1. **Name:** Shravan Shetty

2. **Title:** Shopping Cart

3. **Project Summary:** An implementation of general shopping cart consisting of 3 different types of users namely Customer, Seller and Admin. Each of the users have their own responsibilities. On a high-level once the system is ready any customer can login and buy the items which have listed by the seller. Admin acts as a super user who can add/delete sellers.

4. **Project Requirements:**

Req. Id	Description	Responsibilities
USR-1	As a customer, I should be able to signup/register.	Customer should be asked about username password.
USR-2	As a customer, I should be able to login.	Customer should be validated with username and password.
USR-3	As a customer, I should be able to view items.	Customer should be logged In.
USR-4	As a customer, I should be able add items to cart.	Customer should be logged In.
USR-5	As a customer, I should be able to delete items in the cart.	Customer should select the items added to delete.
USR-6	As a customer, I should be able to checkout and pay.	Customer should have created an order and give the order id.
USR-7	As a customer, I should be able to view previous orders.	Customer should be logged in and give the order id.
USR-8	As a customer, I should be able to search for an item by name.	Customer should enter the name of the item.
USR-9	As a seller, I should be able to signup/register.	Seller should be asked about username and password
USR-10	As a seller, I should be able to login.	Seller should be validated with username and passoword.
USR-11	As a seller, I should be able to create new category.	Seller should be loggedin and add a category.
USR-12	As a seller, I should be able to add new items.	Seller should provide all the details of a item including category.
USR-13	As a seller, I should be able to view items added by me.	Seller should be logged in and have created items previously.
USR-14	As a seller, I should be able to search for items added by me, based on name	Seller should provide the name of the item.
USR-15	As an admin, I should be able to login	Admin should be validated with username and password.

USR-16	As an admin, I should be able to add more admins.	Admin should provide username and password for another admin
USR-17	As an admin, I should be able to authenticate sellers.	Seller should have registered for the admin to approve.
USR-18	As an admin, I should be able to remove sellers.	Admin should provide seller id.
USR-20	As an admin/Customer, I should be able to update status.	User should be logged in and should have order details.

5. **UI Mockups: Terminal**

$\Rightarrow$ **Welcome** to **Shopping Cart.**

1. Login
2. Register.

please select your option :

$1 \rightarrow$ username:
password:

$2 \rightarrow$ Name: username:
email: password.
Address:

$\Rightarrow$ **Logged In** as **Admin.**

1. Add another admin
2. Authenticate Sellers.
3. Remove Sellers.
4. Update Order Status.

1 →. please enter the username & passw
for new admin.
username: xxx   Name: _ _
password: xxx   email: _ _
Admin added Successfully

3 → Please Select the Sellers to remo
1. Shravan, Bangalou
2. Keval, Baroda.
3. Neethi, Udupi

Input→ 1, 3
Shravan and Neethi were remov

⇒ Logged In as a Customer

1. Add items . to Cart
2. View Orders .

2→ Your previous Orders.

Order 1
Bag - blue | Bike - Red. |
Bags . | Vehicles . |
Status : Delevered .
. . . ↓

(Additems).

1 → Please list the item numbers to added to Cart. (Press Add 0 in the end).

Items:
1. Blue-bag.
   cat: Bags.
   price: xx
2. Cycle.
   cat: Vehicle
   price: xx
3. Ball
   cat: Sports
   price: xx
4. Laptop
   Cat: Electronics
   price: xx
5. Mobile-Samsung
   Cat: Electronics.
   price: xx

Input: 2, 5, 0. (Cycle, Mobile-Samsung will be added order)

your orders:
Cycle | Price: xxx
Mobile-Samsung. |

⟹ Would you like to checkout? press 1 to go ahead and 0 to go back and add more items.

Input: 1.

your order has been placed.

→ **Logged In as a Seller.**

1. Add a Category
1. Add an item.

1→ Please enter the category name:
   Bags
   Bags has been added.

2→ Please provide More details
   name: Bag
   category: xx
   price: xx

   Bag has been added to items

6. **Class Diagram:**

Please note that I have used MVC where all the classes expect controllers and interfaces are models. View will be separated and will be in the terminal. Controllers use interfaces and their implementation as a service to perform different operations.