Dhirubhai Ambani Institute of Information And Communication Technology

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Street-Shopping

Mentored By:- Professor JayPrakash Lalchandani

PC641: Winter Internship Report – On Campus

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**201912082 - Aakash Dipakkumar Thakkar**

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Introduction

o Street shopping is a mobile application made for local vendors where they can sell their products online as well as offline from their shop.

o In this, users can purchase the product according to the market by searching the market in the map and can see the photos of market as well as shop also.

o Vendors can select the delivery boy according to his convenience to deliver the products.

o Delivery Boy can also select the deliveries from list of delivery also.

Context Diagram

CONTEXT LEVEL DIAGRAM
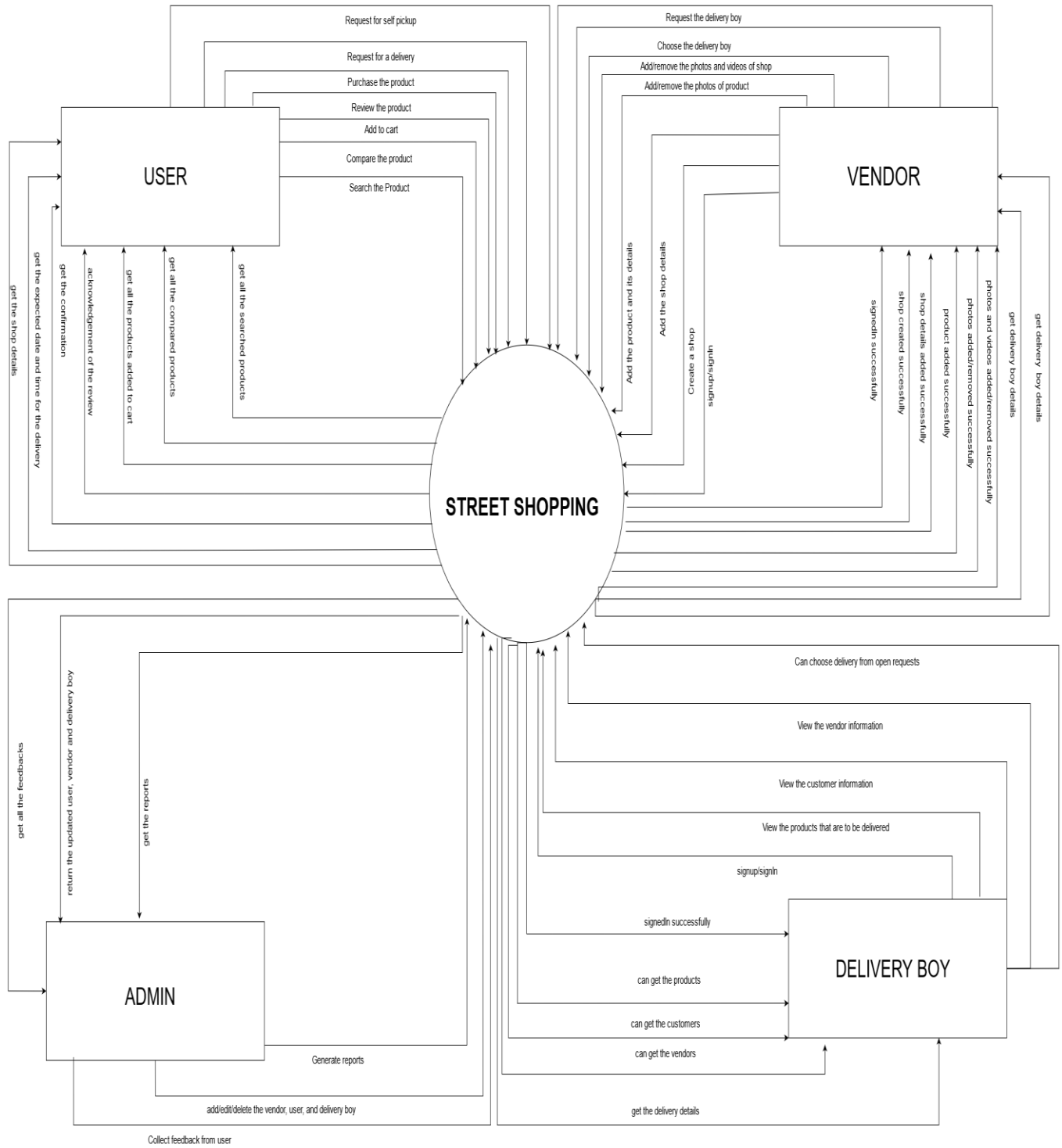
Scope of Project

In this street-shopping mobile application there are 4 actors i.e User, Vendor, Delivery and Admin.

1) User
- Signup/Sign In
- View Products, Shops & Market details.
- Add product to cart.
- User can add the product to cart without registration but for buying product he/she has to register first.
- Purchase of the product.
- Can compare the product by price
- Review the product.
- Remove the product from the cart.
- Can self-pick their product.
- Can select the delivery boy.

2) Vendor
- Signup/Sign In
- Create the shop.
- Add shop details.
- Add the product and its details.
- Add the photos and videos of the product and shop.
- Remove the product.
- Remove photos and videos of the product and shop.
- Can choose the delivery boy.
- Can request the delivery boy.

3) Delivery

- Signup/ Sign In
- View and block/remove the vendor and user.
- View and delete the products.
- Add/ delete the market videos.
- Can generate the reports.
- Can change the value of subscription.
- Can send reminders for the payment of subscription.
- Manage the delivery boy.
- Can collect feedback from user and vendor.

4) Admin

- Signup/Sign In
- View the products that are to be delivered.
- Can view the customer contact information.
- Can able to view the vendor details to pick up the product.
- Deliver the product.
- Can view the delivery requests.
- Can choose delivery from open request.

Use Case of the System

USECASE

Design Contribution

o UI design for our application was made in Balsamiq, whole team participated in it. Contribution by:

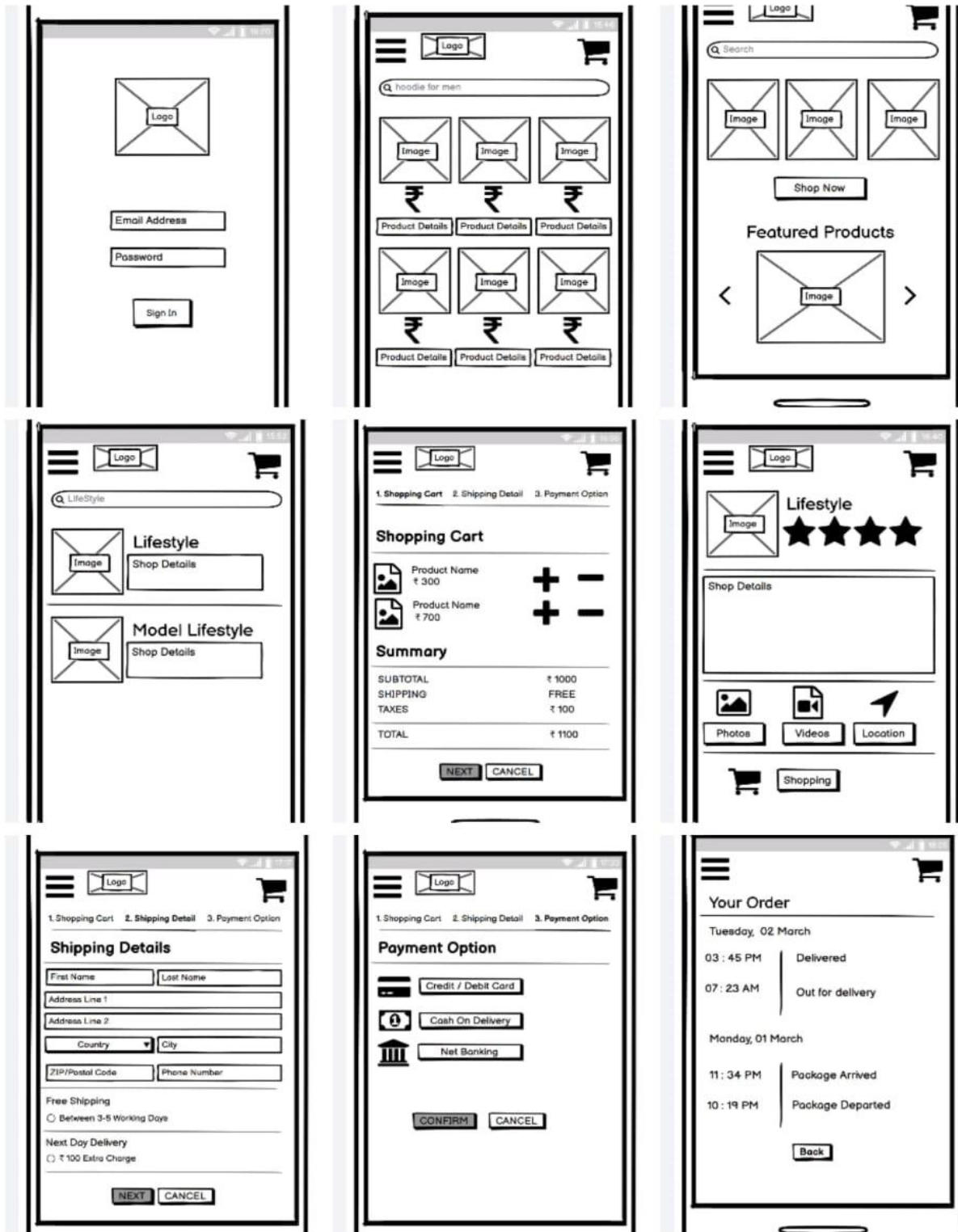| ID	Name
201912032	Aakash Bihari Dubey
201912065	Jay Hasmukhbhai Thakkar
201912080	Rahil Pranav Shah
201912082	Aakash Dipakkumar Thakkar

o In UI design we have made wireframes for 4 module i.e. User, Vendor, Admin and Delivery.

UI Design for Delivery Module

UI Design for User

Screen 1 (Sign In):
Logo
Email Address
Password
Sign In

Screen 2 (Product List):
Logo
hoodie for men
Image ₹ Product Details
Image ₹ Product Details
Image ₹ Product Details
Image ₹ Product Details
Image ₹ Product Details
Image ₹ Product Details

Screen 3 (Home / Featured):
Logo
Search
Image | Image | Image
Shop Now
Featured Products
< Image >

Screen 4 (Shop):
Logo
LifeStyle
Lifestyle — Image — Shop Details
Model Lifestyle — Image — Shop Details

Screen 5 (Shopping Cart):
Logo
1. Shopping Cart   2. Shipping Detail   3. Payment Option
Shopping Cart
Product Name ₹ 300 + −
Product Name ₹ 700 + −
Summary
SUBTOTAL   ₹ 1000
SHIPPING   FREE
TAXES   ₹ 100
TOTAL   ₹ 1100
NEXT CANCEL

Screen 6 (Shop Details):
Logo
Image Lifestyle ★★★★
Shop Details
Photos | Videos | Location
🛒 Shopping

Screen 7 (Shipping Details):
Logo
1. Shopping Cart   2. Shipping Detail   3. Payment Option
Shipping Details
First Name | Last Name
Address Line 1
Address Line 2
Country ▼ | City
ZIP/Postal Code | Phone Number
Free Shipping
○ Between 3-5 Working Days
Next Day Delivery
○ ₹ 100 Extra Charge
NEXT CANCEL

Screen 8 (Payment Option):
Logo
1. Shopping Cart   2. Shipping Detail   3. Payment Option
Payment Option
Credit / Debit Card
Cash On Delivery
Net Banking
CONFIRM CANCEL

Screen 9 (Your Order):
Your Order
Tuesday, 02 March
03 : 45 PM   Delivered
07 : 23 AM   Out for delivery
Monday, 01 March
11 : 34 PM   Package Arrived
10 : 19 PM   Package Departed
Back

UI Design for Vendor

LOGIN

email

password

Forgot Password ?

LOGIN

Create Account

Aakash Dubey Paid/Unpaid
Total Item : 12
Order Date : 12/12/20201

Aakash Dubey Paid/Unpaid
Total Item : 12
Order Date : 12/12/20201

Aakash Dubey Paid/Unpaid
Total Item : 12
Order Date : 12/12/20201

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Total Item : 12
Order Date : 12/12/20201

Aakash Dubey Paid/Unpaid
Total Item : 12
Order Date : 12/12/20201

Aakash Dubey Paid/Unpaid
Total Item : 12
Order Date : 12/12/20201

FORGOT PASSWORD

Enter Your Email ID

LOGIN

SUBMIT

ACCOUNT

First Name

Last Name

email id

password

CREATE ACCOUNT
LOGIN

Tagline

Location : B2ff Horizontal Market near Plot 22

Prod 1	Prod 1	Prod 1
Prod 1	Prod 1	Prod 1
Prod 1	Prod 1	Prod 1
Prod 1	Prod 1	Prod 1

Contact Number:
Delivery Boy Assigned (Yes/No)

Item 1	No of values : 1
Item 1	No of values : 1
Item 1	No of values : 1
Item 1	No of values : 1
Item 1	No of values : 1
Item 1	No of values : 1
Item 1	No of values : 1
Item 1	No of values : 1

Dispatch

Your Account subscription is pending

Your Account subscription is pending
Your renewal date is near
Your Account subscription is pending

Your Account subscription is pending
Your renewal date is near
Your Account subscription is pending

Edit Profile

General Settings

Purchase Subscription

Close Shop

Logout

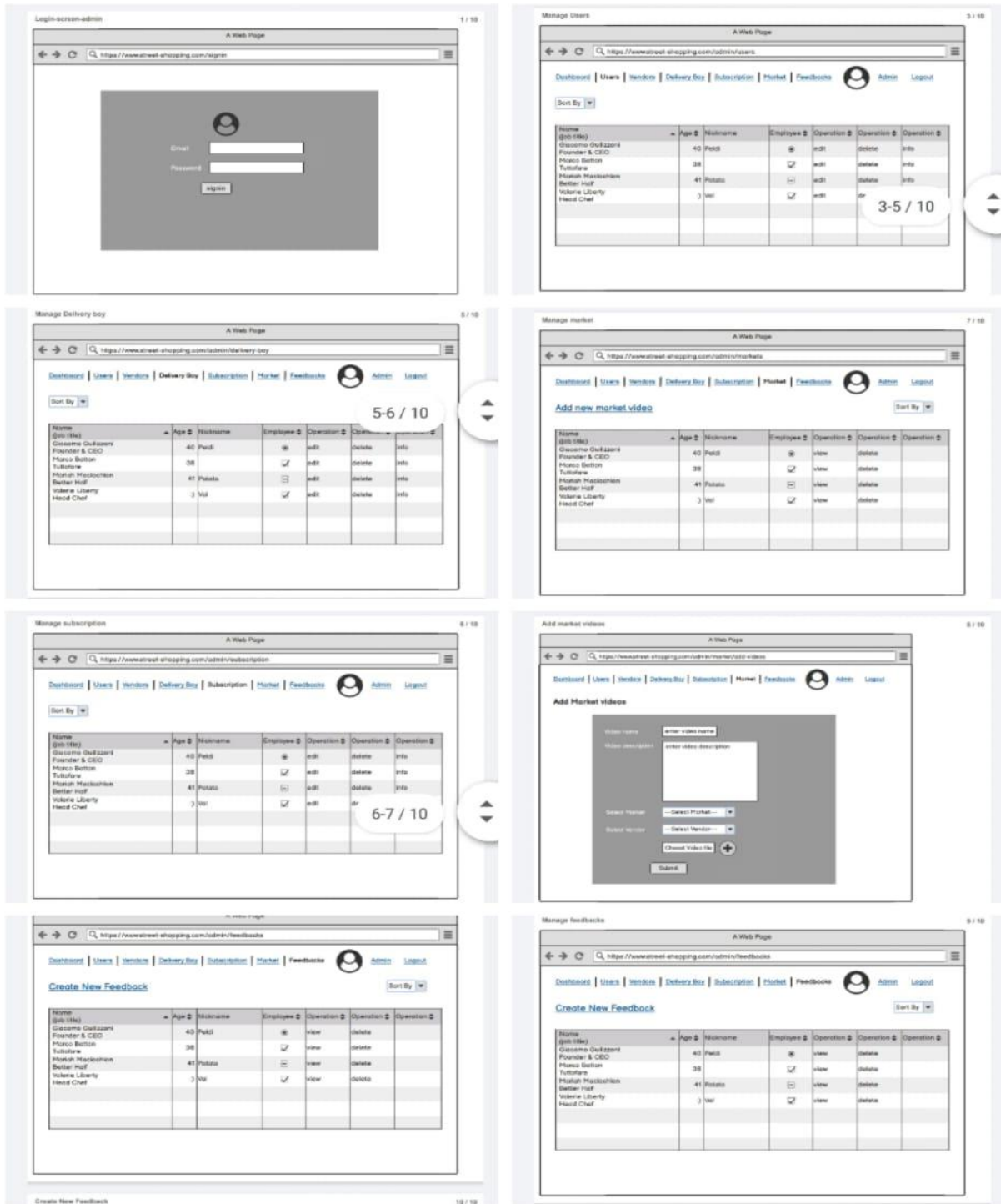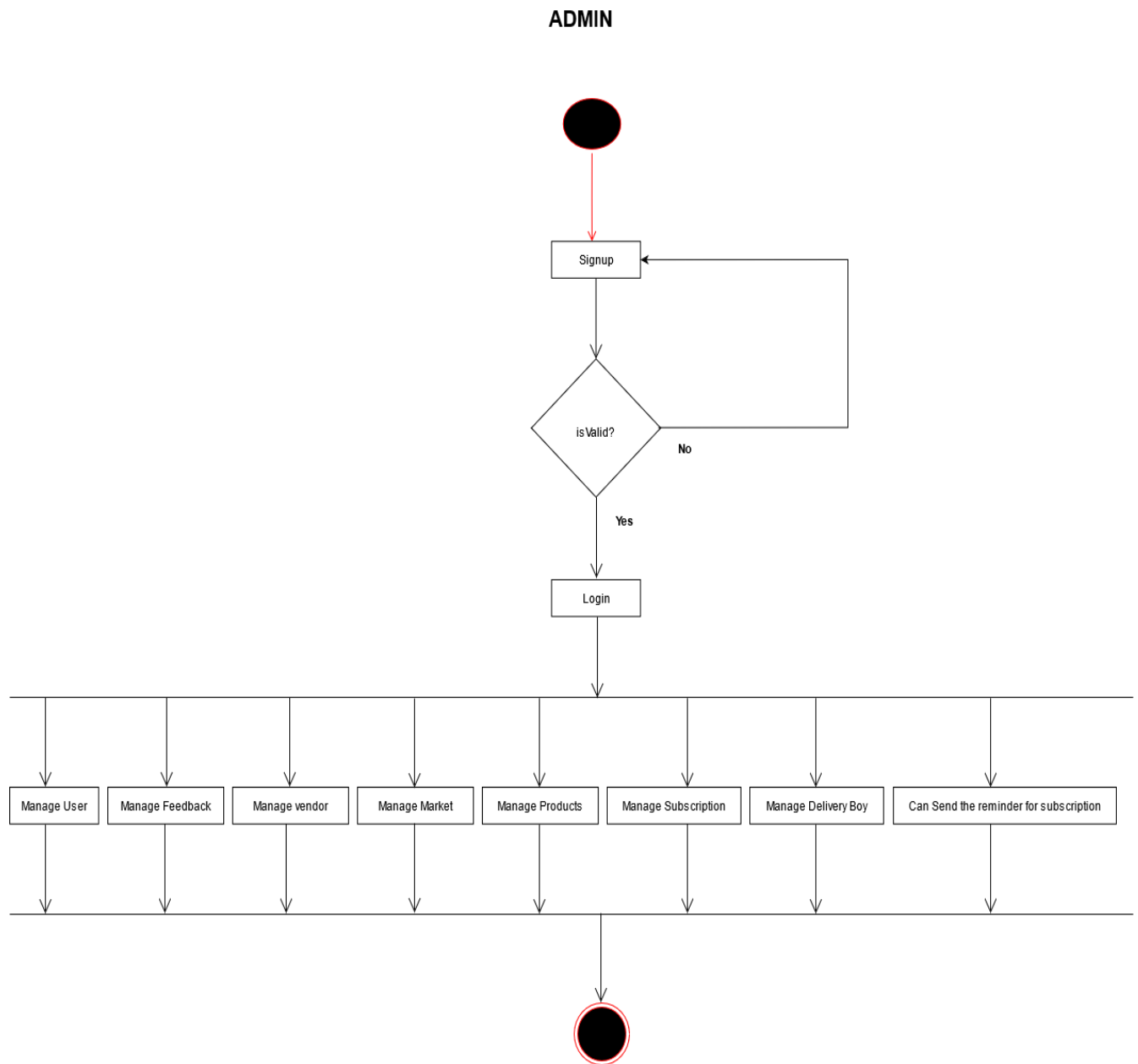**Assign Delivery Boy**

Order Id : 2121
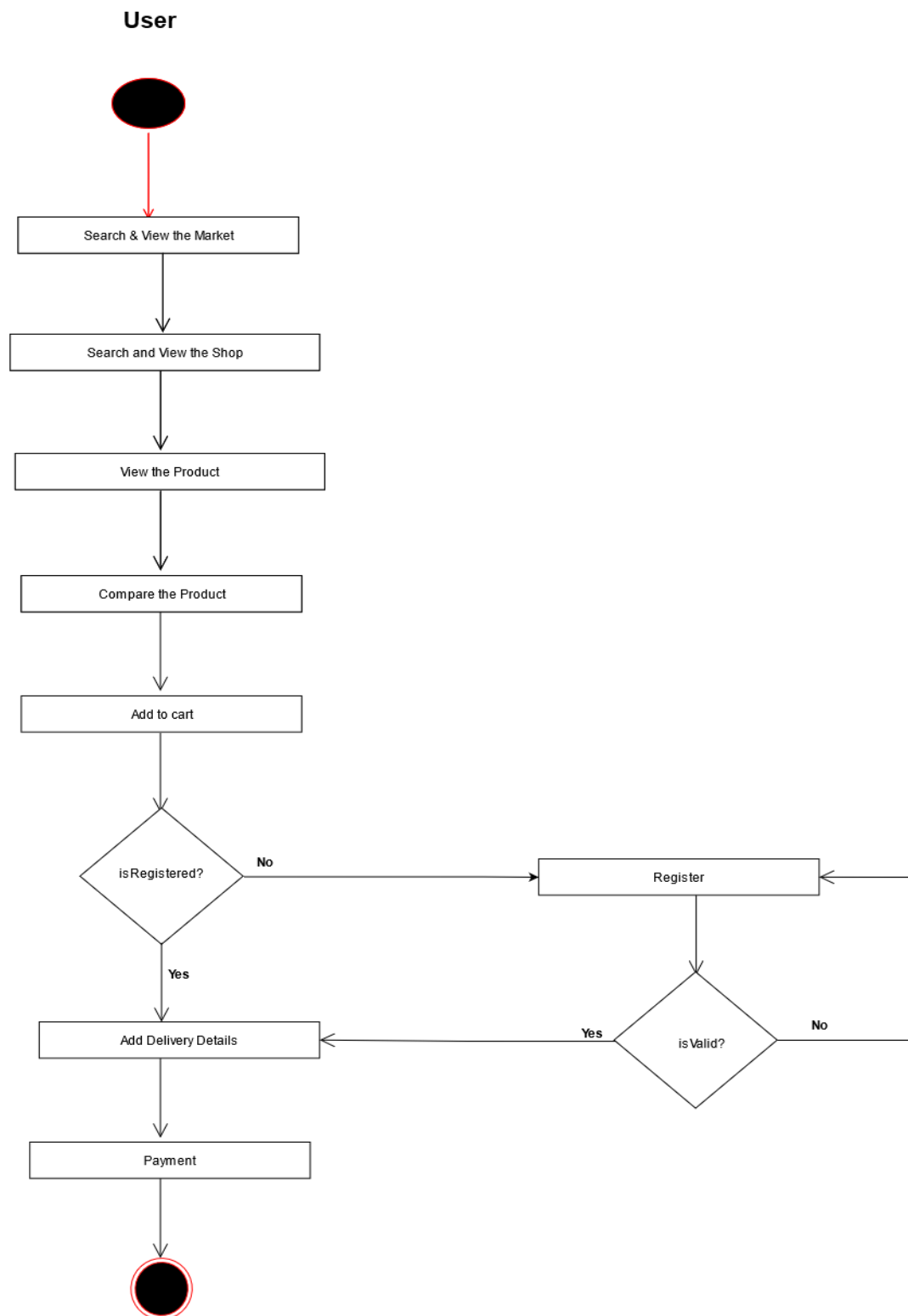
Delivery Boy :
Delivery Time & Date:

Dispatch

UI Design for Admin

o Sequence & Activity diagram & CRC card of the system were drawn in Draw.io, each member has contributed equally on it.
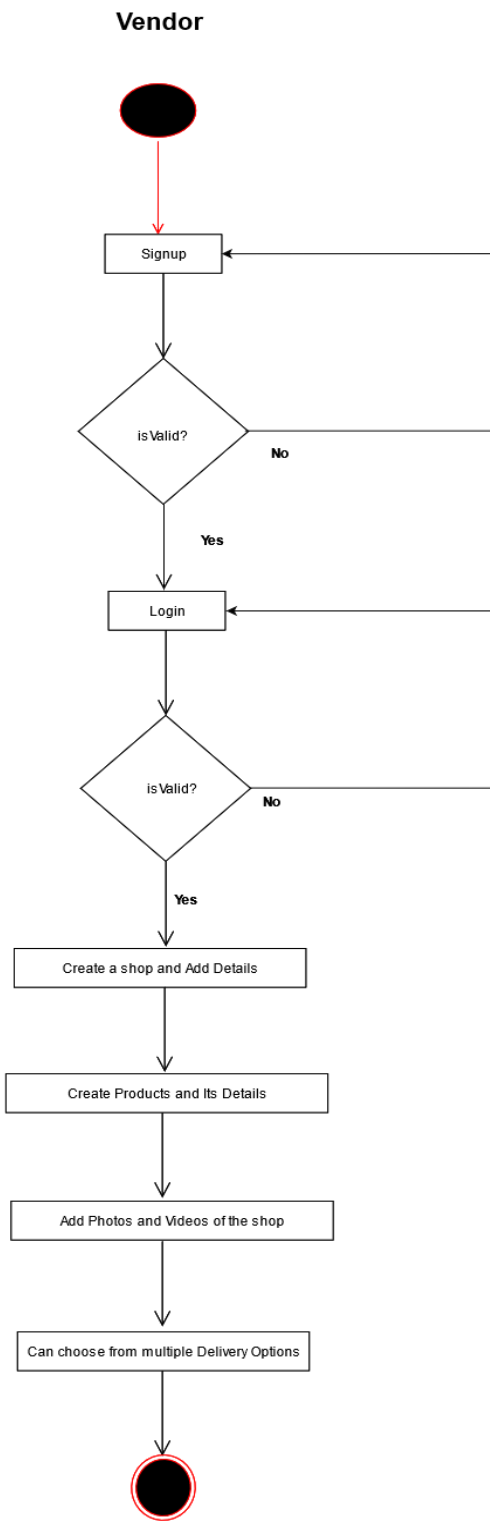
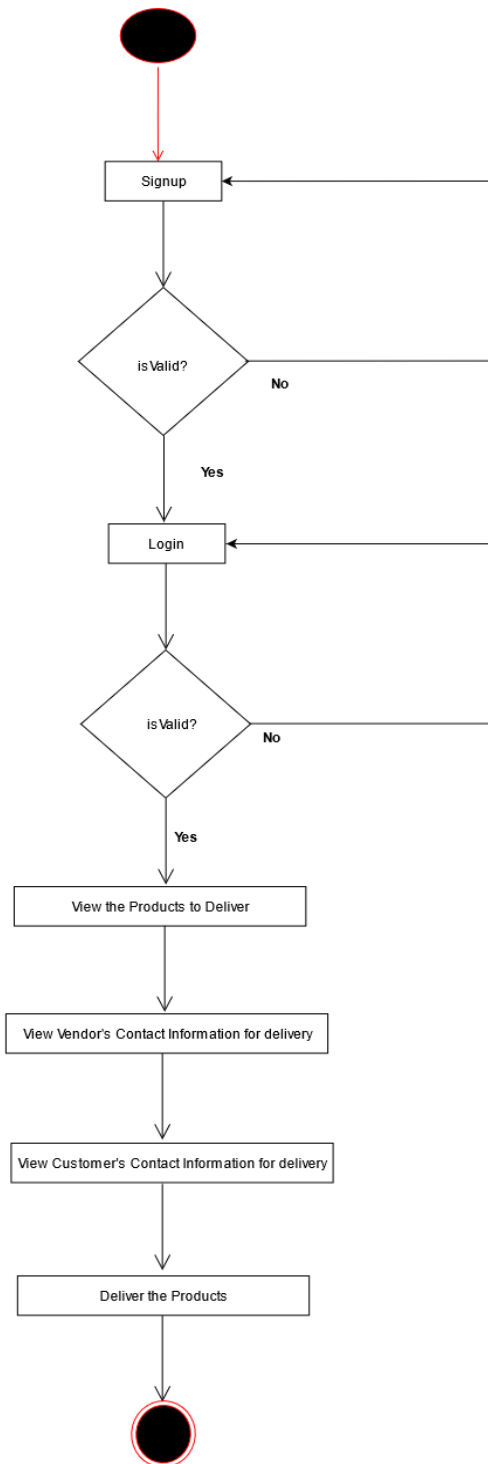# **Activity Diagram for Admin**

ADMIN

Activity Diagram for User

User

Activity Diagram for Vendor

Vendor

Signup

isValid? — No

Yes

Login

isValid? — No

Yes

Create a shop and Add Details

Create Products and Its Details

Add Photos and Videos of the shop

Can choose from multiple Delivery Options

Activity Diagram for Delivery

Delivery

Sequence Diagram – User

User / User Screen / System

User Lands to the Login Page

"On Login Button Pressed"

validate(userid,password)

return (isUser() ==true)

Login Sucessful

User Application Dashboard

return (isUser() == false)

Error Response

Re-enter User Id and Password

Click on Search Product

Search products

fetch(SearchString)

return fetched Product

Load fetched Products

Display

Click on "Manage Shopping Cart"

Manage Shopping Cart

ManageProd(prodid)

return acknowledgement

Successful Reponse

Display

Purchase any Product

Purchase The Product

PaymentProcess(cardid,cvv)

return paymentVerification

Successfully Purchased

Display

Click on "Delivery Option"

Choose Delivery Options

ChooseDeliveryType(selfpickup||DeliveryBoy)

return acknowledgment

Successful Response

Display

Click on "Do Request for Delivery"

Do request of Delivery

requestDeliveryBoy()

return Acceptance of DeliveryBoy

Accepted Message

Display

Click on "Logout"

Logout

Successful Response

Login Page

Sequence Diagram – Vendor (Request a delivery boy)

Request A Delivery Boy

VENDOR

Delivery List Screen

Delivery Vendors

Click on "Delivery List"

Select A delivery Vendor

Request A delivery Vendor

Get the confirmation

Save the Info

return delivery id

Delivery ID

Result
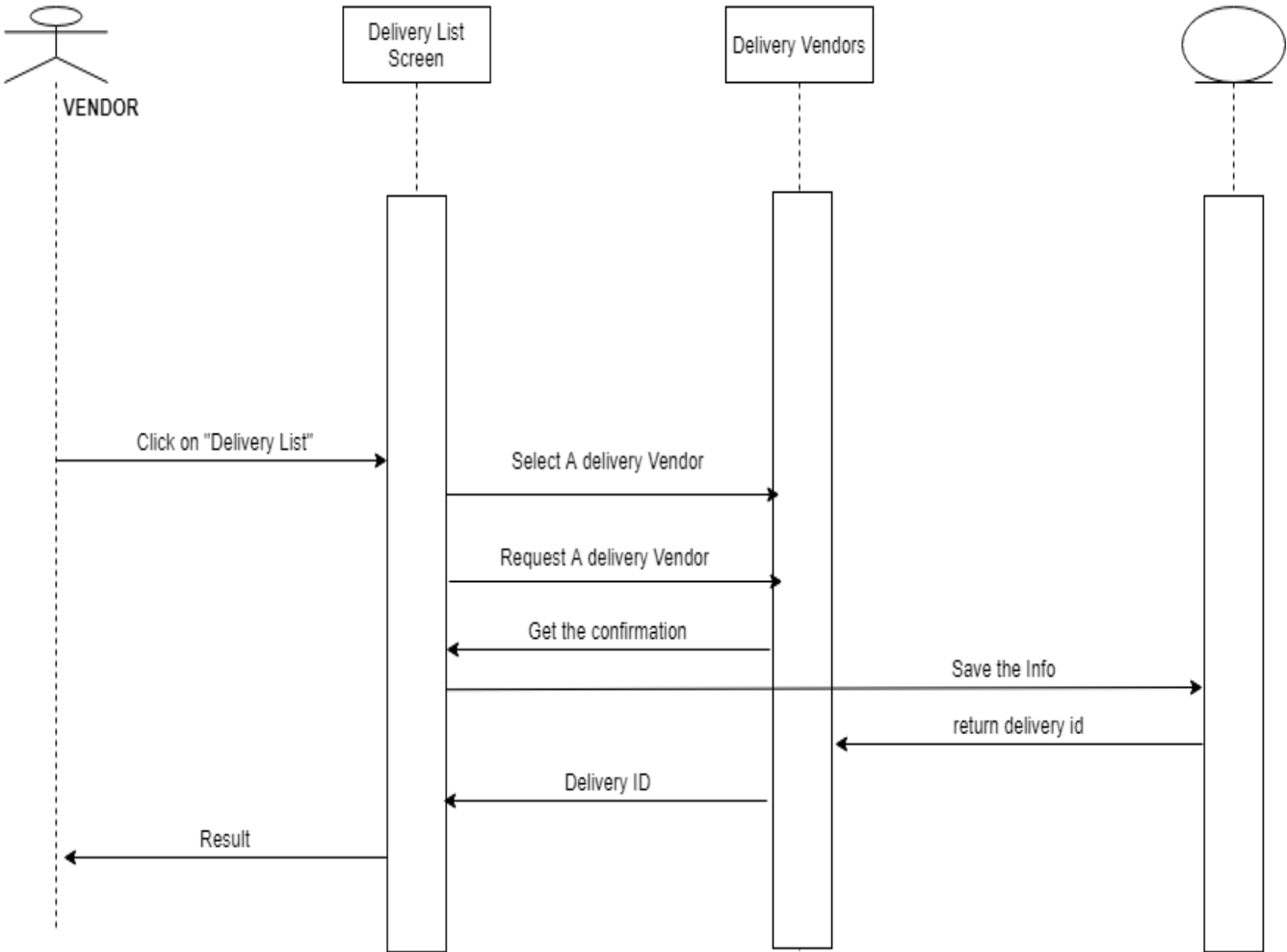
Sequence Diagram – Vendor (Add product)

Add Product of the Shop

VENDOR

Add Product Screen

Add Product

Click on "Add Product"

addProduct(prodDetails)

Save Product

return product id

product id

Result
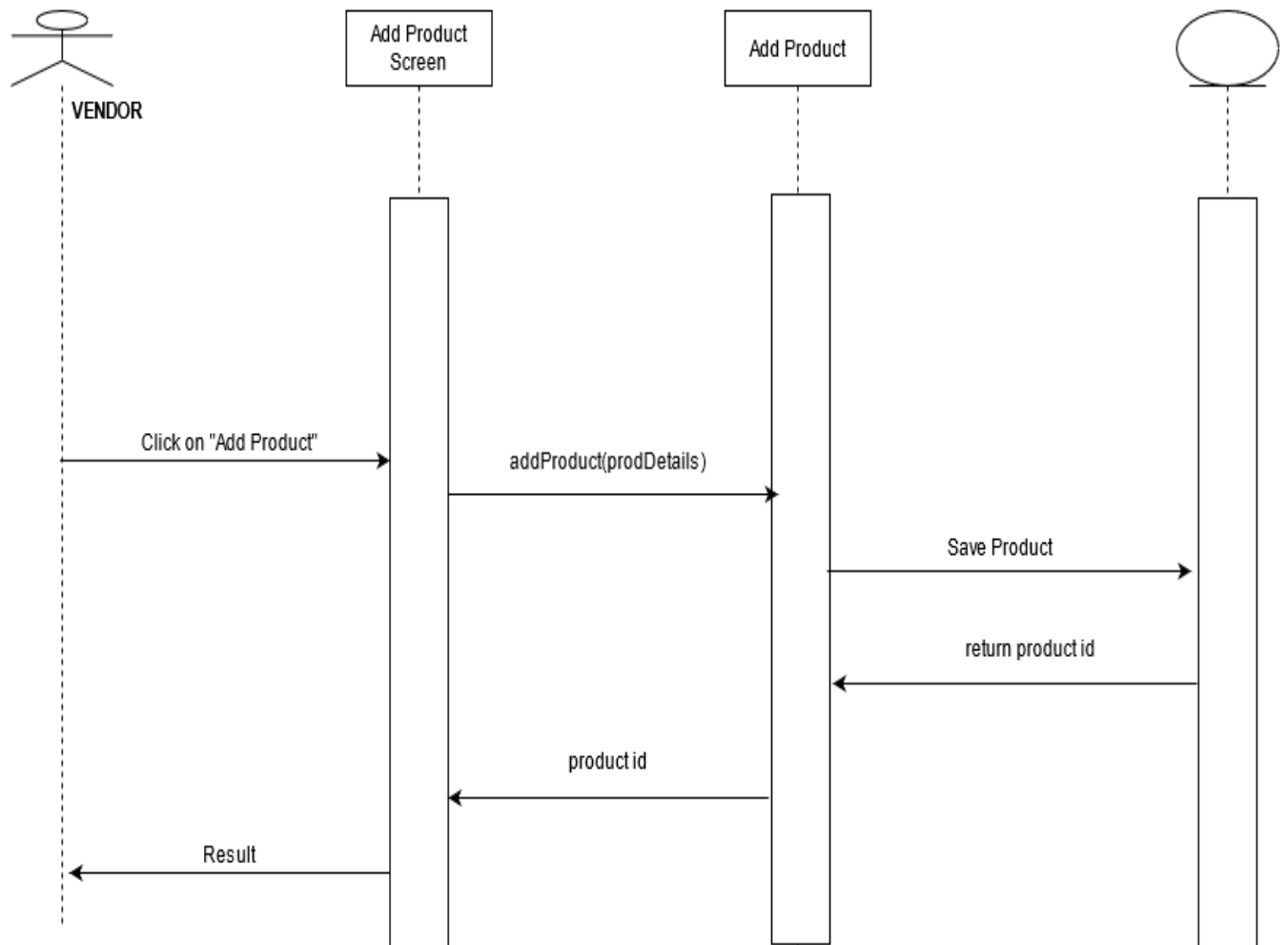
Sequence Diagram – Vendor(Add shop)

Add Shop

VENDOR

Add Shop Screen

Add Shop

Click on "Add New Shop"

addShop(shopdetails)

save shop

return shopid

shop id

Result
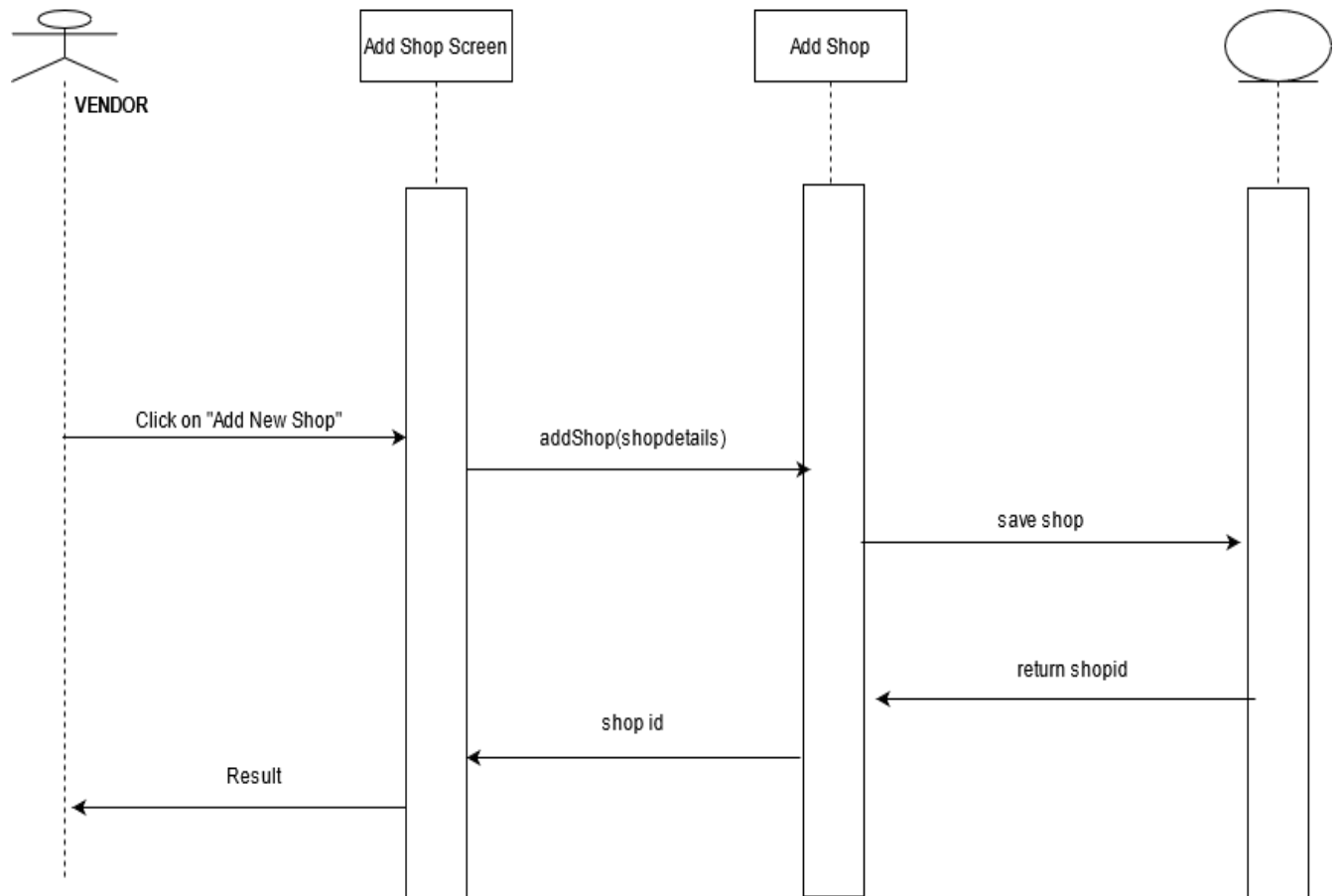
Sequence Diagram – Admin

Generate Report/Send Reminder/create feedback form
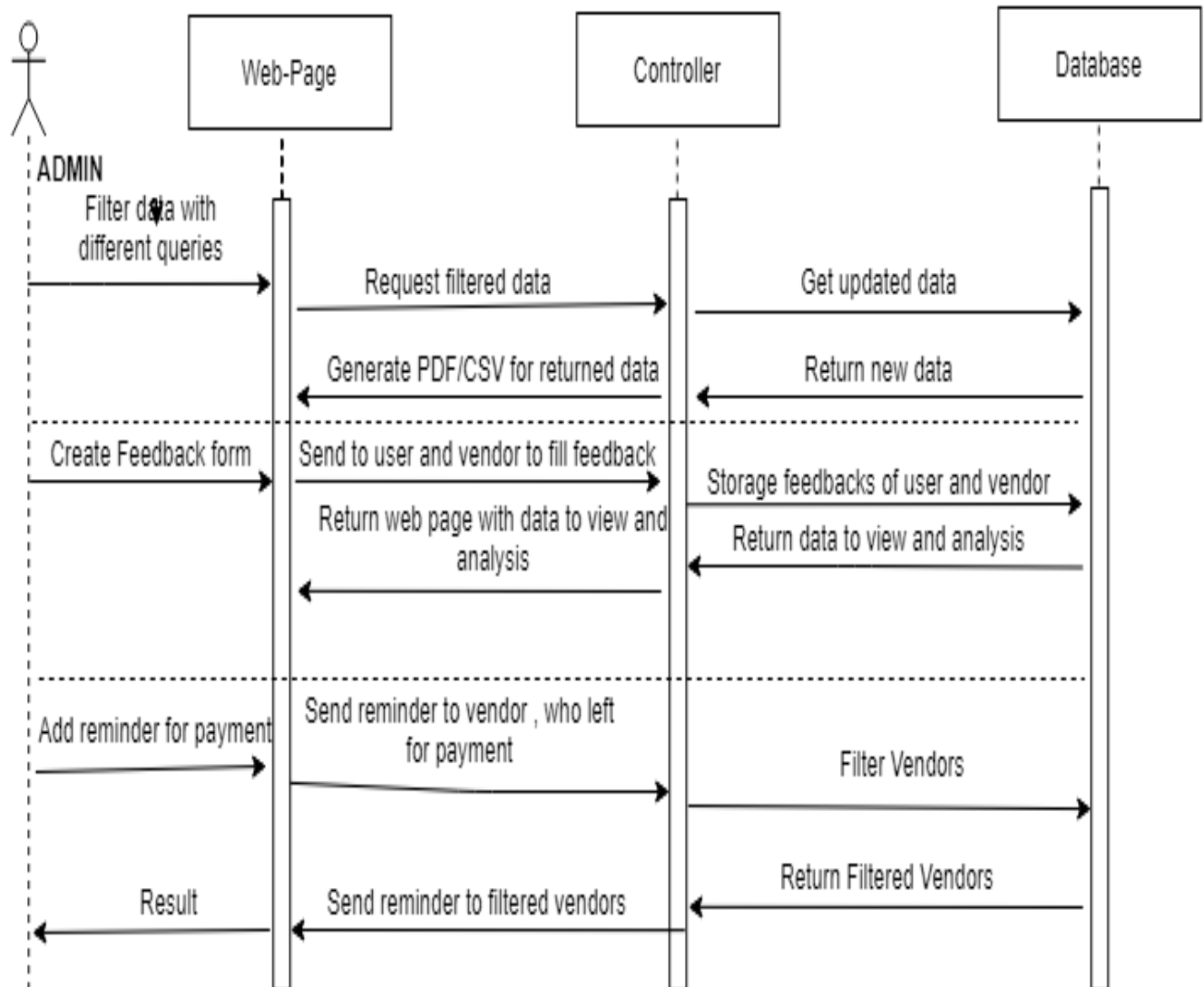
CRC Card

o Class Responsibility Collaboration are used to represent the responsibilities of classes and the interaction between the classes.

o We have implemented CRC instead of class diagram.

Admin

Login	Subscription
Manage Vendor	Feedback
Manage User	
Manage Delivery Boy	
Manage Subscription	
Generate Report	
Collect Feedback from Users and Vendors	
Send Reminder for the payment of Subscription	

Responsibilities   Collaboration

Delivery Boy

Login/Register	Order
View Product for Delivery	Vendor
View User's contact info. To deliver the product	
Accept the request form from open delivery request	
Deliver the product	

Responsibilities   Collaboration

User

Login/Register	
Search & View the Products	Product
Manage Shopping Cart	
Purchase the Product	Order
Product Comparison	
Review The Product	Product Review
Request for Delivery	Delivery
Select Delivery Boy	

Responsibilities   Collaboration

Vendor

Login/Register	
Create Shop & Add Details	Shop
Add & Remove Products	Product
Add & Remove Product Details	Delivery
Manage Photos & Videos of the Shop	
Request for Delivery Boy	
Select Delivery Boy	
View Delivery Boy	
View Delivery Requests	

Responsibilities   Collaboration

User Story

[Click here to access user story](Only access inside DAIICT).

Project Name:	Online Shopping Portal
Guided By:	Prof. JayPrakash Lalchandani
Start Date:	
End Date:	
Created By:	1. Aakash Dubey(201912032) 2. Jay Thakkar(201912065) 3. Rahil Shah(201912080) 4. Aakash Thakkar (201912082)

Product Backlog for Online Shopping Portal

Actors	Epic	User Story ID	User Story	Status	Acceptance Criteria	Priority	Story Point
	As a user I want to view all the street markets so that I can select any specific market to purchase from.	US001	As a user I want to view all the markets available on the selected city so that I can view the products of the market	New		High	11
		US002	As a user I can select the market and view the shops in the market so that I can view the products available in the shop.	New		Low	7
		US003	As a user I want to view all the street shops available in the area so that I can view all the products that is available in the street market	New		High	7
	As a user, I want to view the products so that I can decide which product to buy.	US004	As a user I want to search the product and view which shops are offering the product so that I can decide from where I need to buy from.	New		High	67
		US005	As a user I want to view the products so that I can select which the product to add to cart.	New		High	11
		US006	As a user I want to filter out the products depending upon price and location and time to reach the product so that I can view only relevant products	New		Low	17
		US007	As a user I want to add all the relevant products to my cart without logging so that I dont need to provide my personal information.	New		Low	11
		US008	As a user I want the videos and images and all the relevant information with ratings and prices of the product so that Its easy for me to decide for the products.	New		Low	7
		US009	As a user I want to add all the products to cart so that I can the book the order from.	New		Low	7
		US010	As a user I can add multiple number of products from the same shop into the cart so that I can book order.	New		Low	11
USER	As a user, I want to add the products to cart so that I can purchase the product from and book the order.	US011	As a user I can remove any product from the cart so that I can book only that product from for the order.	New		Low	67
		US012	As a user I can make a offer to vendor for the selected products so that I can get to bargain and get the best deal online.	New		High	67
		US013	As a user I want to decide wether I want to login to the system for booking the products or not So that I dont need to provide all the details to the system.	New		High	11
		US014	As a user I want to book an order through the system so that I can get my products.	New		High	51
		US015	As a user I want the notification on my email about my order so that I can get to know where is my product reached.	New		High	11
		US016	As a user I want the notification on my email as well as on my app about my bargain offer wether accepeted or rejected so that I can decide wheter to order the products or not.	New		Low	11
		US017	As a user I can cancel the booking so that if the order is mistakenly placed or wrong order placed.	New		High	17
		US018	As a user I can return the product if the product is not the same product or the product is damaged so that I can get my money back.	New		Low	11
		US019	As user I want the option of paying the order amount online via any credit card or debit card mode so that I need not to pay the amount at the time of delivery.	New		High	11
		US020	As a user I want to register to the system so that I can view the ordered products and delivery status.	New		Low	7
	As a user, I want to decide the delivery type so that the products can delivery to my house.	US021	As a user I want the delivery to be either self pickup or pick by a delivery man so that I can get freedom of recieving the product.	New		High	7
		US022	As a user I want to select the delivery person so that It provides me the benefit of trusted delivery partner.	New		High	103
		US023	As a user I want to rate the delivery boy according to my delivery experience so that further people can view it.	New		High	7
	As being a vendor, I want to create the profile for the shop so that my shop is also registered for the online shopping.	US024	As a vendor I want to create a account for the shop so that I can sell goods online.	New		High	7
		US025	As a vendor I want to manage profile for the shop so that I can add or update and further details of the shop.	New		High	7
		US026	As a vendor I want to add photos of the shop so that Its easy for use to find the shop.	New		Low	7
		US027	As a vendor I want the option to activate or deactivate my account so that if I dont pay the subscription of any month I can reactivate same account	New		Low	11
	As being a vendor, I can add products to my shop profile with proper description of the product so that the product can be visible to the user.	US028	As a vendor I want to add the products in my shop so that the products can be listed to the user.	New		Low	7
		US029	As a vendor I want to remove the products from the list so that I that product can be removed from the list.	New		Low	17
		US030	As a vendor I want the system to automate the quantity of the product so that user can know wether the product is in stock or not.	New		Low	17
		US031	As a vendor I want to add the details of the product such as video and description of the product so that user can get the visuals of the product.	New		High	17

Role	Epic	ID	User Story	Status		Priority	Estimate
VENDOR		US032	As a vendor I want the notification of the product which user has bargained and made an offer depending upon which I can allow or reject the offer.	New		High	11
		US033	As a vendor I want the details of the booking which products user has booked so that I can dispatch the product.	New		High	7
		US034	As a vendor I want the monthly report of the total number of bookings from the store so that I can asses total bookings	New		High	7

Project Name:	Online Shopping Portal
Guided By:	Prof. JayPrakash Lalchandani
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	2. Jay Thakkar(201912065)
	3. Rahil Shah(201912080)
	4. Aakash Thakkar (201912082)

Product Backlog for Online Shopping Portal

Role	Epic	ID	User Story	Status		Priority	Estimate
	As being a vendor, I can get the orders for the booking so that the order can be dispatch from the shop.	US035	As a vendor I want to choose the delivery boy so that I can send the products to user with proper handling of the product.	New		Low	7
		US036	As a vendor I can open request for the delivery boy so that delivery boy can add details about them and can link them with my bookings.	New		Low	11
		US037	As a vendor I want to add feedback of the delivery boy so that I can rate the work of the delivery boy.	New		High	17
		US038	As a vendor I can confirm the order or cancel the order depending upon the payment recieved so that I can dispatch the orders.	New		Low	17
	As being a vendor I want to take only subscription so that I can continuously use the application.	US039	As a vendor I need to take the subscription of the application so that I can create a vendor's account.	New		High	17
		US040	As a vendor I want the notification of the subscription expiration so that I get to know when my plan is expiring.	New		High	17
		US041	As a vendor I want the option of choosing between multiple plans such as monthly or quarterly or annual plan so that I can choose most suitable for me.	New		High	11
		US042	As a vendor I dont want that amount should be directly deducted from my account so that I its always my choice wether to renew the subscription or not.	New		High	7
DELIVERY	As a delivery boy I want to create an account of mine so that I can get orders that I have to deliver to the user.	US043	As a delivery boy I want to create my delivery boy account so that I can get orders that I want to deliver to the user.	New		High	7
		US044	As a delivery boy I can manage my profile so that I can edit or update my profile details.	New		High	11
		US045	As a delivery boy I can deactivate my account so that I can no longer be a delivery boy in the system.	New		High	17
	As a delivery boy I want the notifications of the order that I want to deliver so that user can get his/her product.	US046	As a delivery boy I want the notification of the product that I want to deliver so the product reaches to its place on time.	New		High	17
		US047	As a delivery boy I want only those product notification which are in my city so that I can deliver the products.	New		Low	17
	As a delivery boy I want the details of the product that I have delivered so that I can get the salary.	US048	As a delivery boy I can view the products so that I can deliver them on time.	New		Low	11
		US049	As a delivery boy I can view customer's detail so that I can deliver the product on the dedicated place and time.	New		Low	7
		US050	As a delivery body I can choose delivery from open request so that delivery can be done.	New		Low	7
		US051	As a delivery boy I can mark the product as delivered in the system so that that product is shown as delivered.	New		Low	7
ADMIN	As an Admin I want to manage the system so that If any problem arises I can resolve it.	US052	As an admin I I want to login to the system so that I can manage the application.	New		Low	11
		US053	As an admin I want to view and update the details of the products so that If any vendor sells illegal products I can delete that.	New		Low	11
		US054	As an admin I can add or delete the market videos so that I can delete the in appropriate video.	New		Low	11
		US055	As an admin I can view and block(remove) the vendor and user so that I can protect the inappropriate activity in the application.	New		High	51
		US056	As an admin I can send the notification for the subscription and reminders for payment so that user can view notifications.	New		Low	61
		US057	As an admin I can disable the vendor account those who have not paid the subscription amount so that the vendor can no longer use that.	New		High	17
	As an admin I want to generate report so that I can view the analysis of the app.	US058	As an admin I can generate the report so that I can analyze the sales and purchase of the application.	New		Low	11
		US059	As an admin I can generate the report for number of users for the application so that I can analyze number of users.	New		Low	11

Programming Contribution
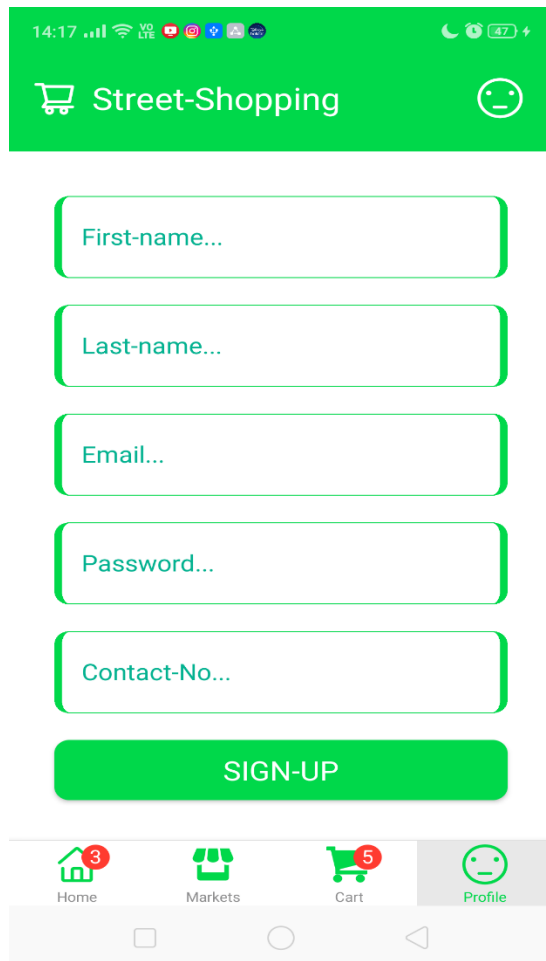
Back-end (REST APIs)

- o We have built our backend using Node JS and Express JS library.
- o We have also used Sequelize library which is powerful library in JS that makes it easy to manage a SQL database. Sequelize is an Object-Relational Mapper – meaning that it maps an object syntax onto our database schemas.
- o We have implemented RESTful API of our system using MVC structure which makes handling of requests easy.
- o The database has been hosted on AWS & all the RESTful APIs have been hosted on Heroku. As Heroku is not a proprietary software so, we don't need to pay anything.
- o AWS is allowing 1 million request per month.
- o Heroku allows 75 request per hour.
- o Backend is completed as per the user stories.
  Link for the RESTful APIs - http://street-shopping-2.herokuapp.com/
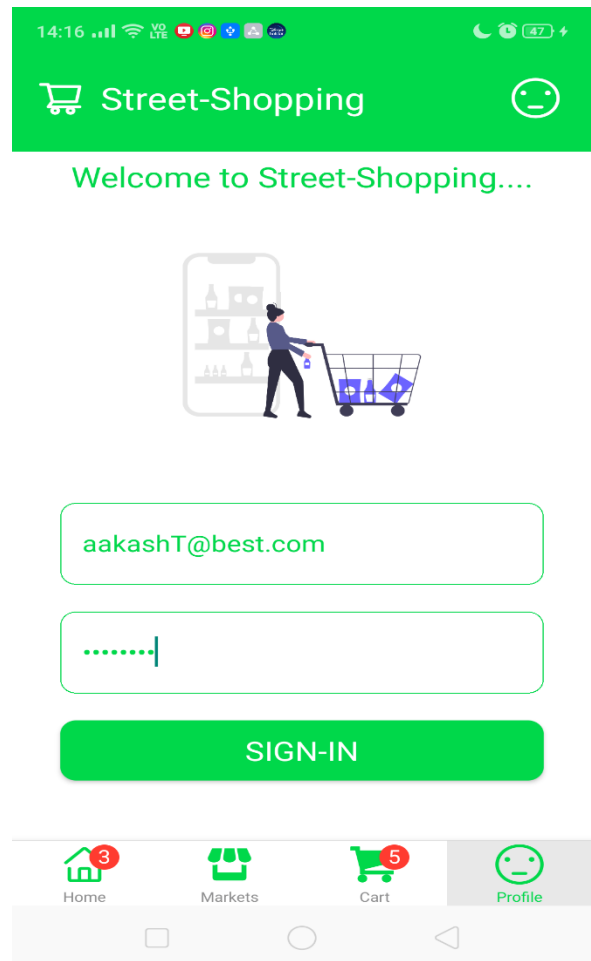
Front-end (Cross Platform Mobile Application)

- o We have built our mobile application using React-Native-CLI.
- o In our system we have 3 modules i.e. User, Delivery and Vendor

In user module we have implemented signup/ sign In, listing of products, market and shop with filter, add to cart.

Signup

Sign In
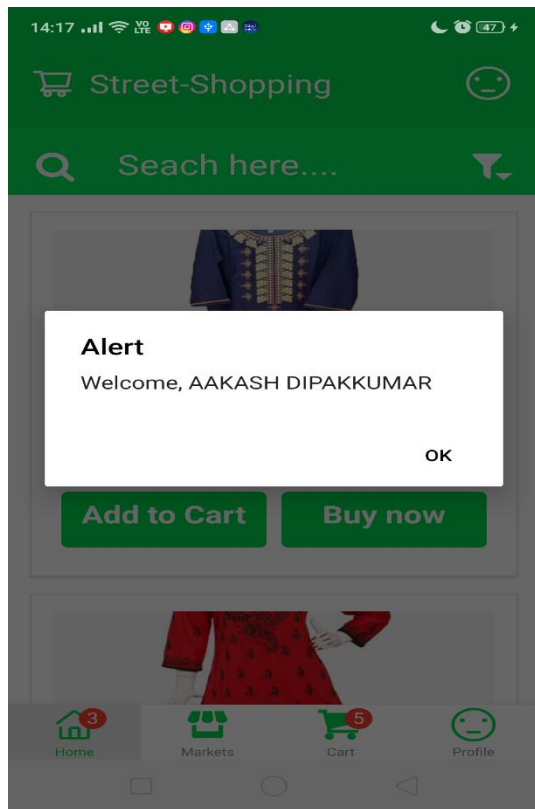
Signed In Successfully
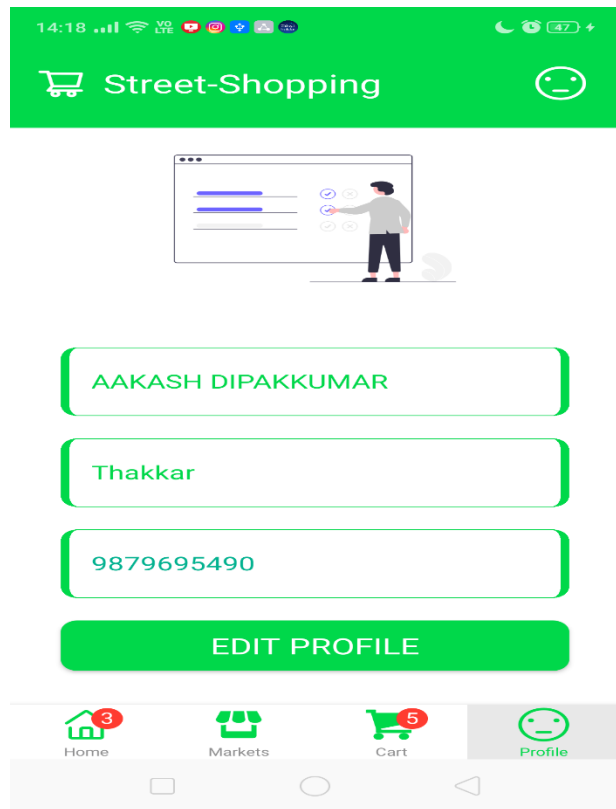
Edit/View Profile
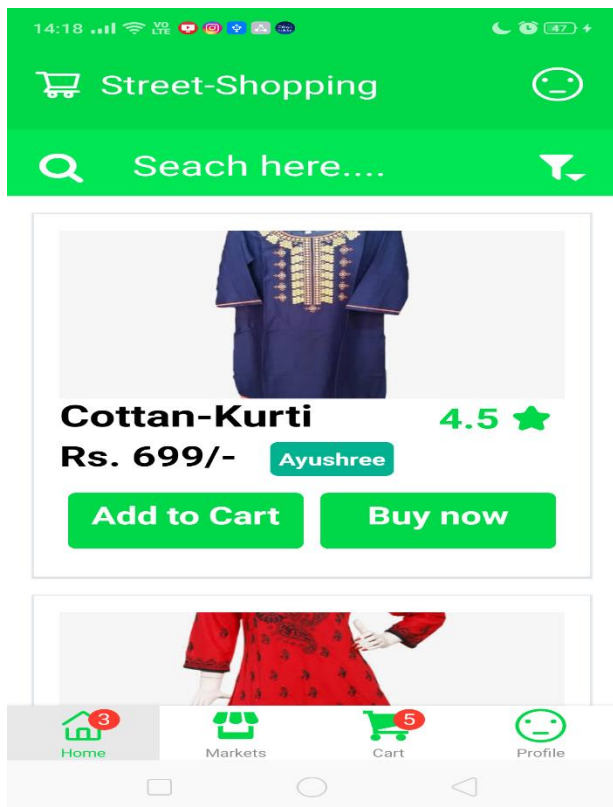
Home Screen/ List of Products
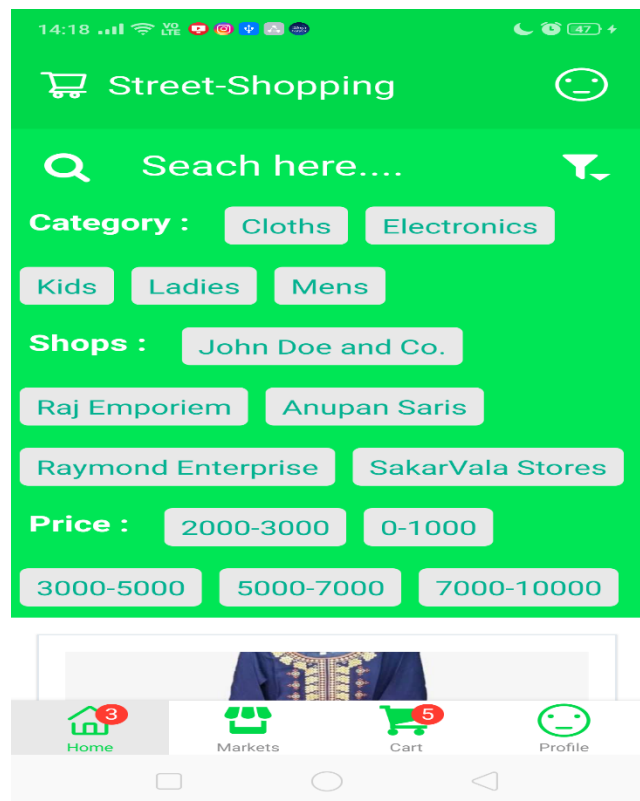
Search & filter
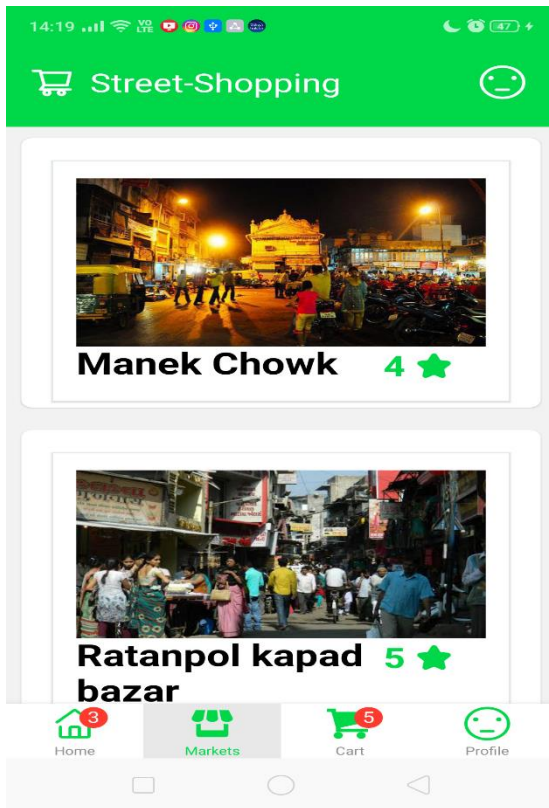
List of markets

Market Details
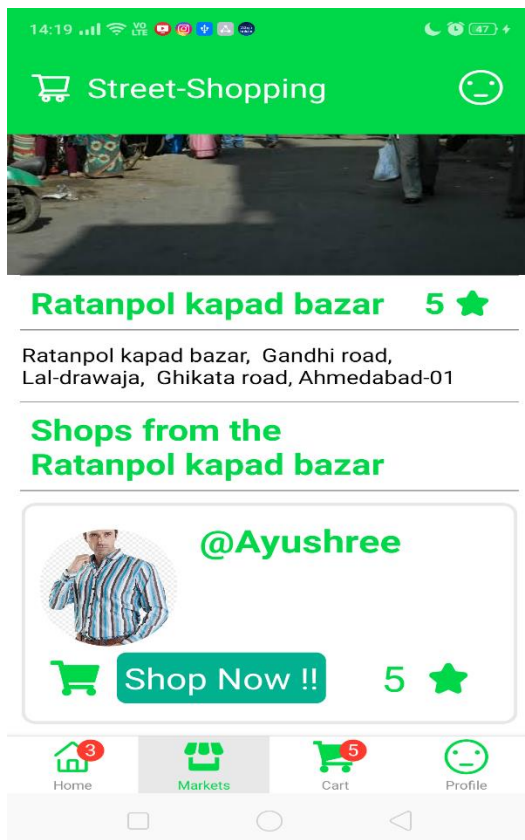
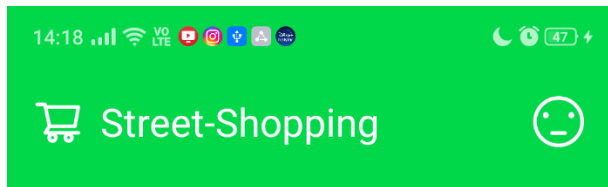List of shops according to the current market
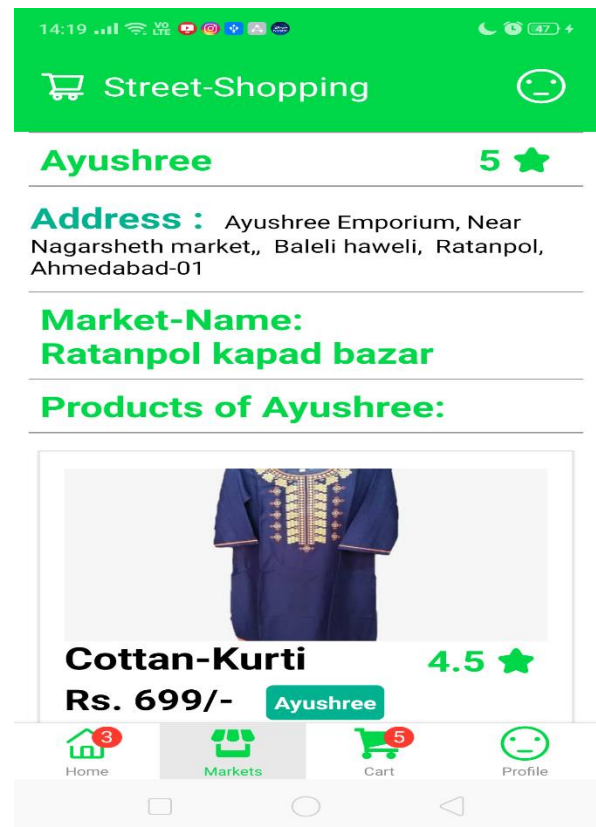
Shop details
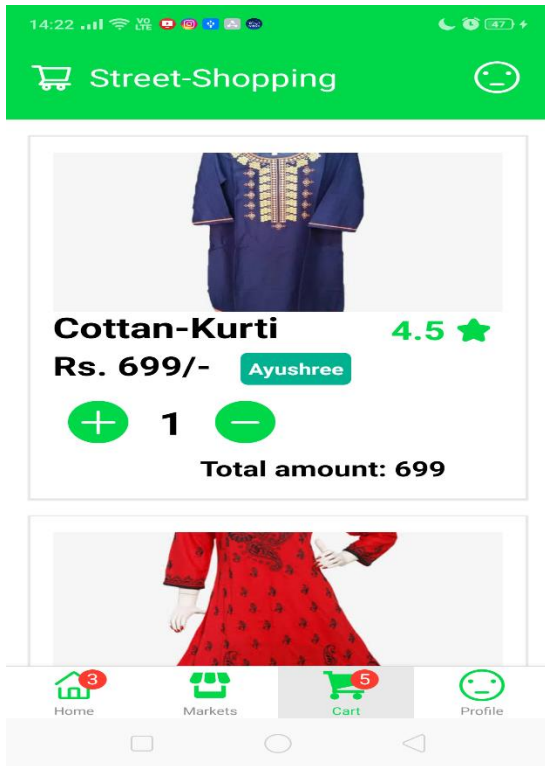
Add to cart
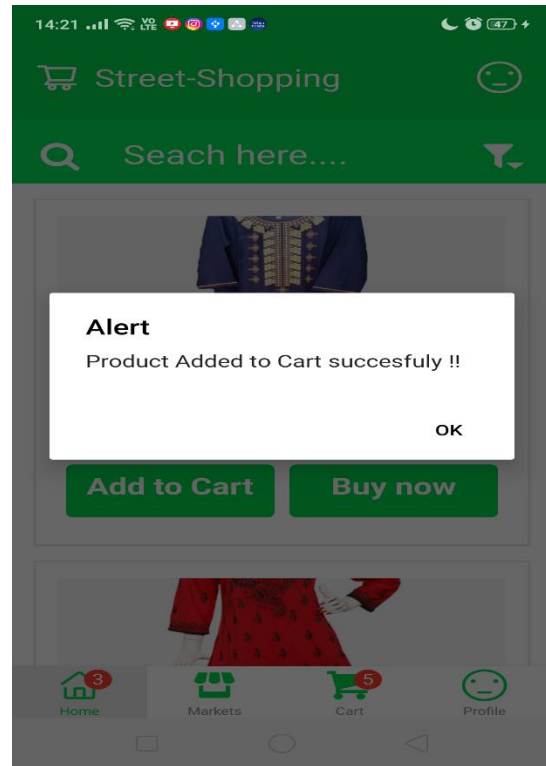
Product added to cart successfully
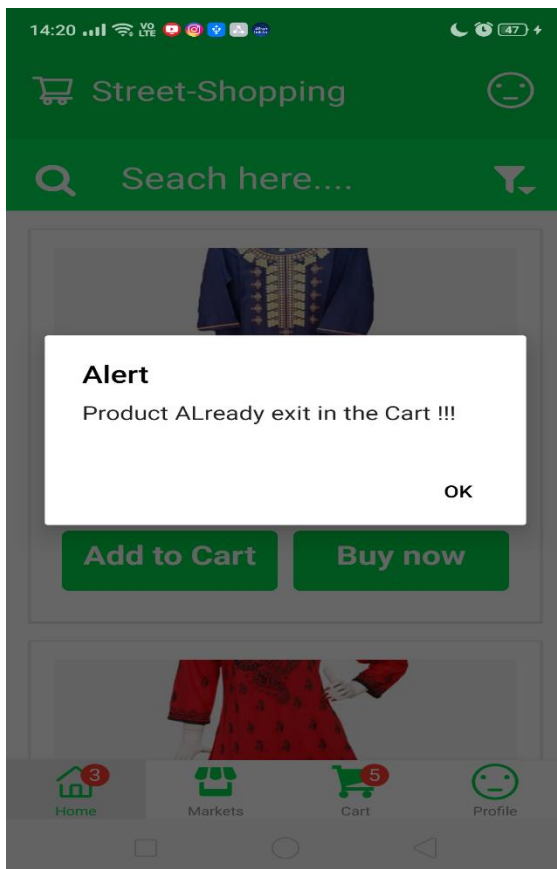
Adding the product twice in a cart
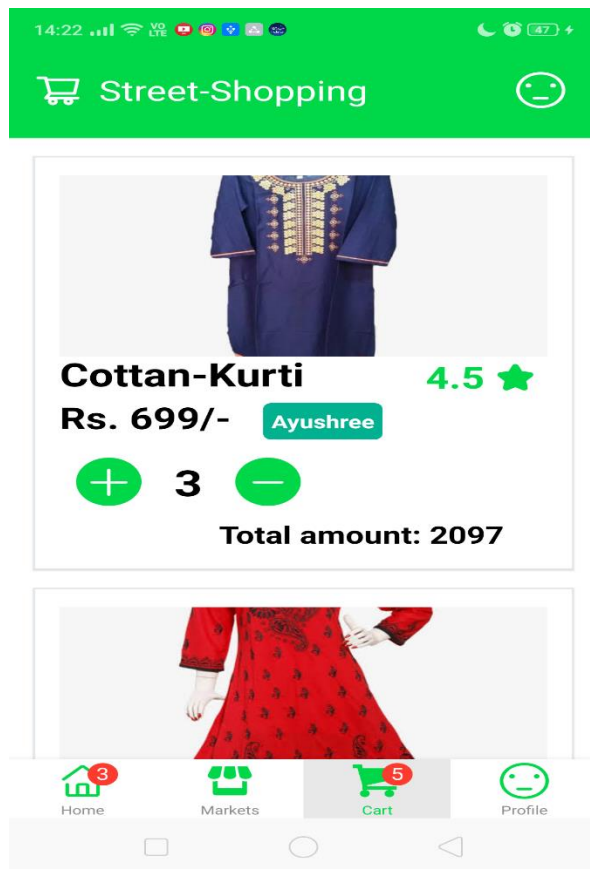
Incrementing the product in the cart
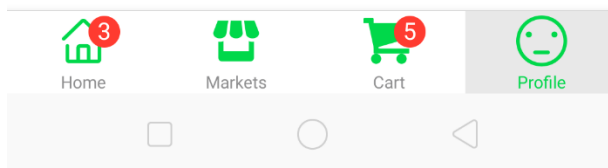
Change/forgot password

In Delivery module, we have implemented signup/ sign In, list of current deliveries, list of deliveries that are open for delivery by vendors, past completed deliveries, edit profile.

Splash Screen

Login Screen

Signup validation

Signup successfully
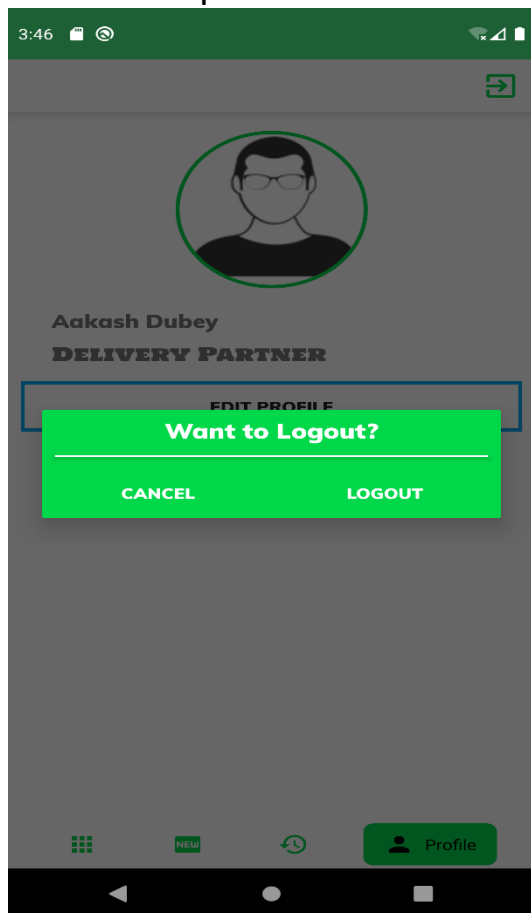

List ongoing deliveries

List of deliveries open for delivery
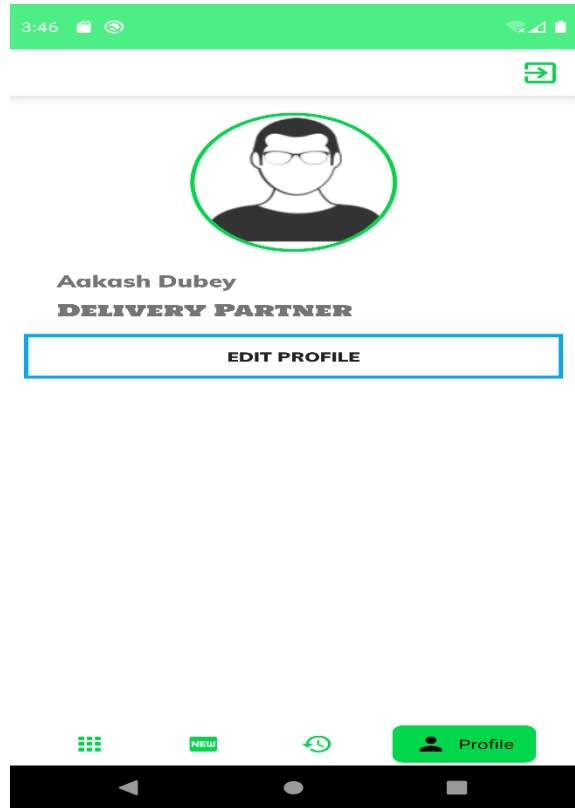
List of past deliveries

Profile Details

Logout Page

Front-end (Admin web-app)

- o We have built our admin web-app in React JS.
- o In admin panel we have implemented the view of all the modules.

Home Page

Manage Delivery Boy

Products

Product Name	Description	Price	Stock
Cottan-Kurti	This is a color-ful Cottan-Kurti.	699	50
Chicken-Kurti	This is a color-ful Chicker-Kurti.	899	50
Hoodie for man	This is amazing hoodie	900	40
T-shirt for man	This is red colour T-shirt	1000	60
Watch	This is amazing Watch	3500	36

Manage Products

Subsciptions

Name	Subsciption	Price	Duration	Date
rahil	quaterly	500	6	28-03-21
Aaditya	Madani	900	6	01-04-21
Malav	Vyas	500	3	01-05-21
Heman	Patel	900	6	25-04-21
Hetvi	Dalal	600	5	04-05-21

Manage Subscriptions

User List

First Name	Last Name	Email	Contact Number
Sam	Carl	sam.carl@gmail.com	9944855776
AAKASH DIPAKKUMAR	Thakkar	aakash1@best.com	9879695490
Jay	Thakkar	jay@gmail.com	8157570755
Rahil	Shah	rahil@test.com	9147671745
Aaksh	Dubey	akdubey@test.com	9248681846

Manage Users

Tools & Technologies

Tools	Technologies	Library
Visual Studio code	HTML	Express JS
Xcode	CSS	Sequelize
phpMyAdmin, MySQL Workbench	Bootstrap	
React-Native-CLI	React Native	
Postman	React JS	
Android Studio	Node JS	
Git & GitHub	MySQL	

Testing Strategies & Reports

We, have used unit testing in our project because it gets easy to test software in a small- scale & it also help in future when the system gets bigger to test unit-wise.

No.	Priority	DevStatus	QAStatus	Defect Module	Defect Screen	Defect Description	Expected Behavior
1	High	Closed	Closed	Login		Email is not unique so that same email is entered twice	Email should be Unique
					local emulator/login		
2	High	Working on it	Pending	signup	local emulator/signup	While doing signup data was not getting	After doing signup data should be get properly
3	High	Closed	Closed	Product	local emulator/product	product images were not getting displayed	product images should be displayed
4	Medium	Working on it	Closed	Forgot Password	local emulator/forgot password	while doing forgot password it was no getting updated	password should be updated properly
5	Low	Closed	Closed	Login	local emulator/login	in password special characters were not taken	special characters, upper case, smaller case and numbers should be there compulsory
6	High	Closed	Closed	Add To Cart	local emulator/addToCart	Multiple items were not getting added to cart	multiple items should be added to cart
7	Medium	Pending	Pending	feedback	local emulator/feedback	when user clicks on the submit button feedback was not getting added	comment should be done for particular review
8	Medium	Testing	Closed	Profile	local emulator/profile	in edit profile user was not able to edit it	user can edit his/her profile
9	High	Pending	Closed	Shop	local emulator/shop	After creating the shop vendor was not redirected to add the shop details	Vendor should be redirected to add the shop details
10	High	Pending	Closed	Product	local emulator/product details	Vendor was unable to add the multiple product	Vendor could add the multiple product of their shop
11	Medium	Pending	Closed	Shop	local emulator/shop	To add the multiple images of the shop in once vendor was unable to do that.	Vendor could add the multiple images of the shop in once.
12	High	Pending	Closed	Delivery	local emulator/delivery	vendor was unable to select the delivery boy	vendor should be able to select the delivery boy
13	High	Closed	Closed	Delivery	local emulator/delivery	delivery boy was unable to see the products that are to be delivered	delivery boy should be able to see the products that are to be delivered.
14	High	Closed	Closed	Delivery	local emulator/delivery	delivery boy was unable to see the customer details to deliver the products	delivery boy should be able to see the suctomer details to deliver the product.
15	Medium	Working on it	Testing	Delivery	local emulator/delivery	delivery boy was unable to select the delivery from open request	delivery boy boy should select the delivery from open request

Lessons Learnt

- o Creating a responsive design for cross platform application.
- o Designing & implementing a large scale system.
- o Hosting RESTful APIs and database on remote server.
- o Learning and implementing simultaneously.
- o Learnt React-Native & React JS.
- o Implementing MVC in large scale system.

Bibliography

- o React-Native: [React-Native Docs](#)
- o Node JS: [Node JS Docs](#)
- o Express JS: [Express JS Docs](#)
- o Sequelize: [Sequelize Docs](#)
- o React JS: [React JS Docs](#)
- o Semantic UI: [Semantic UI Docs](#)
- o Heroku: [Heroku Docs](#)
- o AWS: [AWS Docs](#)

Thank You