Sprint 2 Backlog

“Agri Market” Agriculture Development Mobile Application Project

Agri Market

Group B

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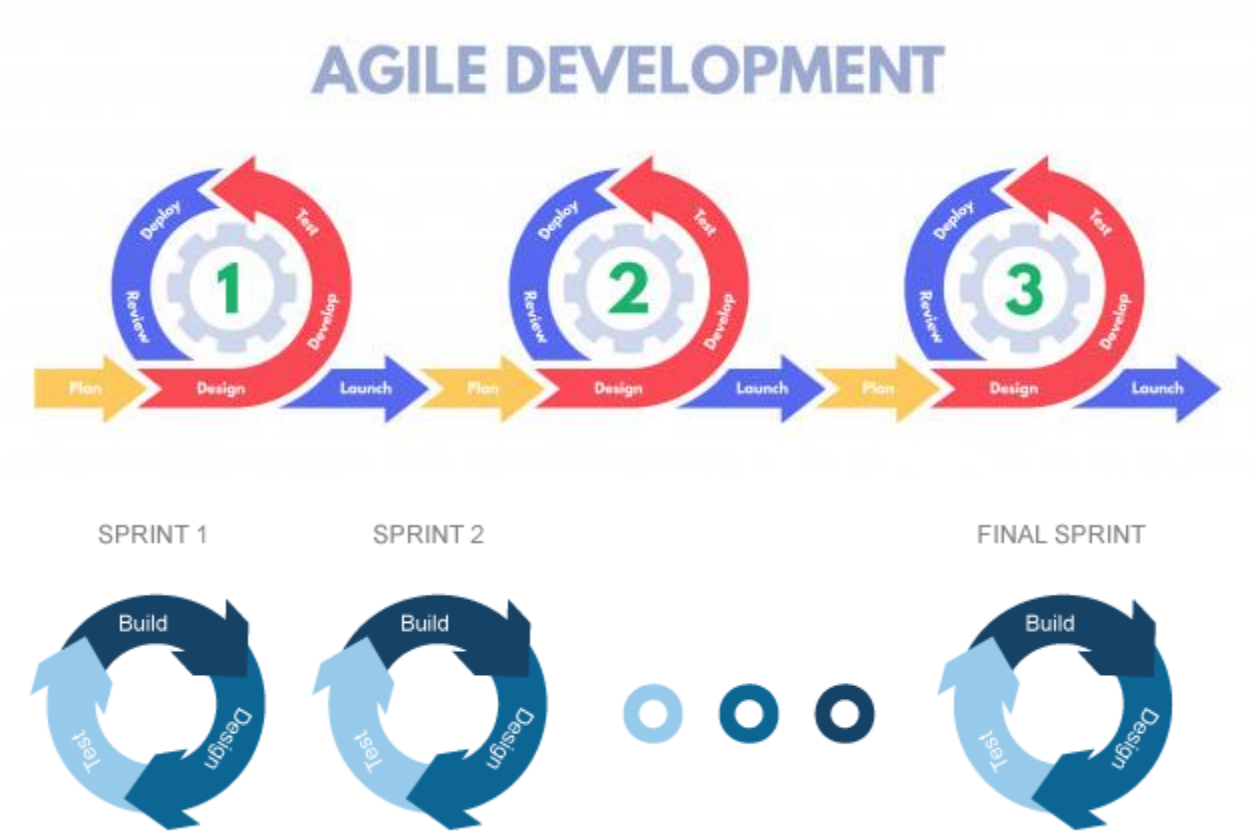
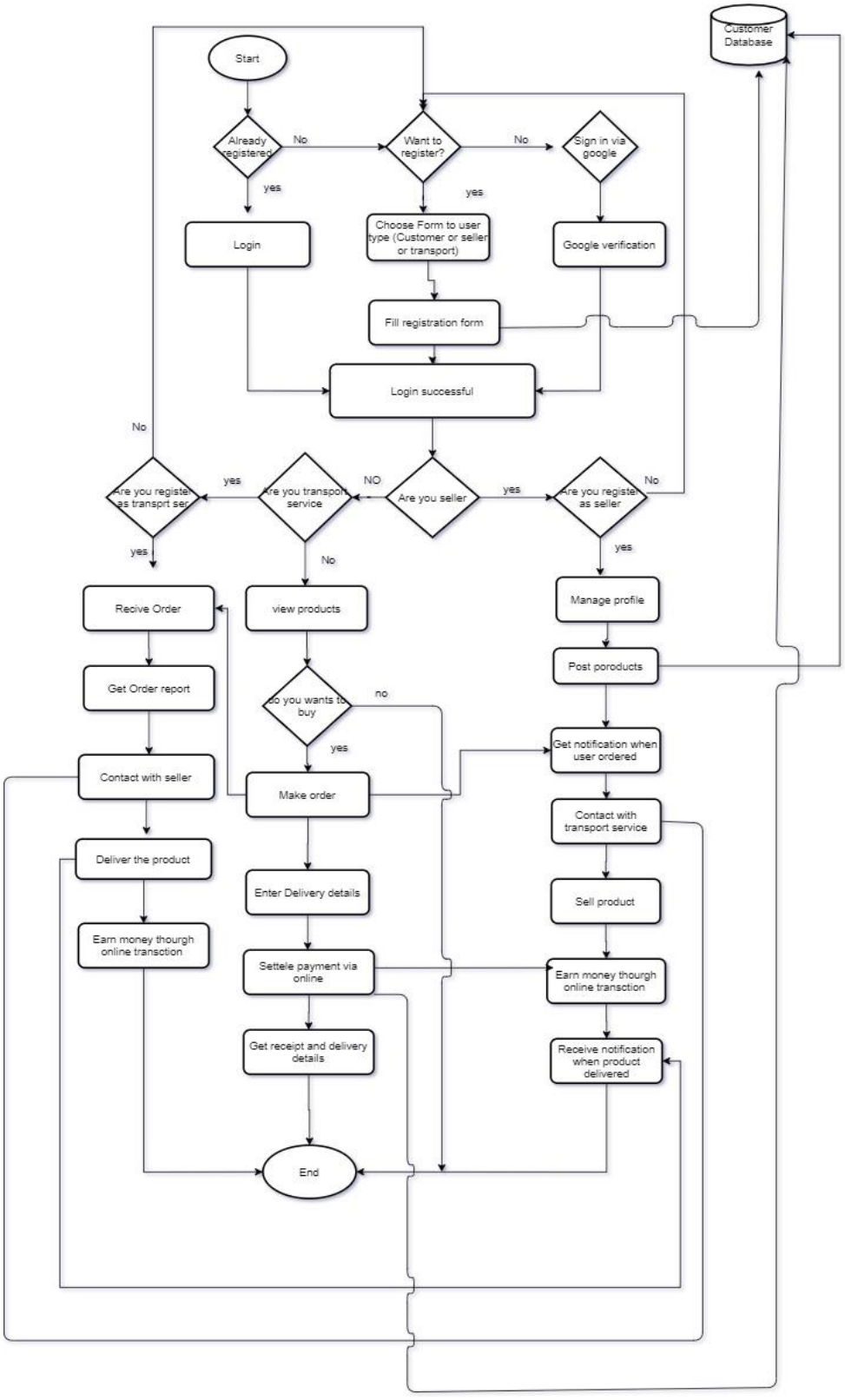
01. Introduction



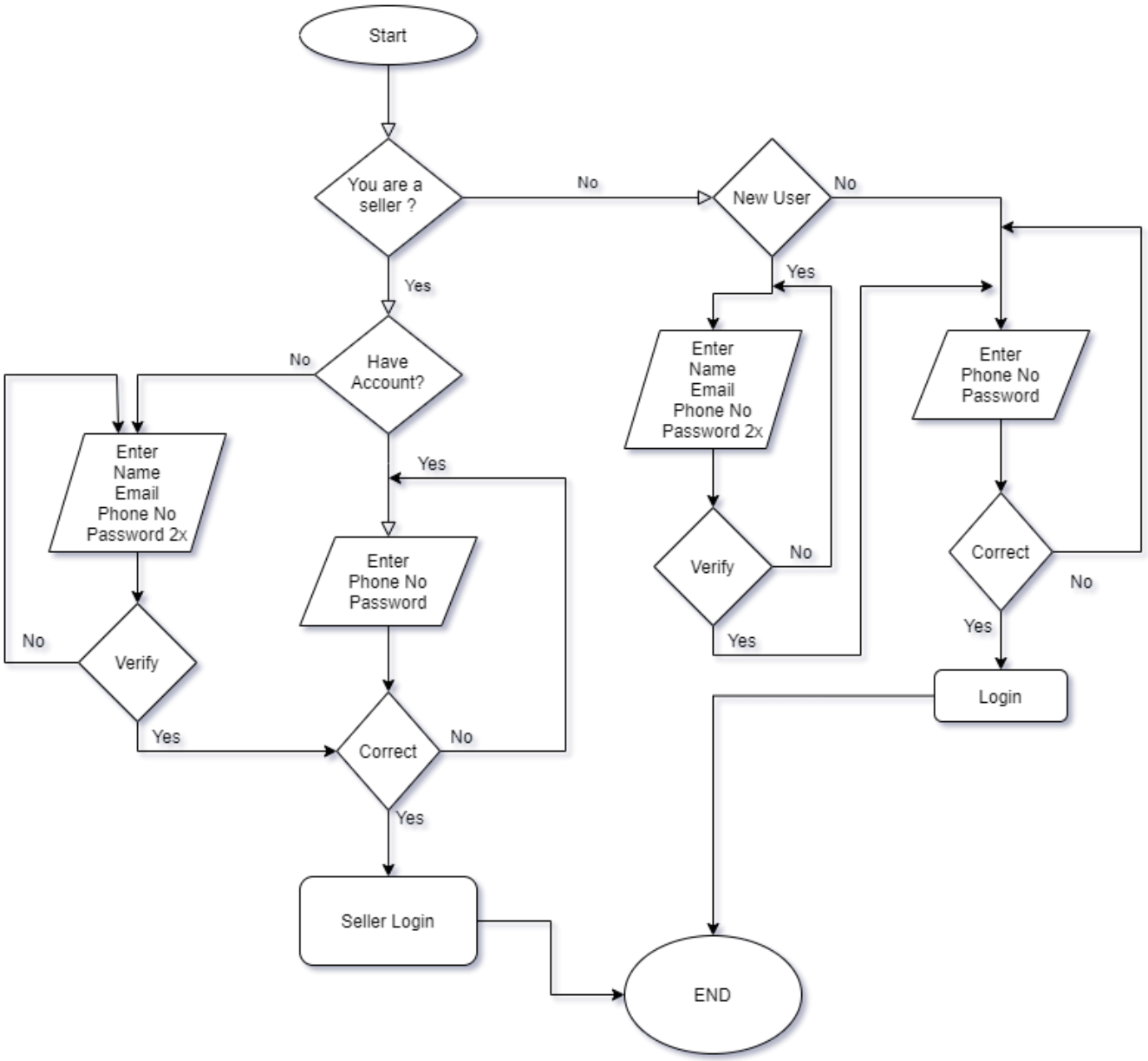
"Scrum", the most popular agile framework in software development, is an iterative approach that has at its core the "*sprint*" the scrum term for iteration. Scrum teams use inspection throughout an agile project to ensure that the team meets the goals of each part of the process.

1.1 Full Systems Overview – Flow Chart

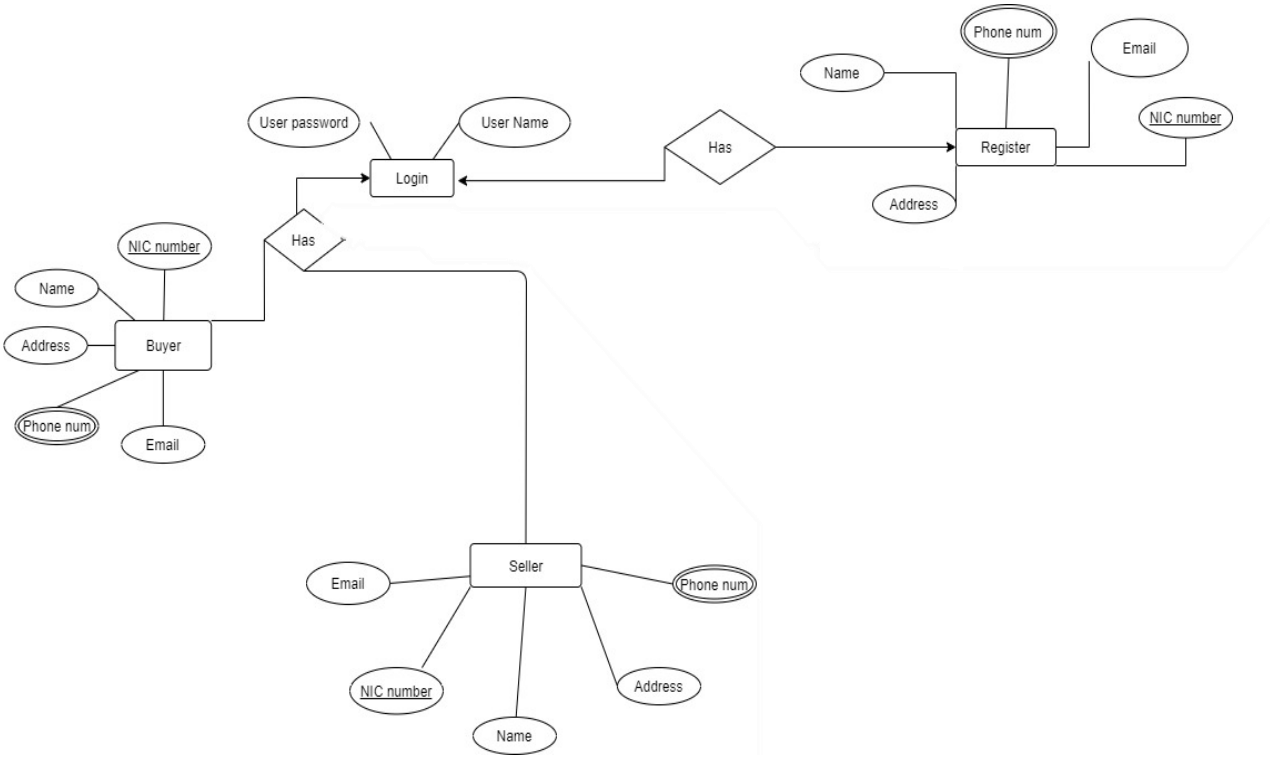


02. Login Management system

2.1 Flow chart



2.2 ER Diagram



2.3 UML – User Case Diagram

Description and Priority

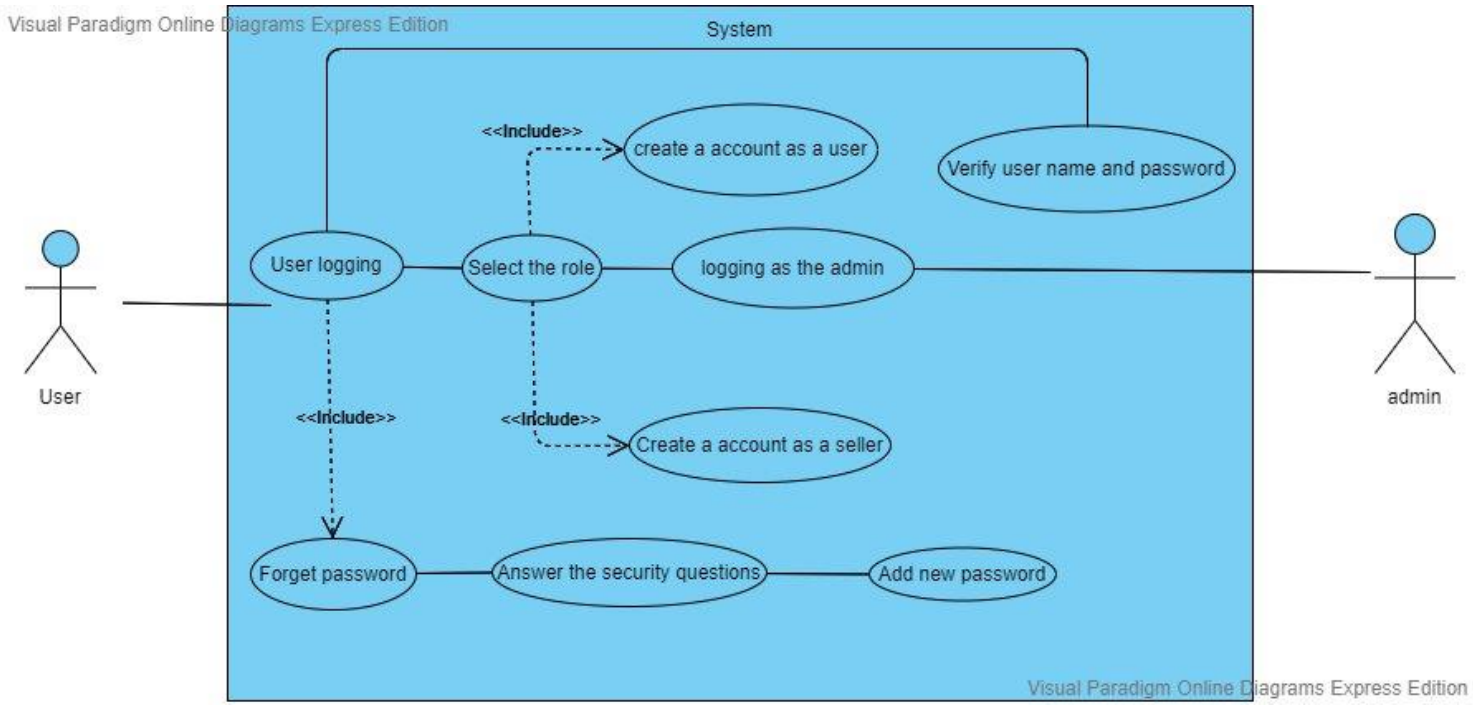
This feature allows customers to browse each service correctly. As application is used by main 3 types of customers sellers, buyers, transporter operators. Each account has its own facilities. This is the gateway that divides the users.

	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	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 o User must agree to the terms and conditions o and create account o login again 2. The system verifies the username and password 3. User can register with desired roles as Seller or a user

Exceptional flow of the event	1. Missing username or password • 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 • The system displays invalid username or password • The system prompts for correct username & password • Use case resumes at main flow step 1
Post-conditions	The system displays the suitable UI and login successfully to selected role Save the activities in the system log



7. Test Case

Test Case ID: Test_001	**Test Designed by:** Agri market Developers
Test Priority (Low/Medium/High): High	**Test Designed date:** 2020.06.01
Module Name: User 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)
	Selecting a Language	-	User can select a suitable in app language	No Language select option and UI screen option for selecting a language	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 clip-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 – 071 663 5778 Email – hiruni@sltc.ac.lk Password – hiruni4453	User Account will be created through this page and redirect to welcome page.	Page will show toast as account has created and navigate to login page.	Pass
4	Click on Login button	-	Direct to login Page screen	Direct to login Page screen successfully	Pass
5	Filling Login details and Click on Login Button	Mobile Number (071 663 5778) And Password (hiruni4453)	Login and redirect to Home Page	Successfully Logged on to User Account and redirect to Home Page	Pass
6	Loading Logout option button	-	Have to Show logout button on side menu.	logout button successfully shows on side menu.	Pass
7	Loading Settings menu From Side menu	-	Edit Profile Button will show up	App shows Edit Profile Button	Pass
8	Setting Up Security Questions	Answers for Security Questions as 1) Red 2) Sumithra	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 = Sumithra New Password	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 button it will redirect to login page	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 Change button, app redirected to login page	Pass
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

16	Approve new order	-	New orders will appear on this screen, and can be approve	New orders appear on this screen, and can be approve	Pass

Pre-conditions: User has valid username and password

Dependencies: User must have valid Mobile Number account and Strong Password

03. Product Browsing & User Cart System

2.2 UML – User case Diagram

Description and Priority

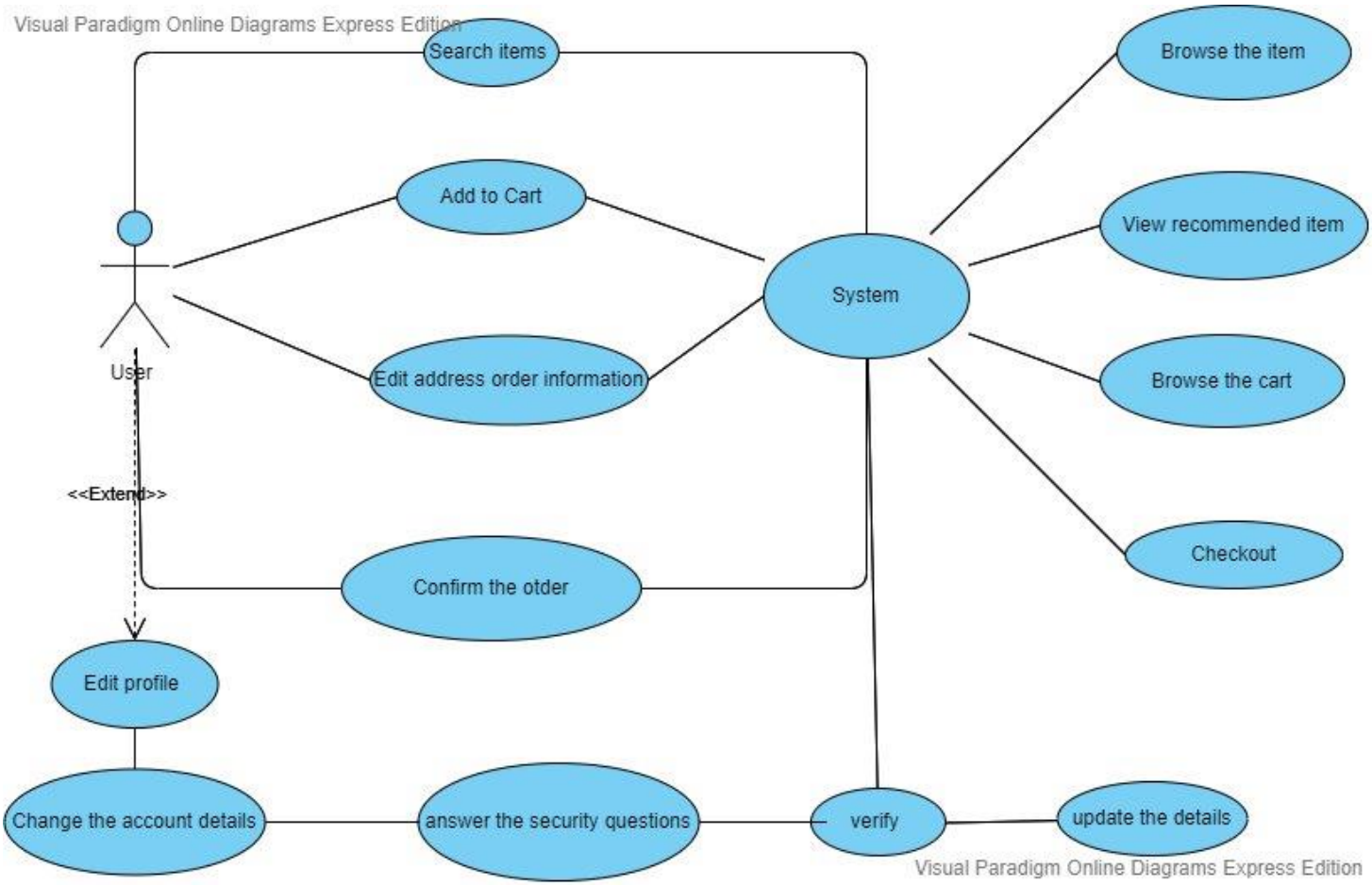
This feature allows customers to browse each product and buy products accurately and more efficiently.

	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



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

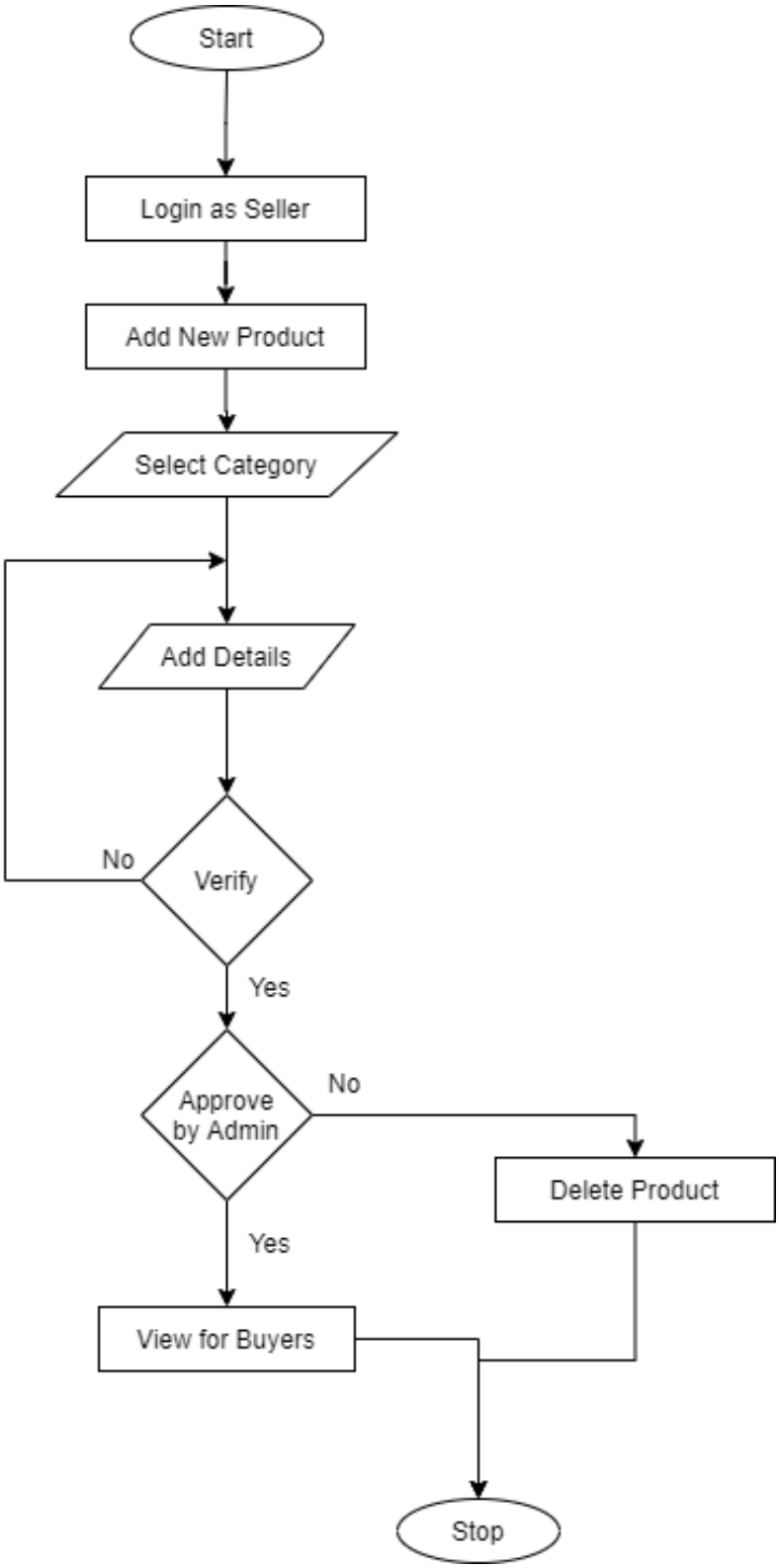
Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Navigate to product view	-	User should be able to choose categories of product	User should be able to choose categories of product	Pass
2	Choose and click on the category	-	Product wants to show for the category	Products shown	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	-	Page will show that user have to enter delivery	Delivery detail form was	Pass

	option		details	appeared	
6	Click on search option	-	Search bar has to shown	Search bar appeared	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

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

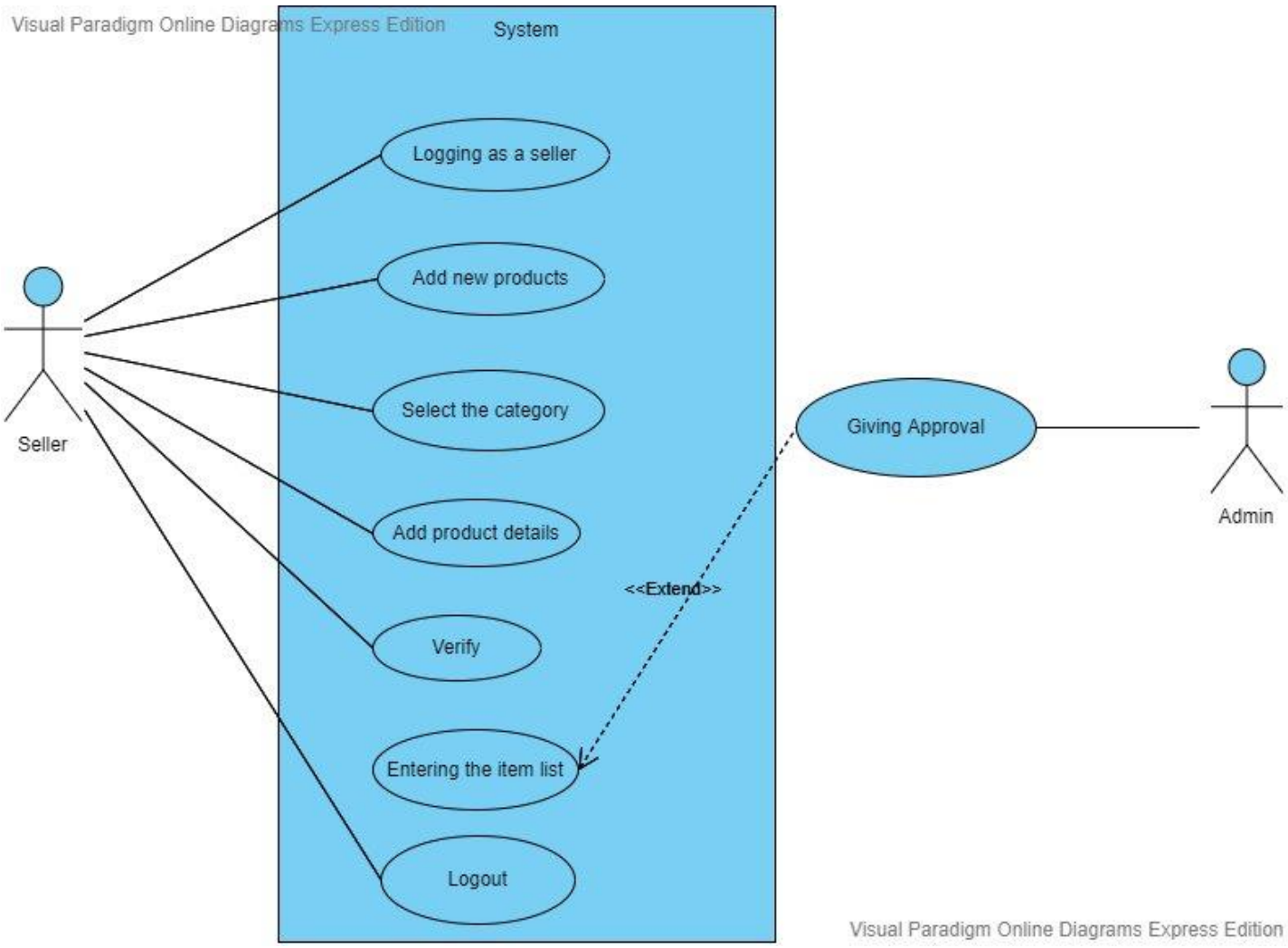
This feature allows customers to browse each product and buy products accurately and more efficiently.

	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	3. 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 4. 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



4.4 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 (exiting products)	Displaying selling Products (exiting 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

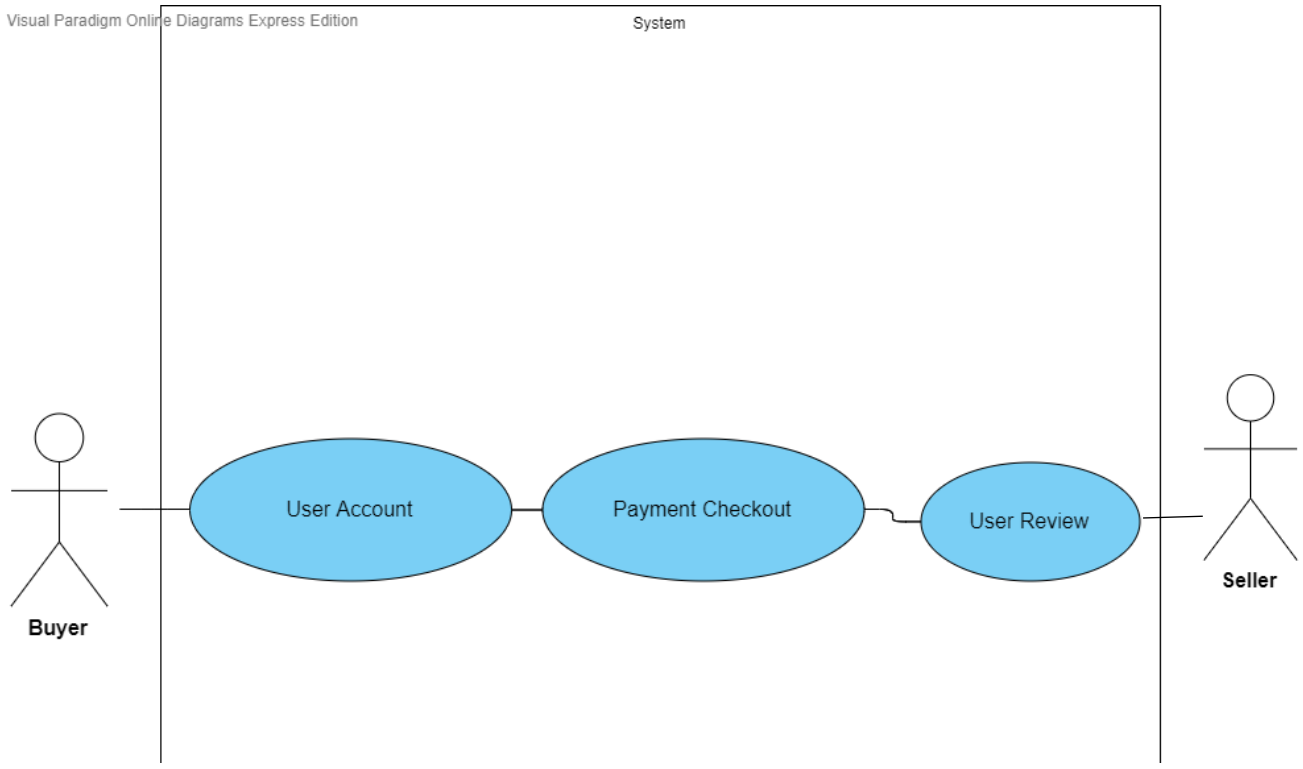
This feature can mostly between the buyer and seller. This will facilitate the buyers to share their experience on sellers.

	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	• 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	• User can access this through past order section
Post-conditions	Adding user review to sellers' profile

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



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

6. Chat system

6.1 UML – Use Case Diagrams

Description and Priority

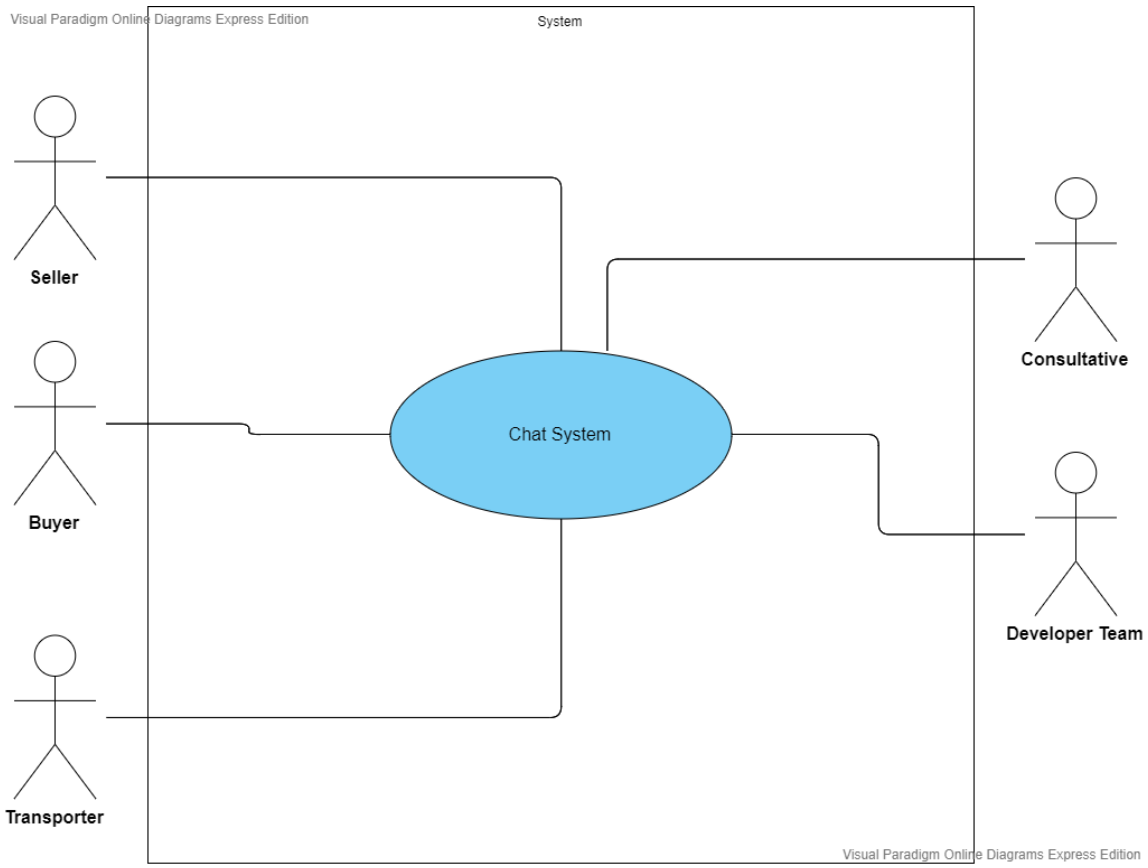
This feature can between all the users of the application. They can get connected with each other's while chat option. A farmer to a farmer, a farmer to a seller, a farmer to a delivery service owner, delivery service owner to a seller, etc. they can share their information such as delivery product,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

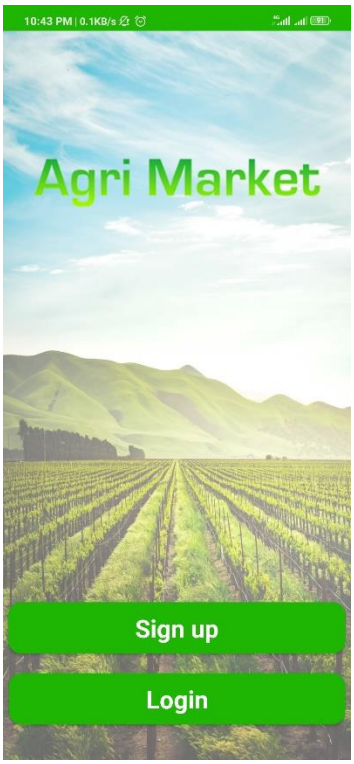
Post-conditions	The Actors made conversation within them. The system displays the suitable UI and login successfully to selected role Save the activities in the system log

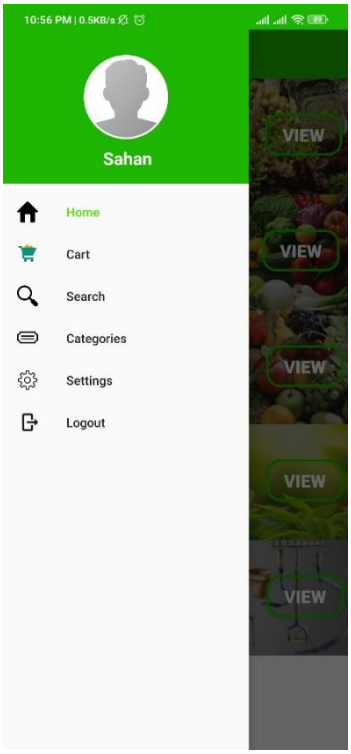


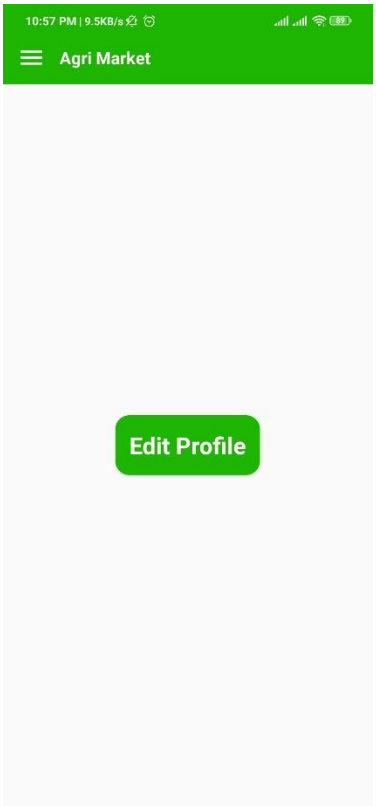
6.2 Test Case

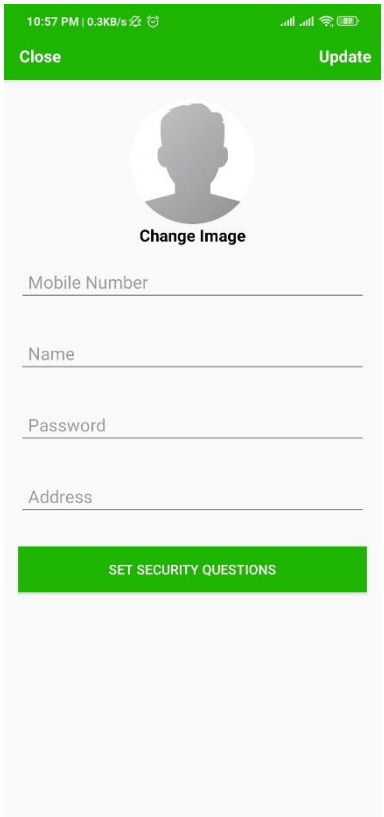
Step	Test Steps	Test Data	Expected Result	Actual Result	Status (Pass/Fail)
1	Browsing Chat option from side menu bar		**Chat with Desired user or admin**	**No Chat option in side menu**	Fail

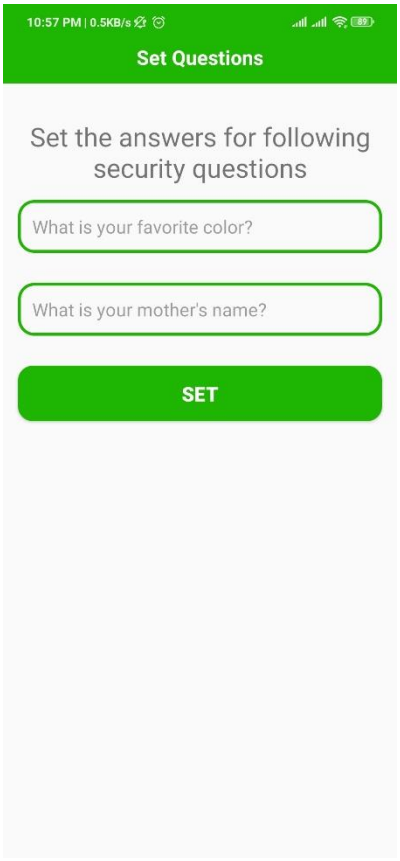
7. User Interfaces -Completed UI Screens

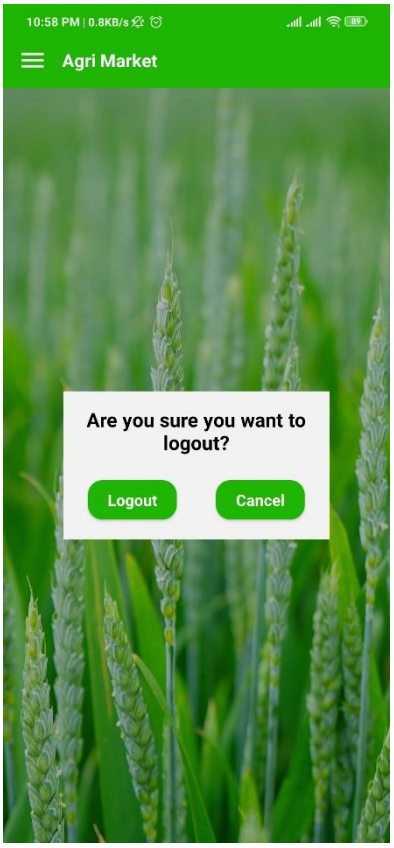


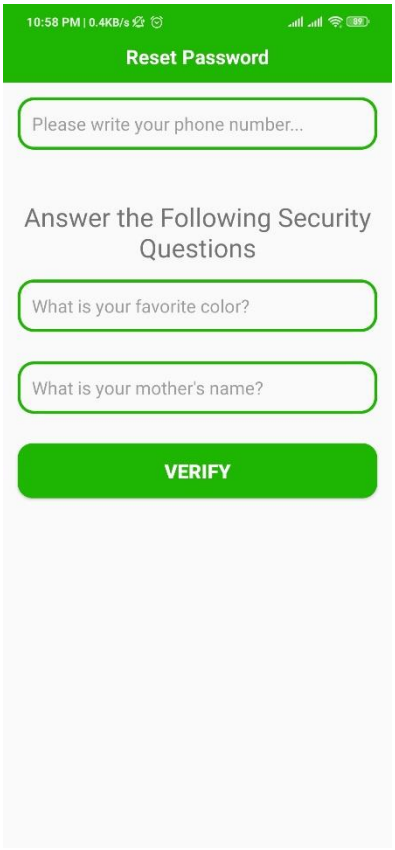


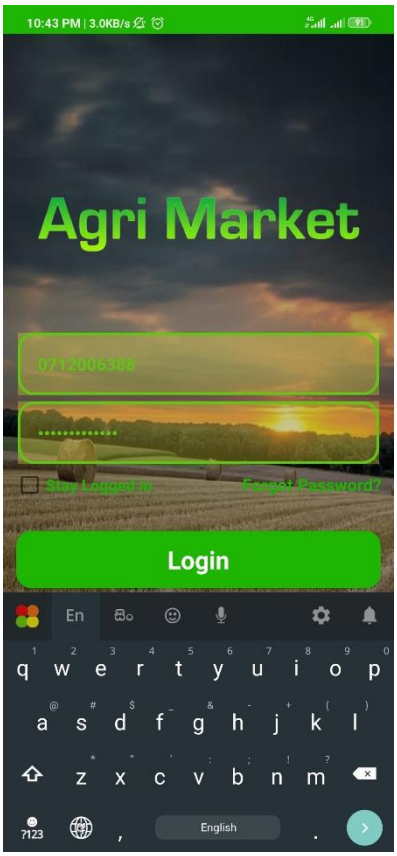


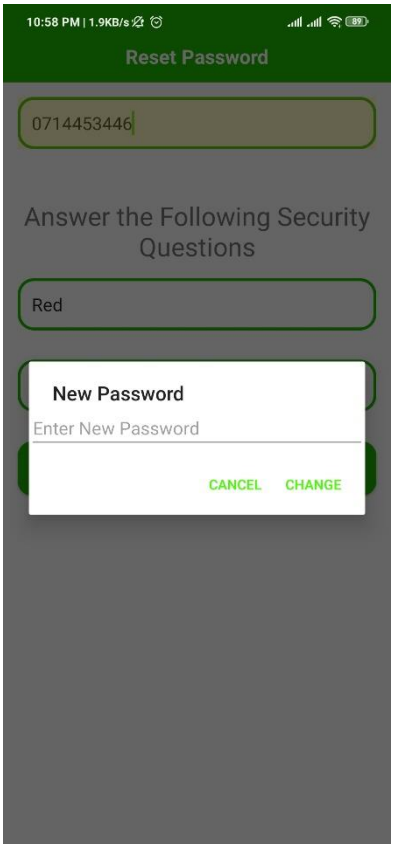



10:57 PM | 0.5KB/s
Set Questions
Set the answers for following security questions
What is your favorite color?
What is your mother's name?
SET


10:58 PM | 0.8KB/s
Agri Market
Are you sure you want to logout?
Logout
Cancel

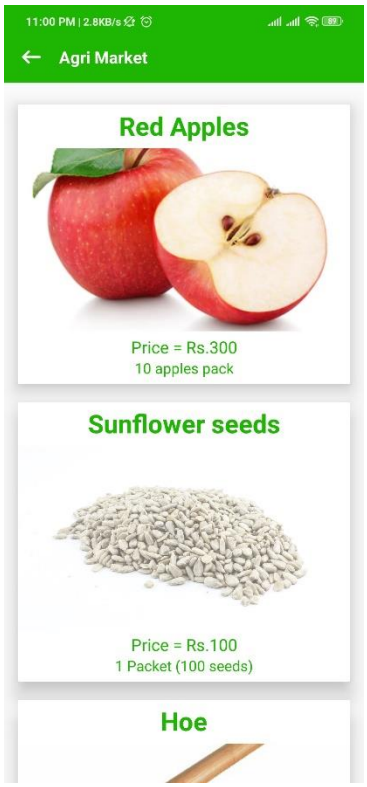

10:58 PM | 0.4KB/s
Reset Password
Please write your phone number...
Answer the Following Security Questions
What is your favorite color?
What is your mother's name?
VERIFY

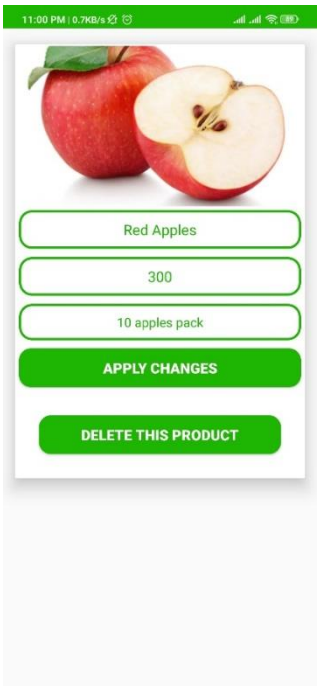

10:43 PM | 3.0KB/s
Agri Market
0712006388
Stay Logged In
Forgot Password?
Login

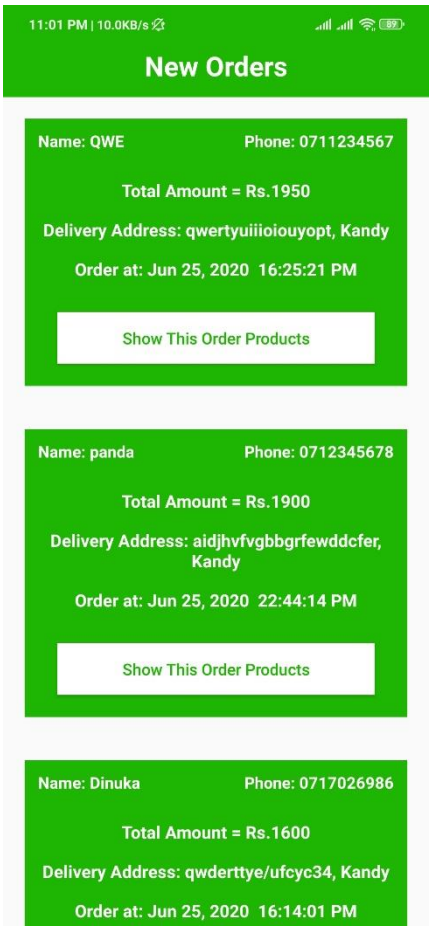

10:58 PM | 1.9KB/s
Reset Password
0714453446
Answer the Following Security Questions
Red
New Password
Enter New Password
CANCEL
CHANGE

Agri Market
0717026986
Admin Login
I'm not an admin

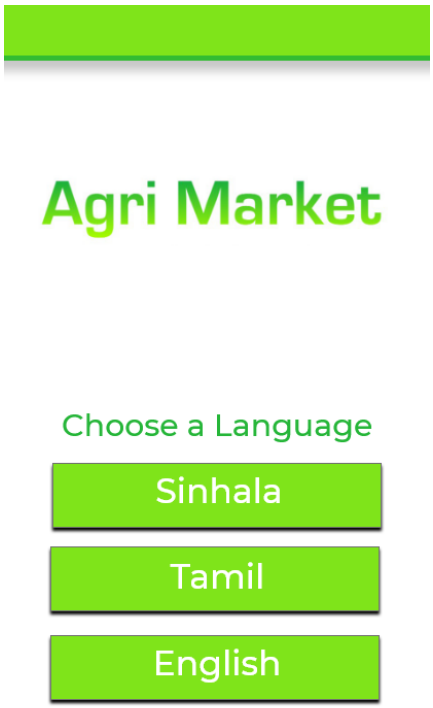
Add New Product
Maintain Products
Check New Orders
Logout

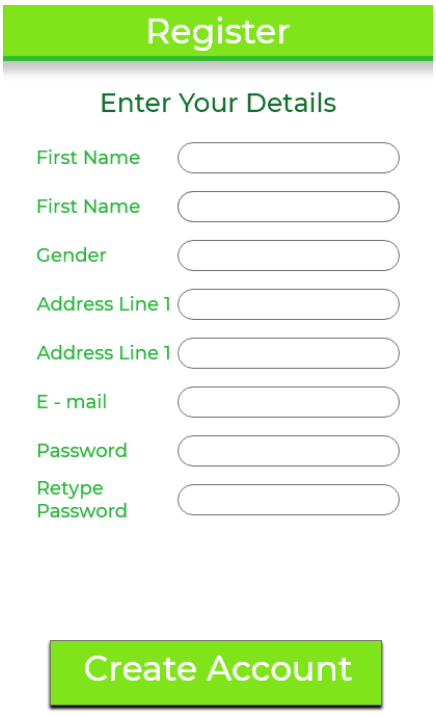

Agri Market
Red Apples
Price = Rs.300
10 apples pack
Sunflower seeds
Price = Rs.100
1 Packet (100 seeds)
Hoe

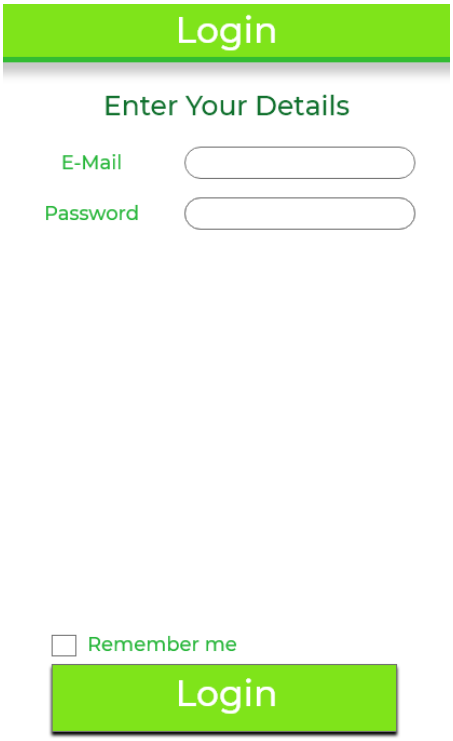

Red Apples
300
10 apples pack
APPLY CHANGES
DELETE THIS PRODUCT


New Orders
Name: QWE
Phone: 0711234567
Total Amount = Rs.1950
Delivery Address: qwertyuiiioiouyopt, Kandy
Order at: Jun 25, 2020 16:25:21 PM
Show This Order Products
Name: panda
Phone: 0712345678
Total Amount = Rs.1900
Delivery Address: aidjhvfvgbbgrfewddcfer, Kandy
Order at: Jun 25, 2020 22:44:14 PM
Show This Order Products
Name: Dinuka
Phone: 0717026986
Total Amount = Rs.1600
Delivery Address: qwderttye/ufcyc34, Kandy
Order at: Jun 25, 2020 16:14:01 PM

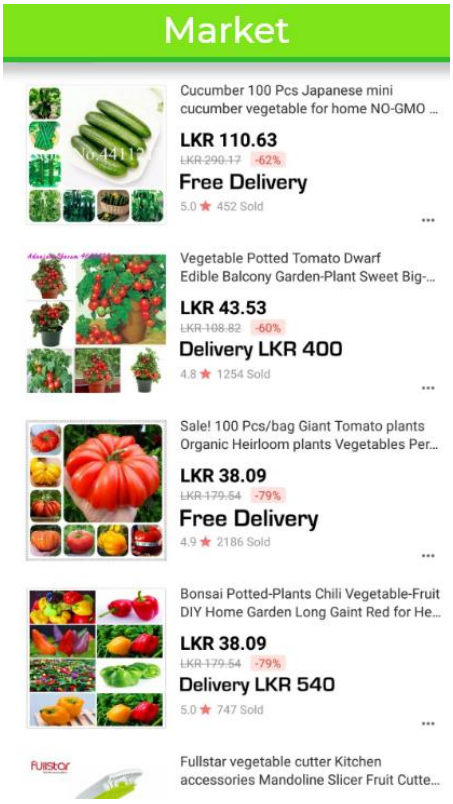
Expected User Interface Designs

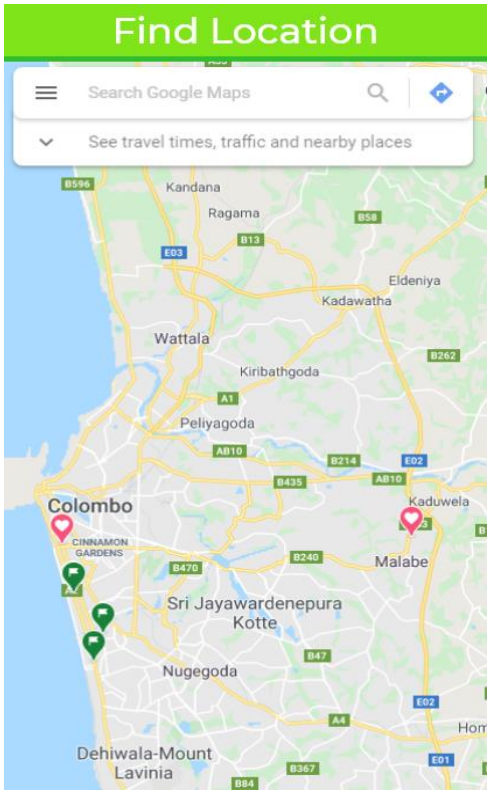




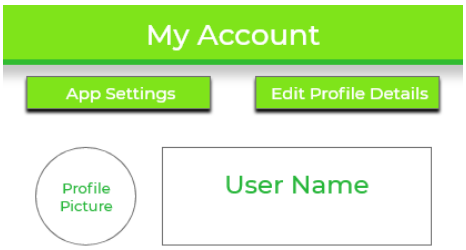


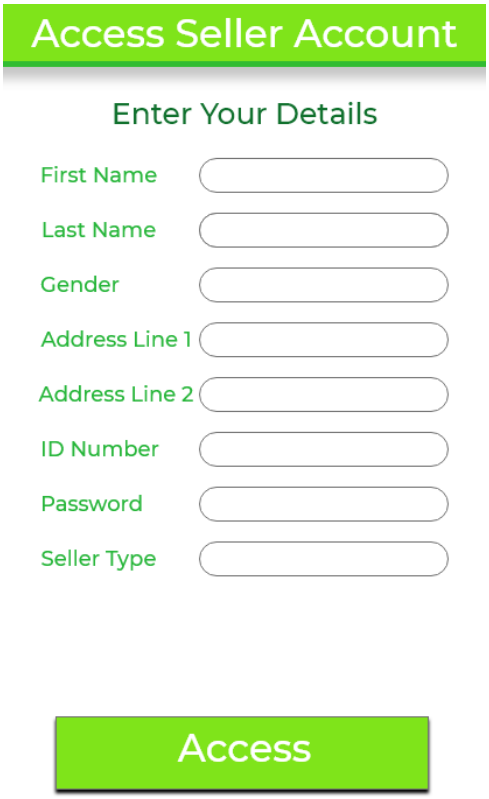
- This application contains all the languages.
- So, there will be no difficulty in usage in all the island in different cultures.
- Everyone has to create a user account in order to use the application by entering basic details.

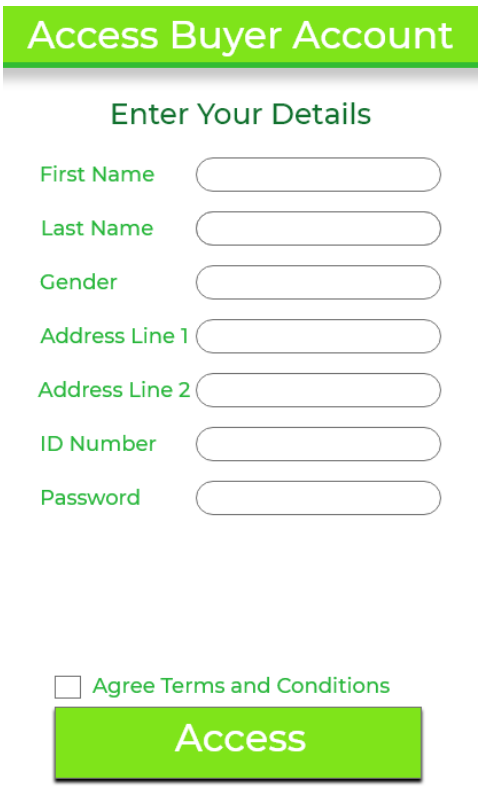


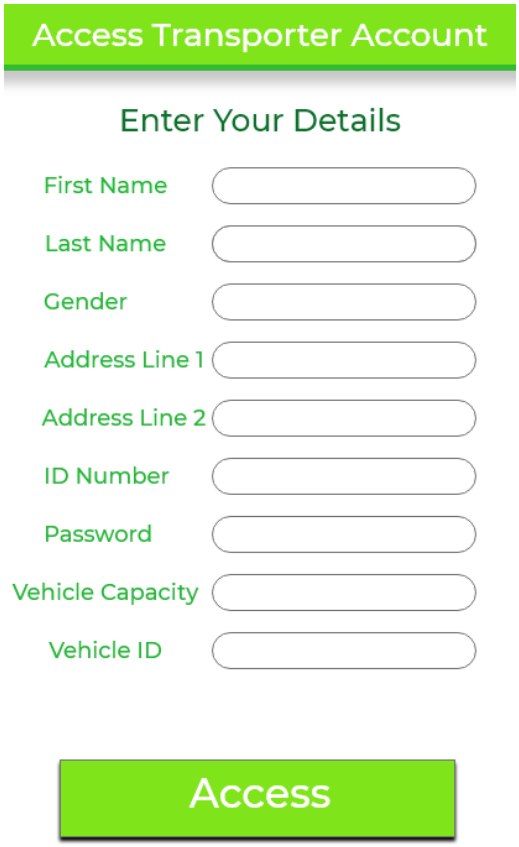


- In the market UI, users can scroll and browse the products using the list. All the essential details like price, delivery fees, seller are displayed in the product description.
- In the Delivery location find UI, users can take a look at map position of transport operator
- In the consultancy service,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



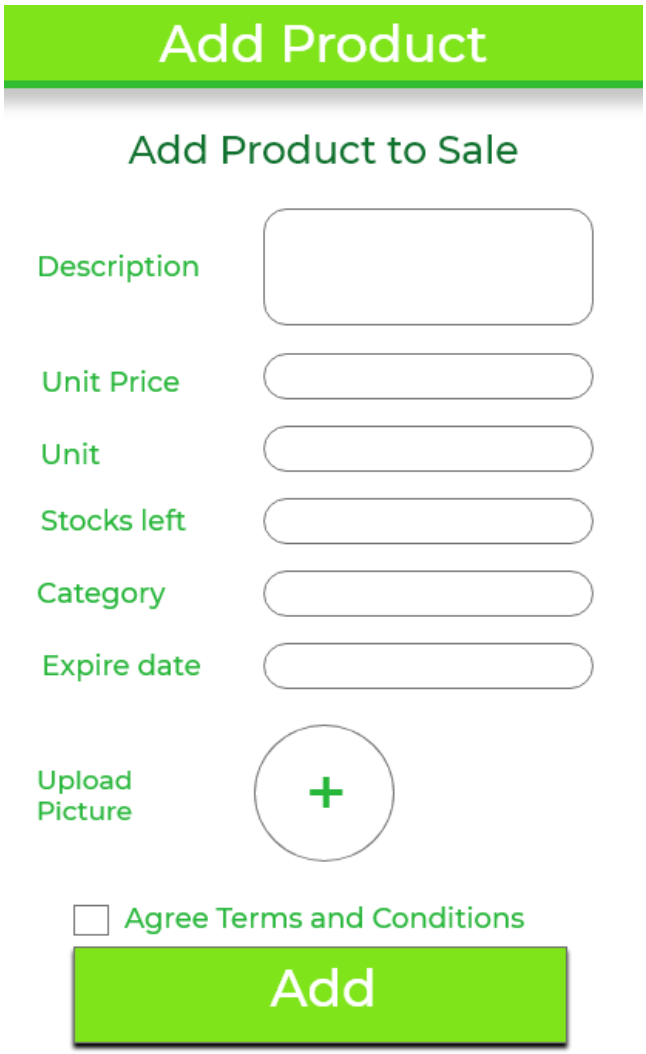




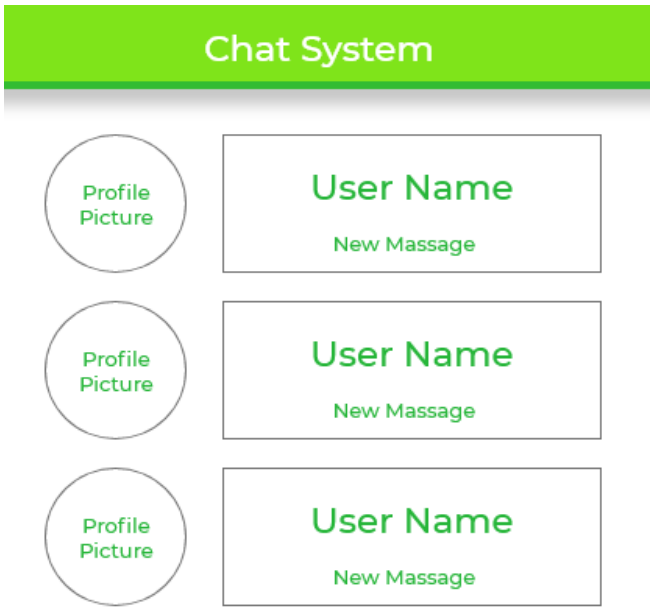


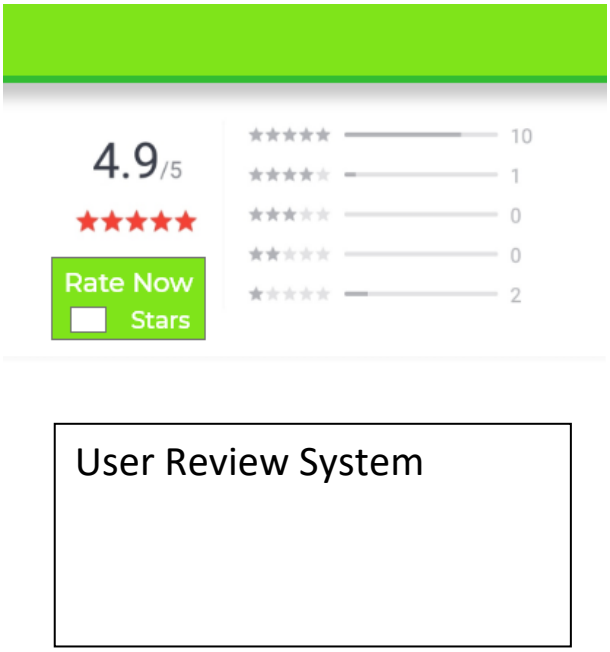
After Account creation, users can access their desired roles with functions

Product add screen for sellers

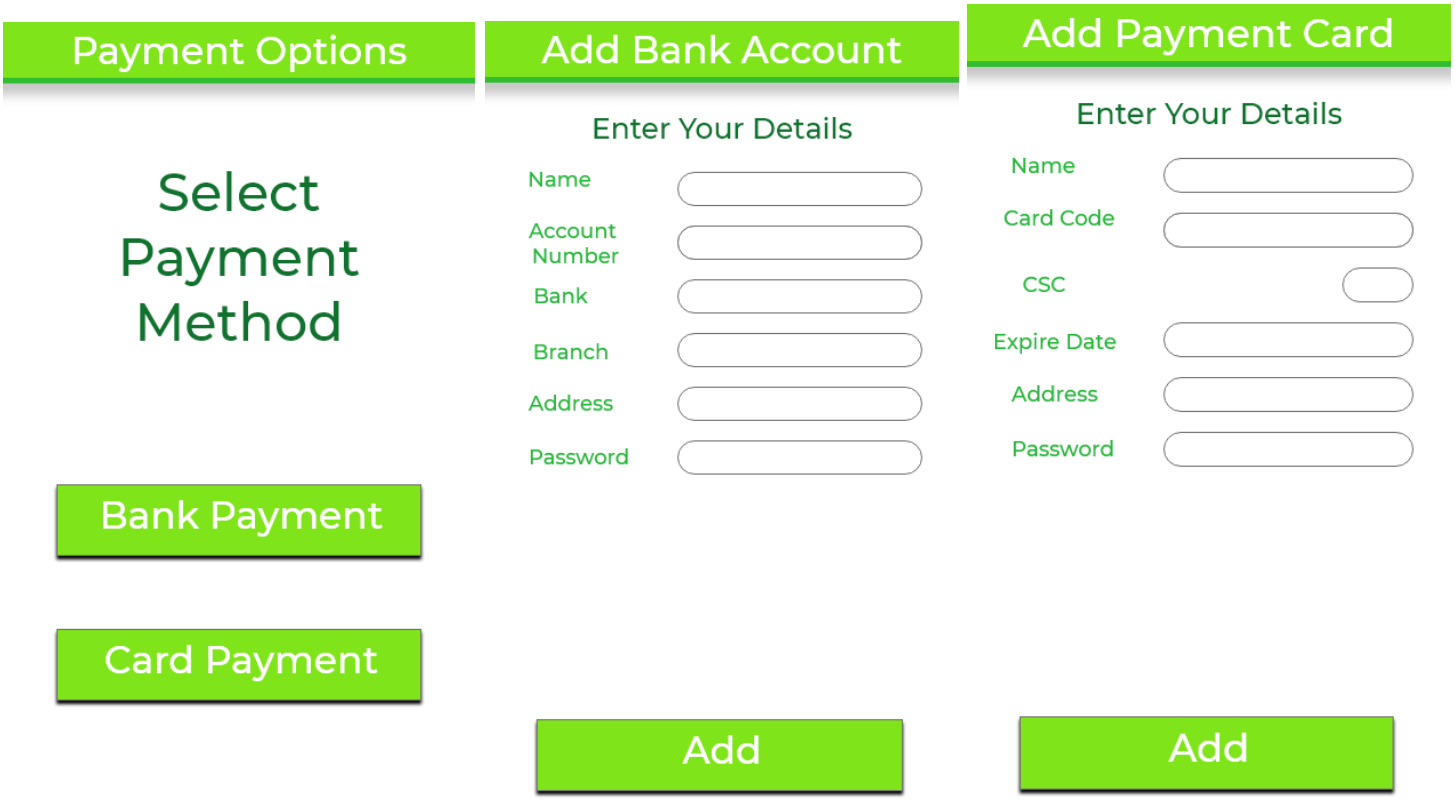


Buyers shopping cart where they can add products to checkout Cart

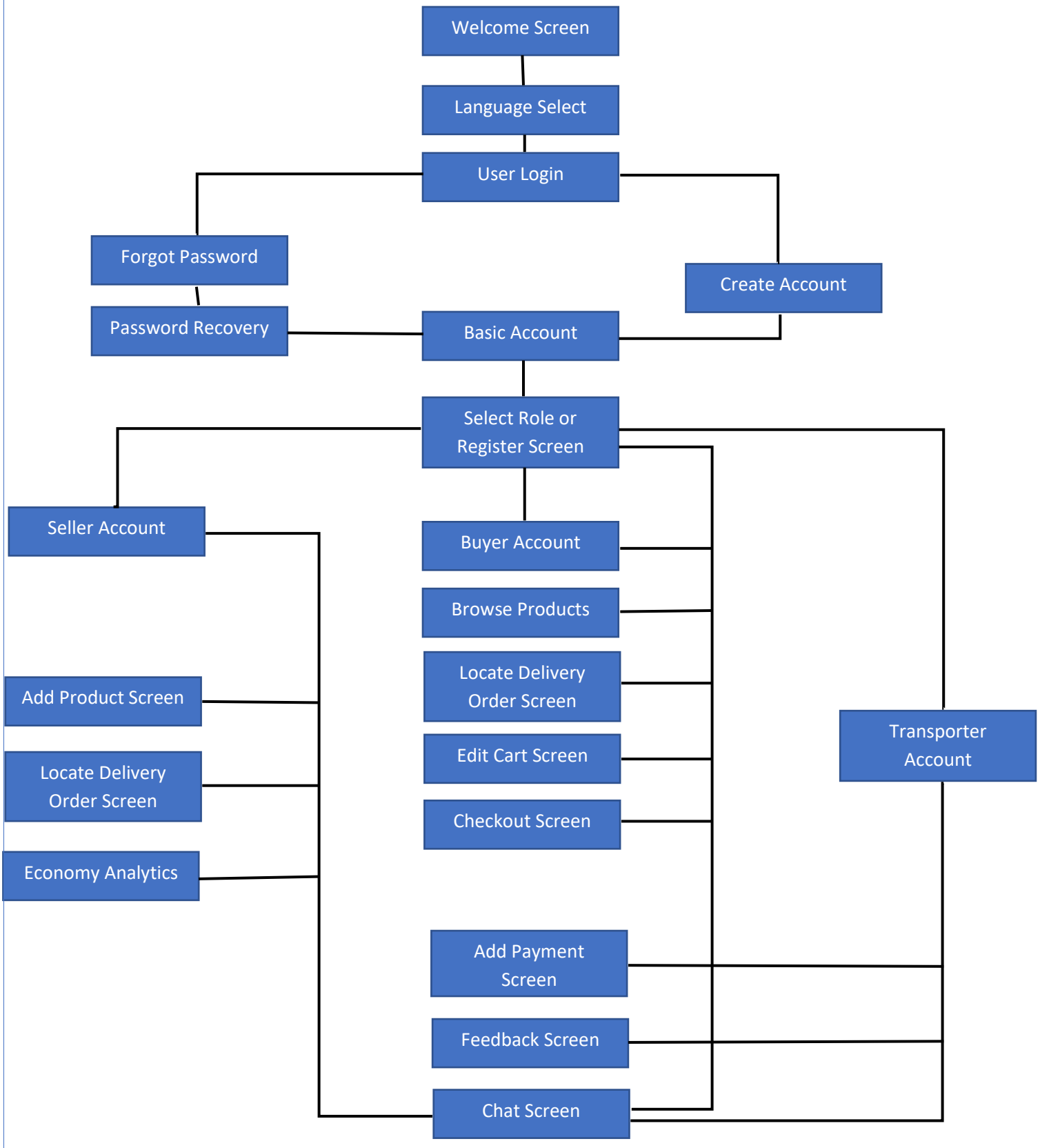




- Adding Payment Options



User Interface Flow Diagram



Reg No	Name	Contribution
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905	**S.S. Arunjith**	• Tester • UI Design • Documentation
1038	**H.M.N.I. Nimeshana**	• Testing • UI Designer • Documentation
1081	**B.M.H.T. Balasooriya**	• Testing • Documentation • Project Management