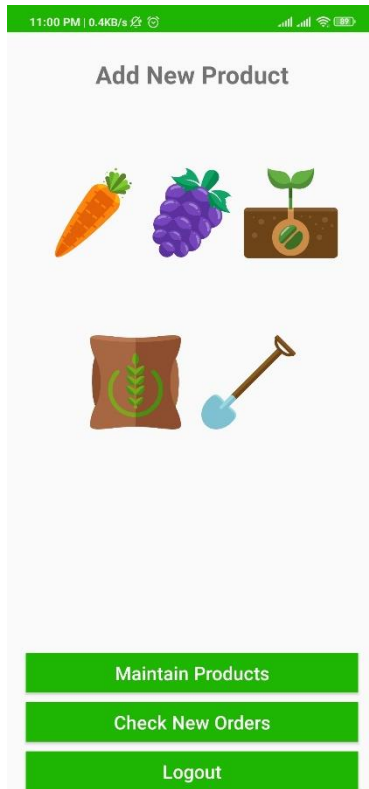
8:48

Total Price = Rs.1790

Carrot	Quantity = 1
Price = Rs.200	
Spray	Quantity = 1
Price = Rs.1500	
Onions	Quantity = 1
Price = Rs.90	

VIEW TOTAL PRICE

NEXT



2.5. Test Case

Test Case ID: Test_002	Test Designed by: Agri market Developers
Test Priority (Low/Medium/High): High	Test Designed date: 2020.06.01
Module Name: User Management System, Product Management System	Test Executed by: Agri market Developers

Description: Testing the login, Sign Up and Forgot Password options of the Agri market App developed by development Team

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Navigate to Welcome Page (Login and Sign Up) page	-	User should be able to choose login or Sign Up	User should be able to choose login or Sign Up	Pass
2	Navigate to welcome page and click-on sign-up button, then Sign Up Page will show up	-	Sign Up form will be show up	Sign up form has shown scornfully	Pass
3	Creating a user account by filling sign up form and click on "Create Account" button	Name – Hiruni Mobile Number – 1111111111111111 Email – hiruni@sltc.ac.lk Password – hiruni4453	Page will show error as "invalid Mobile Number"	Page will show error as "invalid Mobile Number"	Pass

4	Creating a user account by filling sign up form and click on “Create Account” button	Name – Hiruni Mobile Number – 0714434467 Email – hirunisltack@gmail.com Password – hiruni4453	Page will show error as “invalid E Mail Address”	Page will show error as “invalid E Mail Address”	Pass
6	Updating Profile Picture through settings	1:1 Cropped Profile Picture	Profile Picture will be updated	Profile Picture will be updated	Pass
9	Setting Up Security Questions	Answers for Security Questions as 1) Red 2) Sumitra	Two Text boxes will appear with Set Security options Confirmation Button	Two Text boxes appeared with Set Security options Confirmation Button	Pass
9	Step 1 to Log out from user account	-	Dialog box will to show as “Are you sure you want to logout” and showing buttons options as “Yes” and “No”.	Dialog box showed as “Are you sure you want to logout” and showing buttons options as “Yes” and “No”.	Pass
10	Step 2 to Log out from user account by clicking on “Yes” Button	-	Account has to logout and redirect to welcome page showing the notification as “Logged Out Successfully”	Account logged out and redirect to welcome page showing the notification as “Logged Out Successfully”	Pass
11	Go to login screen and select “Forgot Password Option”	-	Reset Password Option Screen will show up with 3 text boxes	Reset Password Option Screen has shown up with 3 text boxes	Pass
12	Resetting Password	Username (Mobile Number or Email) Security Question Answer 1 = Red Security Question Answer 2 =	After filling correct information in 3 text boxes and tapping “Verify” button, New Password Text Box Will Show up. Then we can Enter the New Password and after Clicking Change	After filling correct information in 3 text boxes and tapping “Verify” button, New Password Text Box Has Shown up. Then we can Enter the New Password and after Clicking	Pass

		Sumithra New Password	button it will redirect to login page	Change button, app redirected to login page	
13	Admin Login	Mobile Number = 0717026986 Password Admin1234	Admin Option screen will Show up	Admin Option screen has Shown up successfully	Pass
14	Trying Maintain Products Options	Product Name Product Unit Price Product Unit	Product search and browse list will show up. Then in each selected product menu we can edit Product Name Product Unit Price Product Unit And apply changes	Product search and browse list will show up. Then in each selected product menu we can edit Product Name Product Unit Price Product Unit And apply changes	Pass
15	Checking new Orders	-	New Orders Page will show up	New Orders Page has been shown up	Pass

Pre-conditions: User has valid username and password

Dependencies: User must have valid E-mail/Mobile Number account and Strong Password

03. Product Browsing & User Cart System

2.2 UML – User case Diagram

Description and Priority

This feature allows customers to browse each product and buy products accurately and more efficiently.

Ratings (0-9)	
Priority	10
Benefit to the user	9
Cost	4
Risk	6

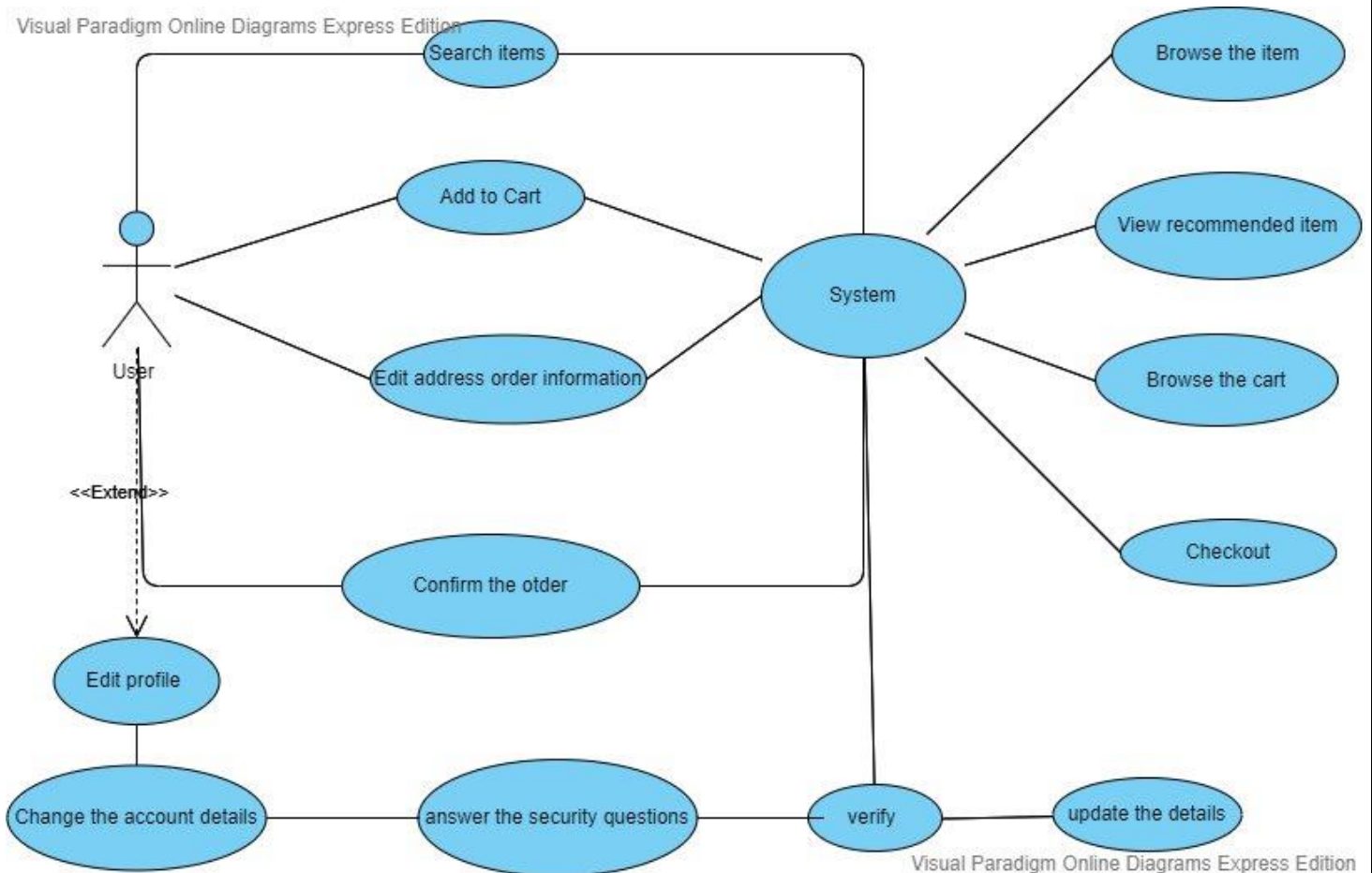
Stimulus/Response Sequences

Use case name	Product management
Assumption	The actors able to browse each product category and add to cart and list down your stocks with correct details with measuring units
Pre-condition	The user has to login to a user account after selecting the desired role
Initiation	“Use case when starts when” The actor chooses this option
Main flow of event	Seller must login using mobile number and password or register a basic user account by entering basic details where mobile number and password are compulsory. a. Then sellers are able to upload their product information with pictures, product name and price after selecting the product category. b. The product enters to the item list by giving approval of the item
Exceptional flow of the event	1. Missing username or password • The system displays forget username & password • System generates temporary password and send to mobile SMS. • Use case resumes at main flow step 1 2. Select the category and add the product

Post-conditions

The system displays the suitable UI and login successfully to selected role Save the activities in the system log

Visual Paradigm Online Diagrams Express Edition



Test Case

Test Case ID: Test_002	Test Designed by: Agri market Developers
Test Priority (Low/Medium/High): High	Test Designed date: 2020.06.24
Module Name: Product Browsing & User Cart System	Test Executed by: Agri market Developers

Description: Testing the Browsing product lists and cart functions of the Agri market App developed by development Team

Pre-conditions: User has valid username and password

Dependencies: User must have valid E-mail/Mobile Number account and Strong Password

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Navigate to product view	-	User should be able to choose categories of product	User should be able to choose categories of product	Pass
2	Choose and click on the category	-	Product wants to show for the category	Products shown	Pass
3	Click on sidebar	-	List of options has to show to select	Options were displayed.	Pass
4	Click on cart option	-	Direct to customer cart page and next button will show with total price	Cart and next button were shown total price only appears when the button tapped	Fail
5	Click on next option	-	Page will show that user have to enter delivery	Delivery detail form was appeared	Pass

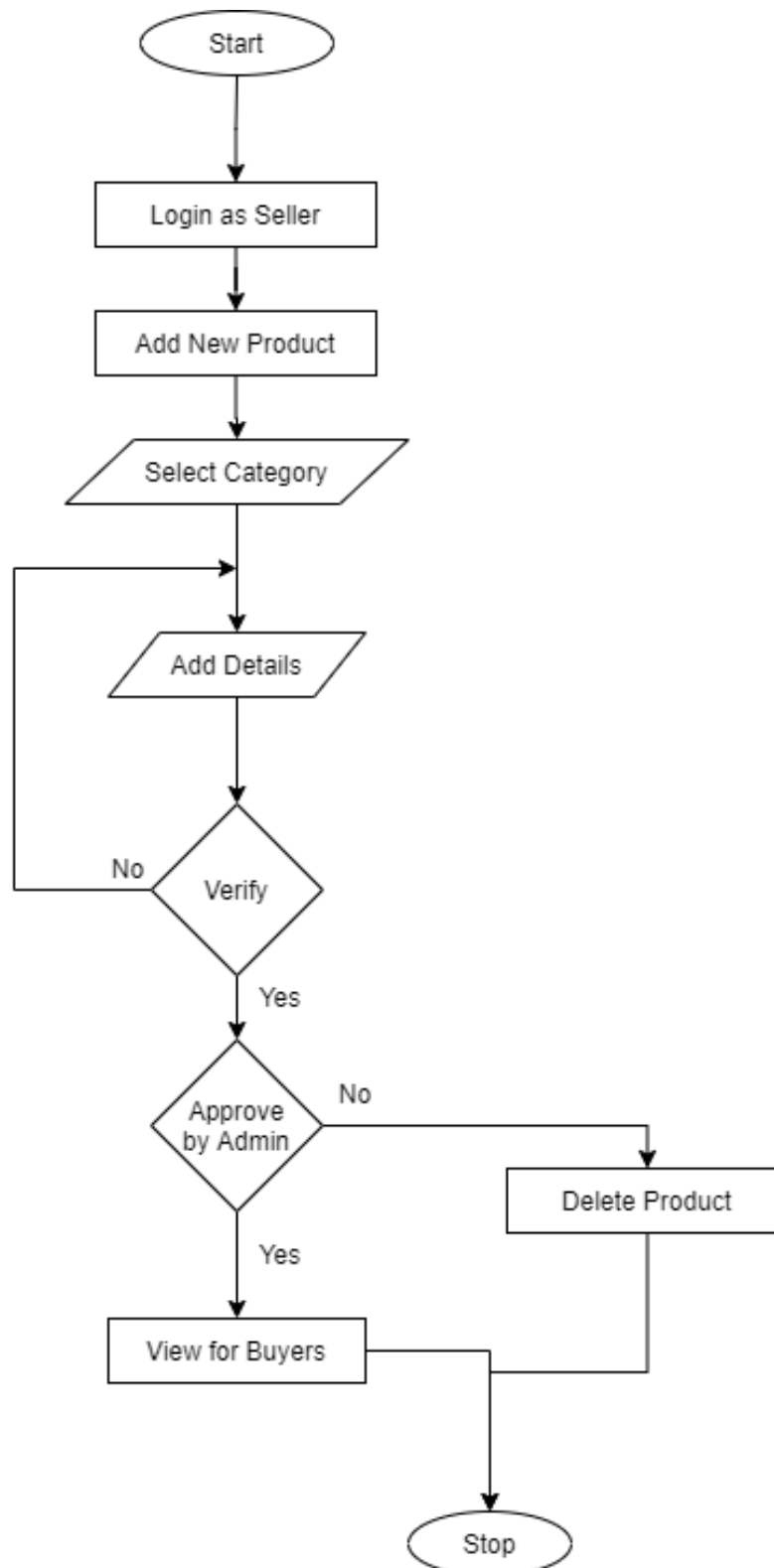
			details		
5	Searching Item	Go to Search and Entering “Carrot”	Carrot Item Product Will Show up	Carrot Item Product will only Show up	Pass
7	Add items to the cart and viewing cart, after that selecting “View Total Price”	-	Total Price will appear in Upper bar	Total Price will appear in Upper bar	Pass
8	Tapping Next button in the Cart	-	Pre-Entered Profile and Location delivery details show up in text boxes (Auto Filled Data)	Pre-Entered Profile and Location delivery details show up in text boxes (Auto Filled Data)	Pass
7	User have to enter product name	Product name	Search idem has to display	Item displayed what user entered to search	Pass
8	Click on category option	-	User should be able to choose categories of product”	User should be able to choose categories of product”	Pass
9	Click on setting option	-	Edit profile option has to shown	Edit profile option displayed	Pass
10	Click on Edit profile option	-	Edit profile form has to show	Edit profile form showed	pass
11	User has to enter details and click on set security questions	Enter Mobile number, Name, Password and address	User details has to verify and navigate to set security question page	security question page showed and details were verified	pass
12	Set security questions and click set button	Answer of questions	Set all details and navigate to home	All details were updated and home page showed	pass
13	Product Searching	Product Name with correct spellings	After Typing the name of the product, the product will appear	Searched product and other products also appear	Fail

14	Selecting Payment Methods	-	After selecting payment method, desired payment screen will appear	No Response	Fail
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Pre-conditions: User is validated with database and successfully login to account. The account session details are logged in database.

4. Products Management System

4.1 Flow Chart



4.2 UML – User Case Diagrams

Description and Priority

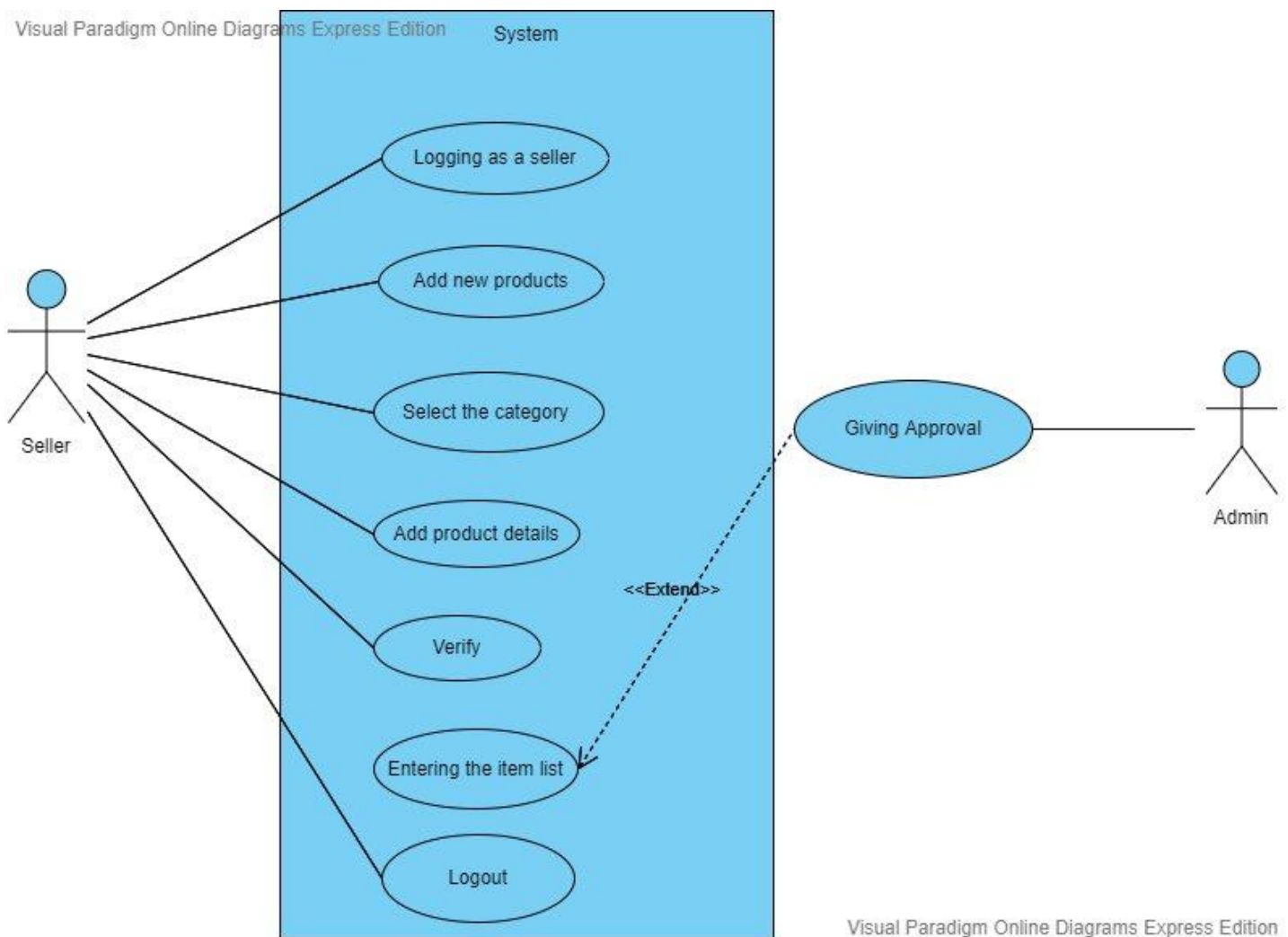
This feature allows customers to browse each product and buy products accurately and more efficiently.

Ratings (0-9)	
Priority	10
Benefit to the user	9
Cost	4
Risk	6

Stimulus/Response Sequences

Use case name	Product management
Assumption	The actors able to browse each product category and add to cart and list down your stocks with correct details with measuring units
Pre-condition	The user has to login to a user account after selecting the desired role
Initiation	“Use case when starts when” The actor chooses this option
Main flow of event	Seller must login using mobile number and password or register a basic user account by entering basic details where mobile number and password are compulsory. c. Then sellers are able to upload their product information with pictures, product name and price after selecting the product category. d. The product enters to the item list by giving approval of the item

Exceptional flow of the event	<p>3. Missing username or password</p> <ul style="list-style-type: none"> • The system displays forget username & password • System generates temporary password and send to mobile SMS. • Use case resumes at main flow step 1 <p>4. Select the category and add the product</p>
Post-conditions	The system displays the suitable UI and login successfully to selected role Save the activities in the system log



4.3 Test Cases

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Seller Create Account	Email Phone Number Password (Minimum 6 Characters)	Creating a Seller account and displaying the seller menu	Seller account created and displayed the seller menu	Pass
2	Seller Login	Phone Number Password	Logging in to seller menu screen	Logging in to seller menu screen	Pass
3	Browsing My Products	-	Displaying selling Products (existing products)	Displaying selling Products (existing products)	Pass
4	Add New Product to sell	Product category Product Picture Name Description Price	Displaying Text fields and options to add data after filling, tapping on add product option will redirect to seller's home screen	Displaying Text fields and options to add data after filling, tapping on add product option will redirect to seller's home screen	Pass
5	Logout	-	Logout from seller screen and redirect to welcome screen	Logout from seller screen and redirect to welcome screen	Pass
6	Product review and approve by admin	Admin Login Details	After Admin Login, after going to Approve Orders Section, Admins Users can approve Orders pending	After Admin Login, after going to Approve Orders Section, Admins Users can approve Orders pending	Pass

5. User Review System

5.1 UML – Use Case Diagrams

Description and Priority

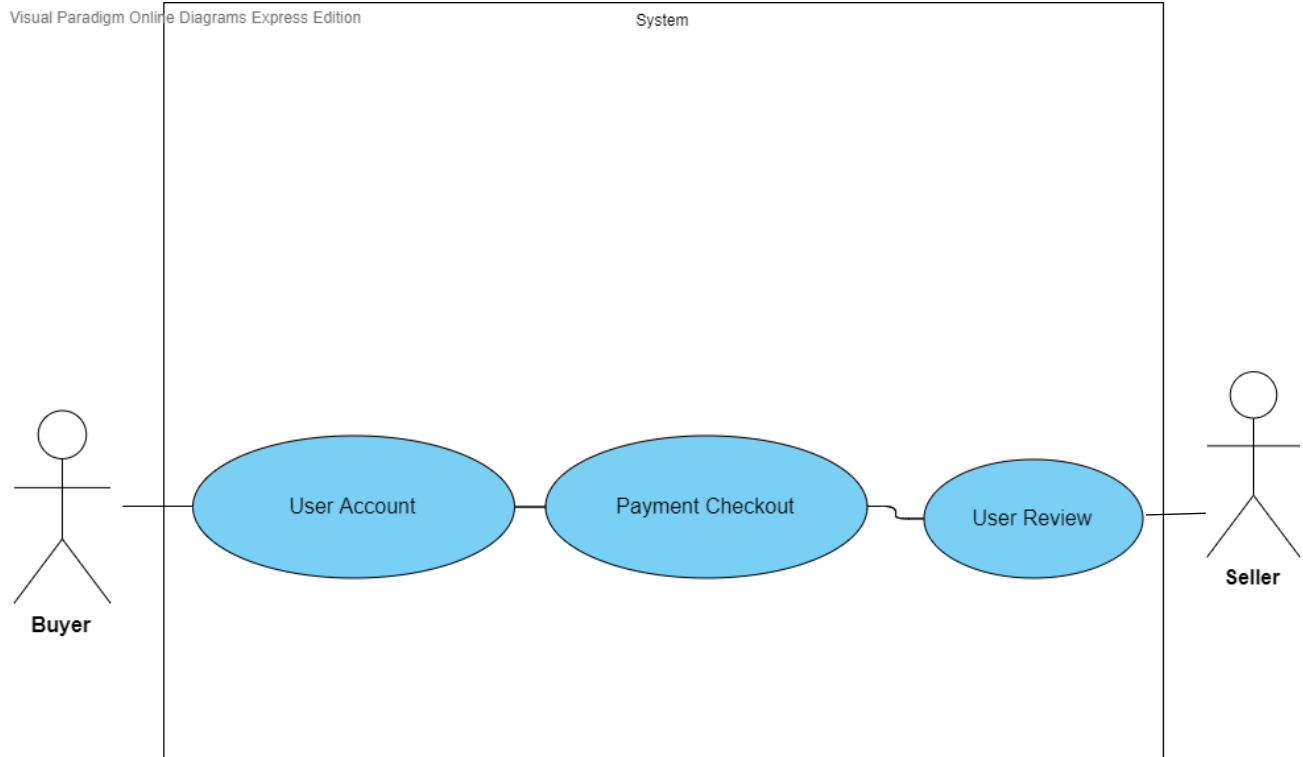
This feature can mostly between the buyer and seller. This will facilitate the buyers to share their experience on sellers.

Ratings(0-9)	
Priority	8
Benefit to the user	8
Cost	0
Risk	4

3.3.2 Stimulus/Response Sequences

Use case name	User Review System
Assumption	The actor has been authenticated so the user details already known to the system.
Pre-condition	The user has register to make use of this feature
Initiation	“Use case when starts when.” The actor(buyer) chooses this option
Main flow of event	<ul style="list-style-type: none">• The actor(buyer) search product.• The actor(buyer) select the product• The actor(buyer) Pay the product• The actor(buyer) give ratings and reviews on next screen about the experience
Exceptional flow of the event	<ul style="list-style-type: none">• User can access this through past order section
Post-conditions	Adding user review to sellers’ profile

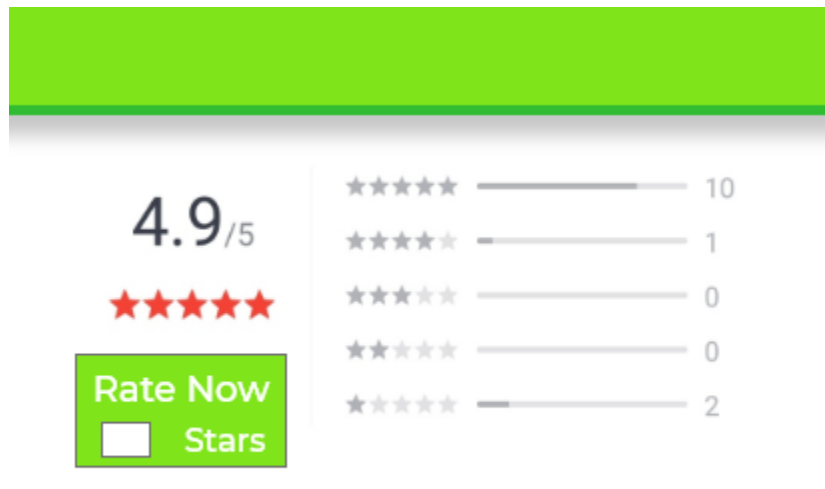
	<p>The system displays the suitable UI and login successfully to selected role</p> <p>Save the activities in the system log</p>
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5.2 Test Case

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	User Reviews after Delivering Order		Order delivery confirmation and User Review Option	NO Order confirmation and User Review Option	Fail

5.3. User Interfaces



6. Chat system

6.1 UML – Use Case Diagrams

Description and Priority

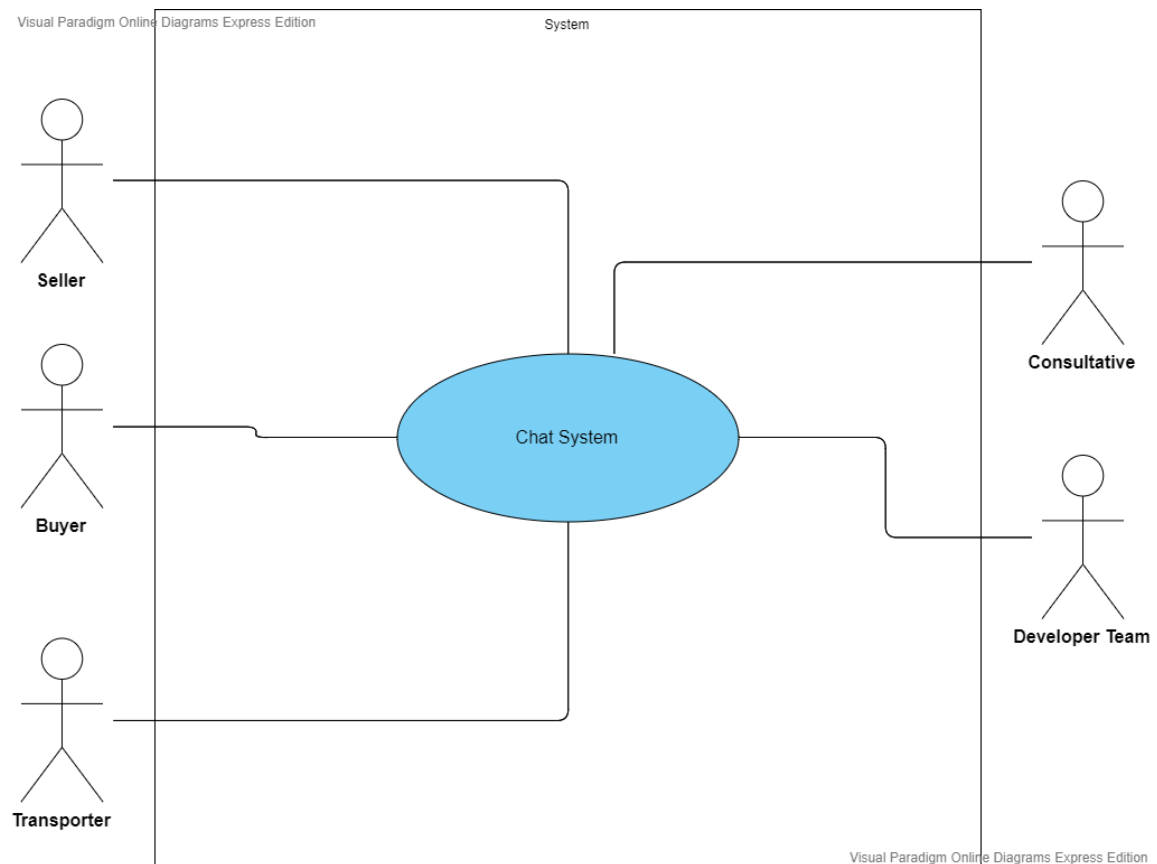
This feature can be used between all the users of the application. They can get connected with each other's while chat option. A farmer to a farmer, a farmer to a seller, a farmer to a delivery service owner, delivery service owner to a seller, etc. they can share their information such as delivery product, delivery location, costs and etc. through the chat option in the application.

Ratings(0-9)	
Priority	8
Benefit to the user	8
Cost	0
Risk	4

3.4.2 Stimulus/Response Sequences

Use case name	Chat option within farmers, sellers and delivery service
Assumption	The actor has been authenticated so the user details already known to the system.
Pre-condition	The user has register to make use of this feature
Initiation	“Use case when starts when” The actor chooses this option
Main flow of event	<ul style="list-style-type: none">• Login to user account and select role• The actor selects the actor who wants to speak• The use case give permission• The actors make conversation through forum
Exceptional flow of the event	User can access this through profile anytime

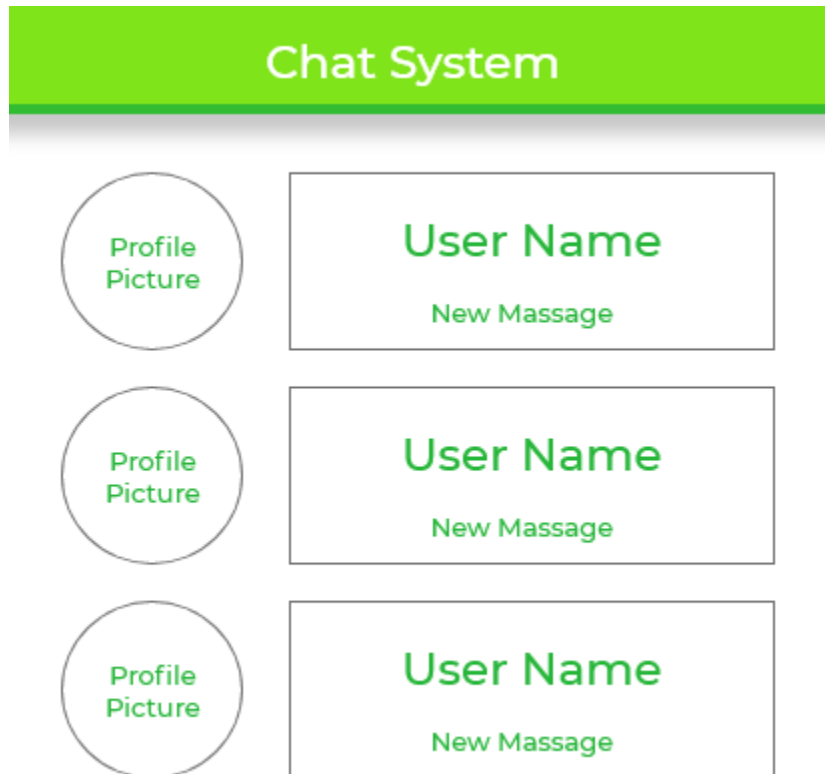
Post-conditions	<p>The Actors made conversation within them.</p> <p>The system displays the suitable UI and login successfully to selected role</p> <p>Save the activities in the system log</p>
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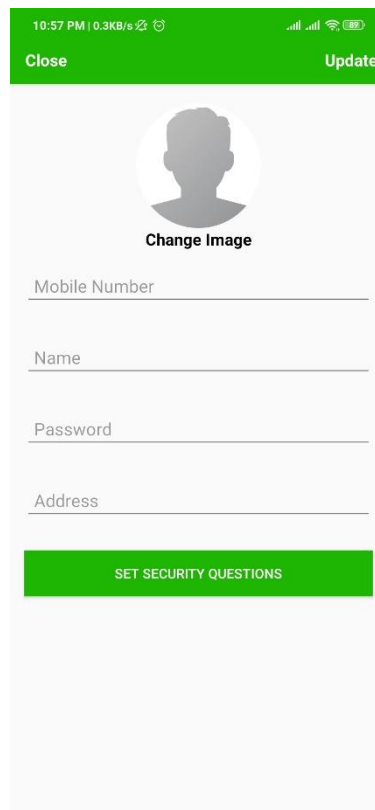
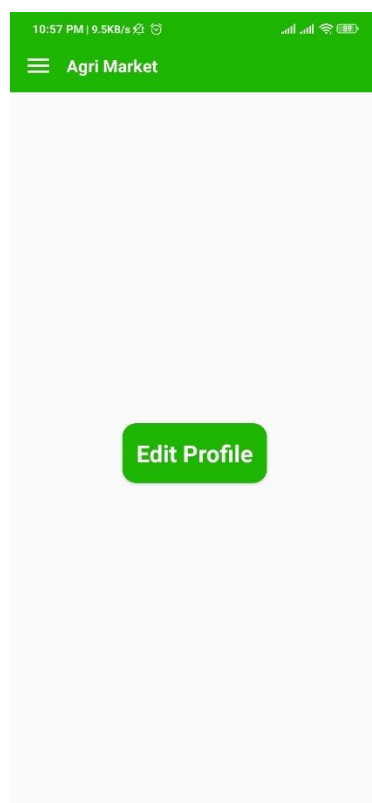
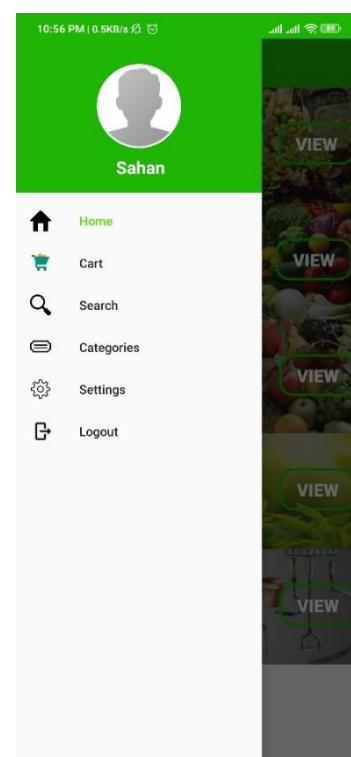
6.2 Test Case

Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Browsing Chat option from side menu bar		Chat with Desired user or admin	No Chat option in side menu	Fail

6.3. User Interfaces



7. User Interfaces -Completed UI Screens



10:57 PM | 0.5KB/s

Set Questions

Set the answers for following security questions

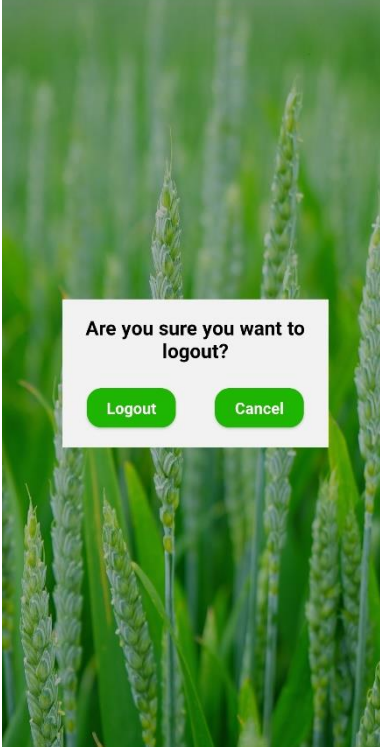
What is your favorite color?

What is your mother's name?

SET

10:58 PM | 0.8KB/s

Agri Market



Are you sure you want to logout?

Logout **Cancel**

10:58 PM | 0.4KB/s

Reset Password

Please write your phone number...

Answer the Following Security Questions

What is your favorite color?

What is your mother's name?

VERIFY

10:43 PM | 3.0KB/s

Agri Market

0712006368

☐ Stay Logged in ☐ Forget Password?

Login

En

q w e r t y u i o p

a s d f g h j k l

z x c v b n m

7123 English

10:58 PM | 1.9KB/s

Reset Password

0714453446

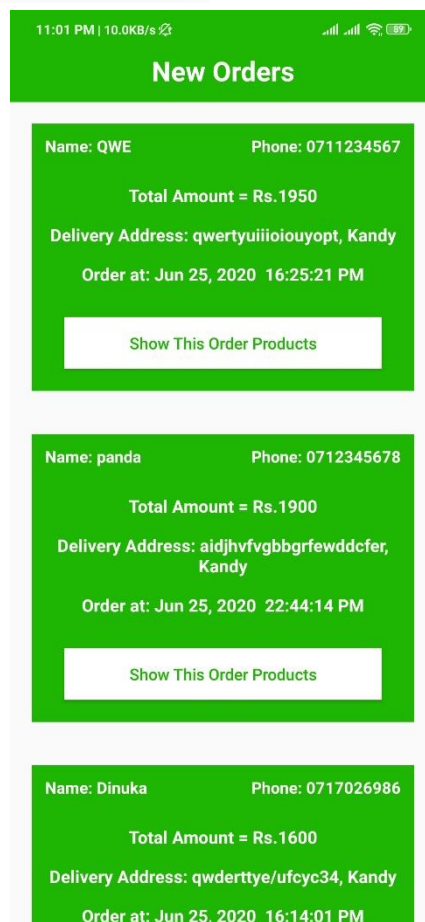
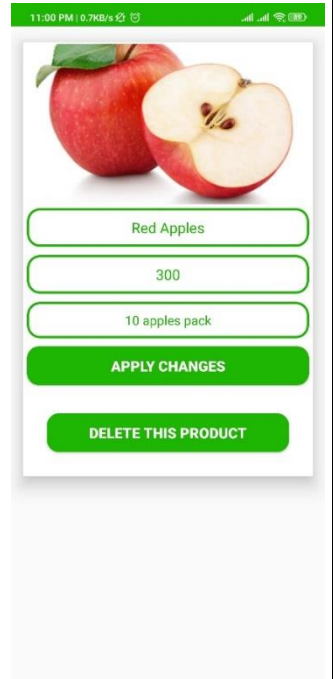
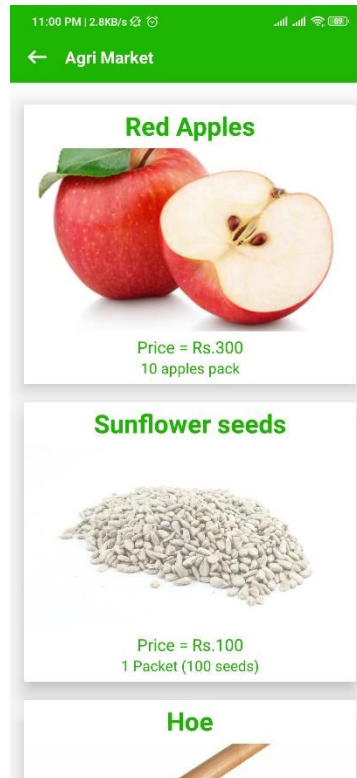
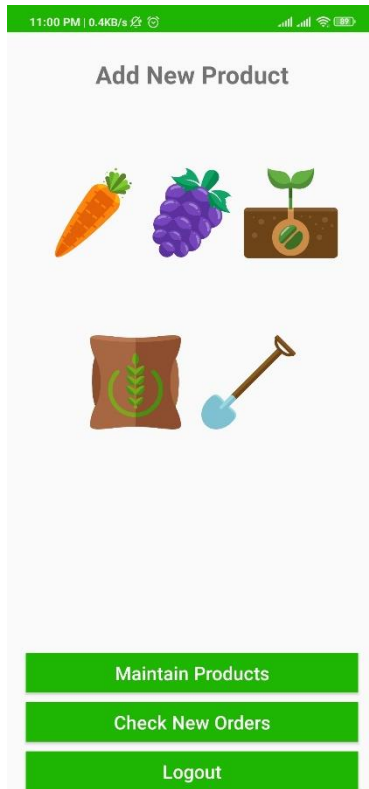
Answer the Following Security Questions

Red

New Password

Enter New Password

CANCEL **CHANGE**



Expected User Interface Designs

Agri Market

Choose a Language

Sinhala

Tamil

English

Login

Enter Your Details

E-Mail

Password

☐ Remember me

Login

WELCOME

Agri Market

Register

Login

Register

Enter Your Details

First Name

First Name

Gender

Address Line 1

Address Line 1

E - mail


Password

Retype Password

Create Account

- This application contains all the languages.
- So, there will be no difficulty in usage in all the island in different cultures.
- Everyone has to create a user account in order to use the application by entering basic details.


Market



Cucumber 100 Pcs Japanese mini cucumber vegetable for home NO-GMO ...

LKR 110.63
LKR-290-17 -62%


Free Delivery
5.0 ★ 452 Sold



Vegetable Potted Tomato Dwarf Edible Balcony Garden-Plant Sweet Big...

LKR 43.53
LKR-108-82 -60%


Delivery LKR 400
4.8 ★ 1254 Sold



Sale! 100 Pcs/bag Giant Tomato plants Organic Heirloom plants Vegetables Per...

LKR 38.09
LKR-179-54 -79%


Free Delivery
4.9 ★ 2186 Sold



Bonsai Potted-Plants Chili Vegetable-Fruit DIY Home Garden Long Gaint Red for He...

LKR 38.09
LKR-179-54 -79%


Delivery LKR 540
5.0 ★ 747 Sold



Fullstar vegetable cutter Kitchen accessories Mandoline Slicer Fruit Cutte...

Find Location

See travel times, traffic and nearby places



Agri Guidance

තවත් පාත්ති සැකසීම

මේ සඳහා තෝරා ගත යුත්තේ තරමක සෙවනක් ඇති ස්ථානයකි. වැලි, ඔලිව්ට පස්, කාබනික පොහොර, සහ දහසිය ගණන් 2:2:2:1 අනුපාතයට මිශ්‍රකර කර සෙ.මී. 10 ක පමණ උස මීටර් 01 පළල තවත් පාත්ති සකස් කර ගන්න.

මෙම පාත්ති වලට වර්ග මීටරයකට සාන්ද්‍රතා සුපර් පොස්පේට් (TSP) ග්‍රෑම් 450 - 500 ක් පමණ මිශ්‍ර කළ යුතුය. මෙසේ සාදාගත් පාත්ති වල සෙස්ට් මීටර් 5 - 6 පමණ ගැඹුරට සෙස්ට් මීටර් 10 පරතරයට කුඩා කාතු සාදා ගත යුතුය.

කැබලි තවත් තීරීම

ප්‍රතිකාර කර ගත් අත්තනික කඳක් කැබලි කැපුම් බ්‍රිසුණාභ සටට සිටින සේ තීරස් ලෙස තැන්පත් කර හොඳින් වසන්න. ඉන්පසු ජල සම්පාදනය කර තරමක සෙවනක් යටතේ පවත්වා ගැනීම අවශ්‍ය වේ.



Agri Market

- In the market UI, users can scroll and browse the products using the list. All the essential details like price, delivery fees, seller are displayed in the product description.
- In the Delivery location find UI, users can take a look at map position of transport operator
- In the consultancy service, users can scroll and browse more detailed guidance service to educate themselves about modern trends. This is a very easy UI.

My Account

App Settings

Edit Profile Details

Profile
Picture

User Name

Access Roles

Transporter

Access

Seller

Access

Buyer

Access

Access Seller Account

Enter Your Details

First Name

Last Name

Gender

Address Line 1

Address Line 2

ID Number

Password

Seller Type

Access

Access Buyer Account

Enter Your Details

First Name

Last Name

Gender

Address Line 1

Address Line 2

ID Number

Password

☐ Agree Terms and Conditions

Access

Access Transporter Account

Enter Your Details

First Name

Last Name

Gender

Address Line 1

Address Line 2

ID Number

Password

Vehicle Capacity

Vehicle ID

Access

After Account creation, users can access their desired roles with functions

Product add screen for sellers

My Cart

Product Picture	Product Description	Delivery Fees Free/Paid	Units	Price
Product Picture	Product Description	Delivery Fees Free/Paid	Units	Price
Product Picture	Product Description	Delivery Fees Free/Paid	Units	Price

Total Rs \$\$\$\$.\$\$

Proceed To Checkout

Go Back

Add Product

Add Product to Sale

Description

Unit Price

Unit

Stocks left

Category

Expire date

Upload Picture



☐ Agree Terms and Conditions

Add

Buyers shopping cart
where they can add
products to checkout Cart

Chat System



User Name

New Message



User Name

New Message



User Name

New Message

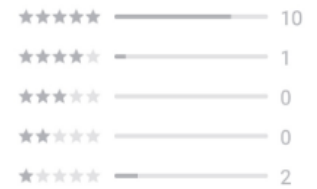
4.9/5



Rate Now



Stars



User Review System

- Adding Payment Options

Payment Options

Select
Payment
Method

Bank Payment

Card Payment

Add Bank Account

Enter Your Details

Name

Account Number

Bank

Branch

Address

Password

Add

Add Payment Card

Enter Your Details

Name

Card Code

CSC

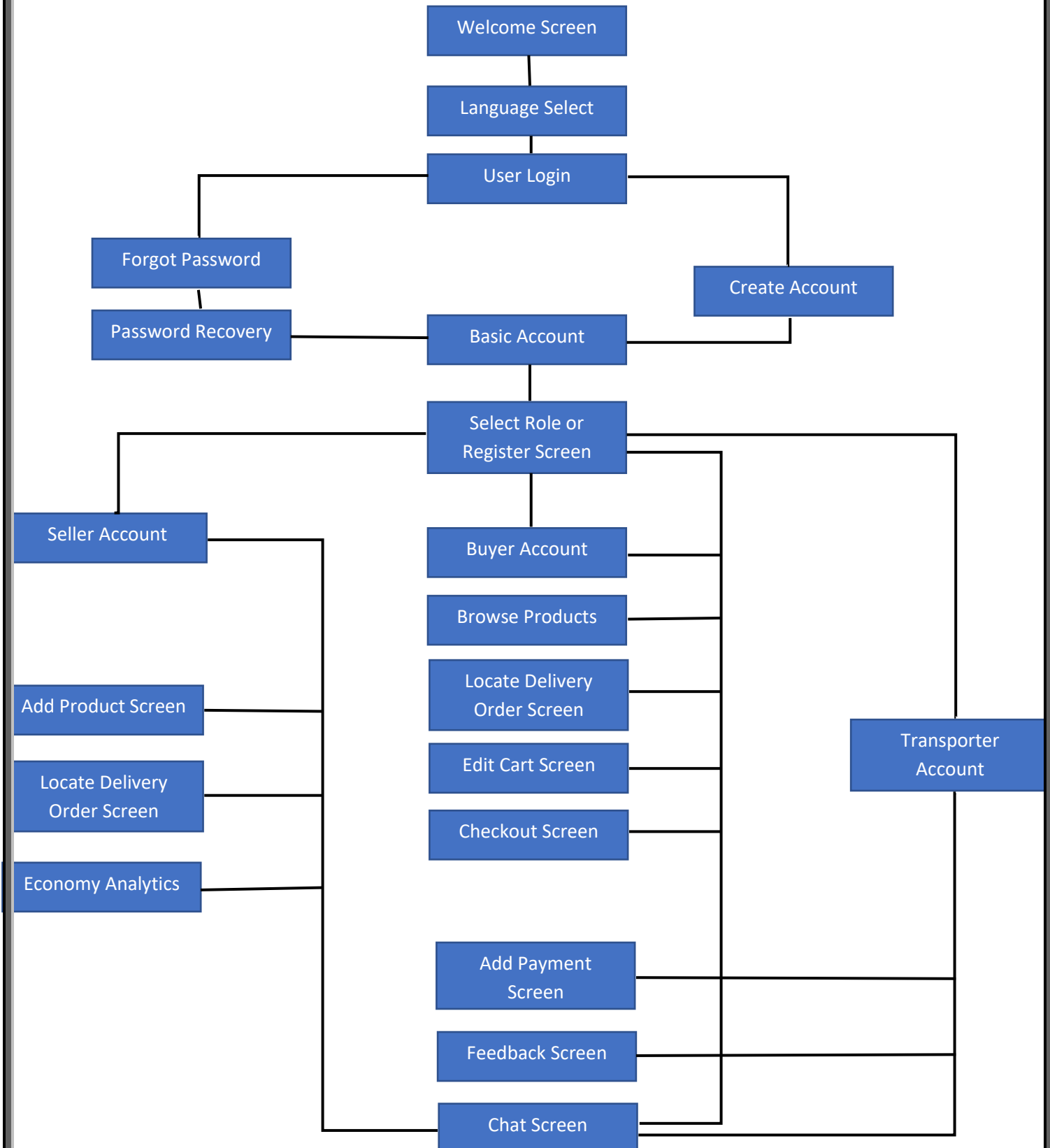
Expire Date

Address

Password

Add

User Interface Flow Diagram



Reg No	Name	Contribution
1074	H.E.M.W.I.G.D.G. Ekanayake	<ul style="list-style-type: none"> • Main Developer • Database Designer • Tester
905	S.S. Arunjith	<ul style="list-style-type: none"> • Tester • UI Design • Documentation
1038	H.M.N.I. Nimeshana	<ul style="list-style-type: none"> • Testing • UI Designer • Documentation
1081	B.M.H.T. Balasooriya	<ul style="list-style-type: none"> • Testing • Documentation • Project Management