



**COMSATS University Islamabad,  
Park Road, Chak Shahzad, Islamabad Pakistan**

# **SOFTWARE DESIGN DESCRIPTION**

**(SDD DOCUMENT)**

**for**  
**GharPey**  
Version 1.0

***By***

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***Bachelor of Science in Computer Science (2016-2020)***

## Table of Contents

<b>1. Introduction.....</b>	<b>1</b>
<b>2. Design methodology and software process model .....</b>	<b>1</b>
<b>3. System overview .....</b>	<b>1</b>
3.1 Architectural design .....	2
3.2 Process flow/Representation .....	3
<b>4. Design Models.....</b>	<b>9</b>
4.1 Class Diagram .....	9
4.2 Sequence Diagram .....	10
4.2.1 Request Order.....	10
4.2.2 Request Service.....	11
4.2.3 Support Ticket.....	12
4.2.4 Payment .....	13
<b>5. Data design .....</b>	<b>14</b>
5.1 Data dictionary .....	15
5.1.1 ADMINS:.....	15
5.1.2 MODERATORS: .....	15
5.1.3 BUYERS:.....	15
5.1.4 PRODUCT:.....	16
5.1.5 PRODUCT_CATEGORIES .....	16
5.1.6 QUESTIONS: .....	17
5.1.7 ANSWERS: .....	17
5.1.8 PRODUCT_TAG:.....	17
5.1.9 PRODUCT_REVIEWS:.....	18
5.1.10 PRODUCT_ORDER:.....	18
5.1.11 ORDERS:.....	18
5.1.12 CITIES:.....	19
5.1.13 STATES:.....	19
5.1.14 COUNTRIES: .....	19
5.1.15 CITY_ARES:.....	20
5.1.16 SELLERS:.....	20
5.1.17 SUPPORT_TICKETS: .....	21
5.1.18 SUPPORT_TICKET_MESSAGES:.....	21
5.1.19 TRANSACTIONS:.....	21
5.1.20 SERVICES:.....	22
5.1.21 SERVICE_CATEGORIES: .....	22
5.1.22 SERVICE_SELLER:.....	23
5.1.23 SELLER_SELLER_REVIEWS:.....	23
5.1.24 SERVICE_QUESTIONS:.....	23
5.1.25 SERVICE_REQUESTS:.....	24
5.1.26 SERVICE_REQUEST_ANSWERS: .....	24
5.1.27 SERVICE_REQUEST_INVOICE_DETAILS: .....	24
5.1.28 SERVICE_REQUEST_QUOTES:.....	25
5.1.29 SERVICE_REQUEST_INVOICES:.....	25
5.1.30 SERVICE_QUESTION_CHOICE:.....	25
5.1.31 SERVICE_REQUEST_ANSWER_TEXT_MULTILINES: .....	26
5.1.32 SERVICE_REQUEST_ANSWER_CHOICES: .....	26
5.1.33 SERVICE_REQUEST_ANSWER_DATES: .....	26
5.1.34 SERVICE_REQUEST_ANSWER_TEXTS:.....	26
5.1.35 SERVICE_REQUEST_ANSWER_DATE_TIMES: .....	26
5.1.36 SERVICE_REQUEST_ANSWER_FILES:.....	27
5.1.37 SERVICE_REQUEST_ANSWER_TIMES: .....	27
5.1.38 SERVICE_REQUEST_ANSWER_BOOLEANS: .....	27
<b>6. Algorithm &amp; Implementation .....</b>	<b>28</b>
6.1 Seller's Registration:.....	28

6.2	Order Product: .....	29
6.3	Order Service:.....	29
6.4	Create Quotation/Invoice for Service Request (Seller):.....	29
6.5	Pay Invoice for Service Request (Buyer):.....	30
6.6	Add New Moderator as Admin: .....	30
6.7	Edit Moderator as Admin:.....	30
<b>7.</b>	<b>Software requirements traceability matrix .....</b>	<b>31</b>
<b>8.</b>	<b>Human interface design .....</b>	<b>32</b>
8.1	Screen images.....	32
8.1.1	Screen Home Web.....	32
8.1.2	Screen Products Search Web .....	33
8.1.3	Screen Checkout Web.....	34
8.1.4	Screen Cart Web.....	35
8.1.5	Screen Settings Web.....	36
8.1.6	Screen Home Mobile.....	37
8.2	Screen objects and actions .....	38
8.2.1	Screen Home Web.....	38
8.2.2	Screen Products Search Web .....	38
8.2.3	Screen Checkout Web.....	38
8.2.4	Screen Cart Web.....	38
8.2.5	Screen Settings Web.....	38
8.2.6	Screen Home Mobile.....	38

# Revision History

Name	Date	Reason for changes	Version

**Application Evaluation History**

<b>Comments (by committee)</b> *include the ones given at scope time both in doc and presentation	<b>Action Taken</b>

**Supervised by**  
**<Supervisor’s Name>**

Signature\_\_\_\_\_

# **1. Introduction**

This project proposal document is intended to describe the system's scope. This document also contains statement of problems and proposed solution, modules, related system analysis, tools and technology, and system benefits.

The proposed system is an initiative to empower hardworking and skilled women by providing them with a market appraisal platform to sell their products and services. Our mission is to increase economic opportunity in Pakistan. The proposed system consists of a web and an android application.

# **2. Design methodology and software process model**

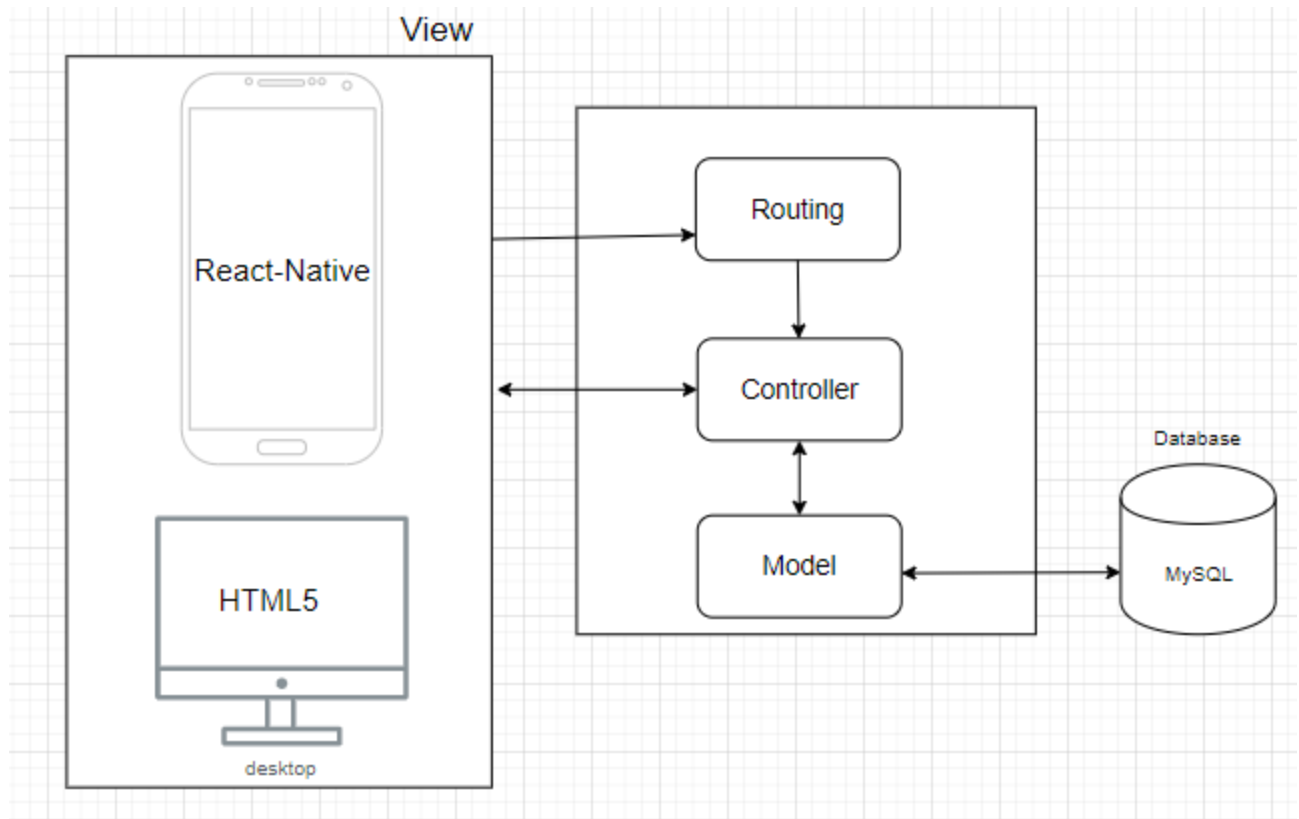
Incremental model is selected because this model make risk management easy as risky pieces are handled during the iterations and as our system requirements are clearly understood. The model generates working software quickly and early during the software life cycle and it is easier to test and debug. Move over, it is flexible and less expensive to change requirements and scope.

# **3. System overview**

There are a huge number of hardworking women in Pakistan who work at home or any workplace making products that they are unable to display and sell on some huge audience platform. Similarly, talented women lack opportunities to deliver local services like Bridal Makeup etc. Whether it's a doorstep service or the service they provide from home/workplace, the issue continues in either way. The proposed system aimed at helping those hardworking talented women by offering a platform to sell their products and services at much lower cost and with less understanding.

The proposed system will allow and encourage the Pakistani women to use digital marketplace and showcase their skills and talent in well-secured manner through this platform. This platform will allow seller to create a shop as her brand, add products on it and sell them. Besides products, sellers can also provide system-defined services that could be either the doorstep service or the home / workplace service they provide Sellers can manage their store portfolios and maintain reputation through buyer reviews to survive the digital market platform. This system allows sellers to create live sessions and increase the visibility of their products to the public. Sellers can keep track of all orders and payments and enjoy popular local payment methods.

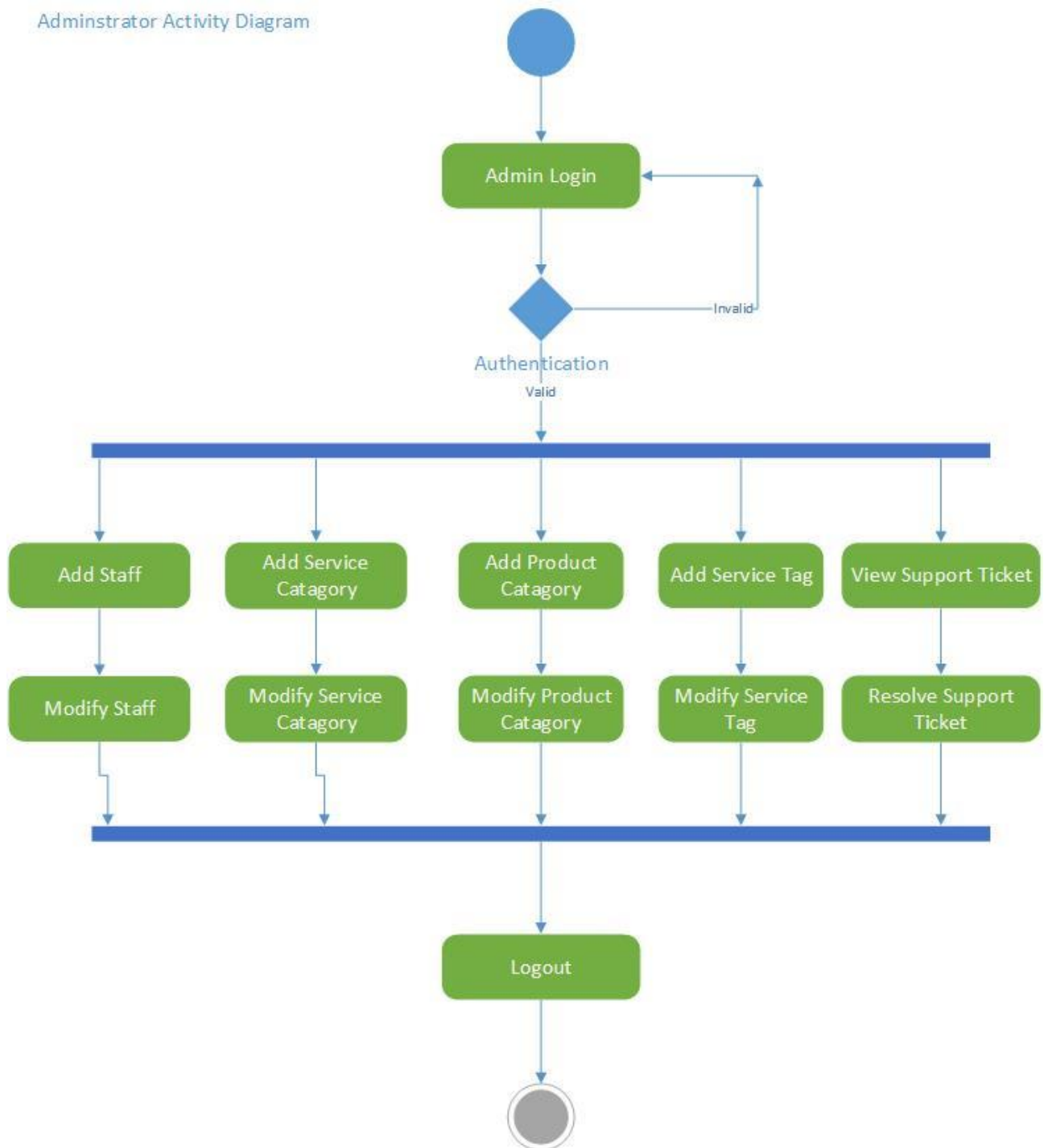
### 3.1 Architectural design



### 3.2 Process flow/Representation

#### Administrator:

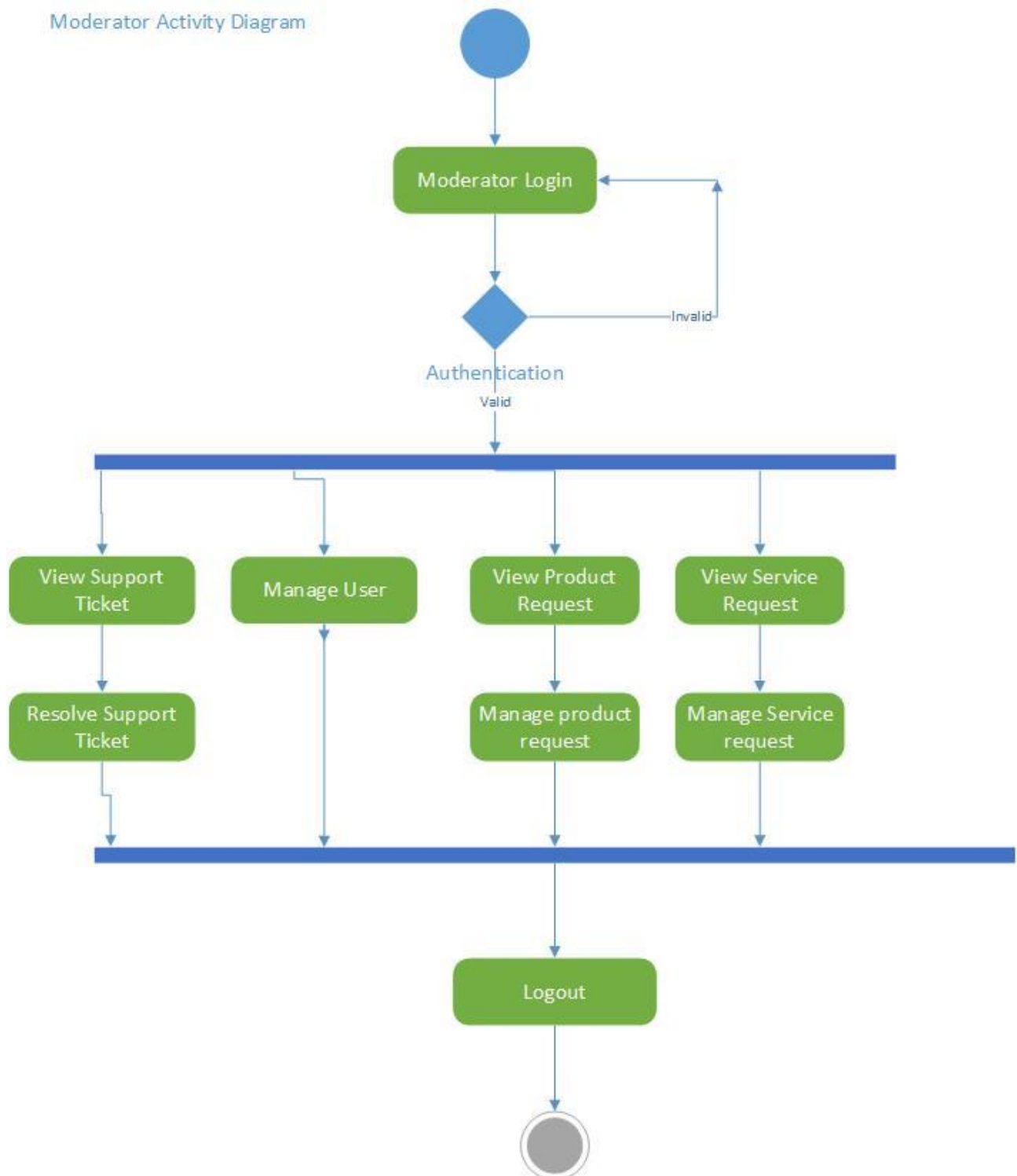
Adminstrator Activity Diagram





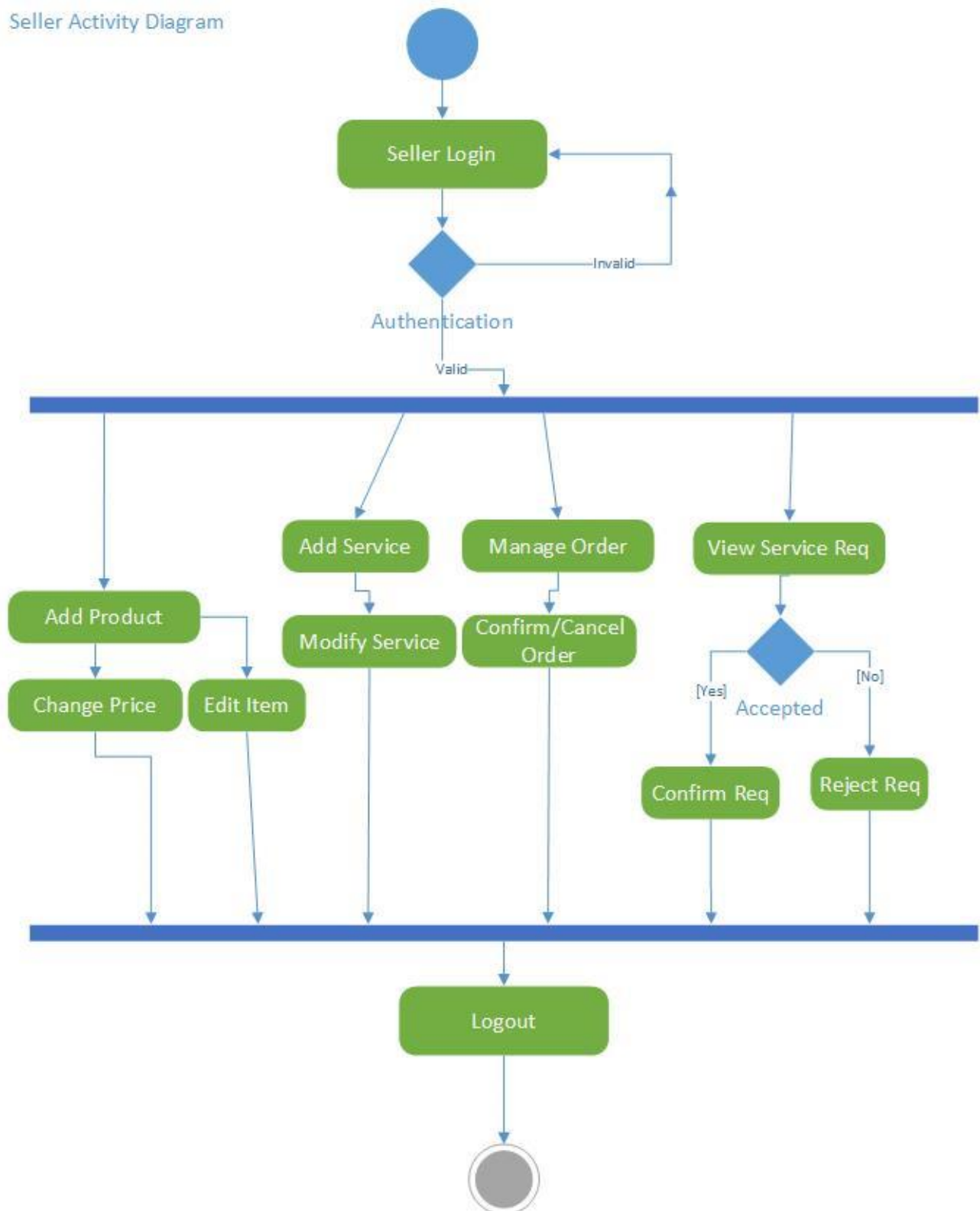
**Moderator:**

Moderator Activity Diagram



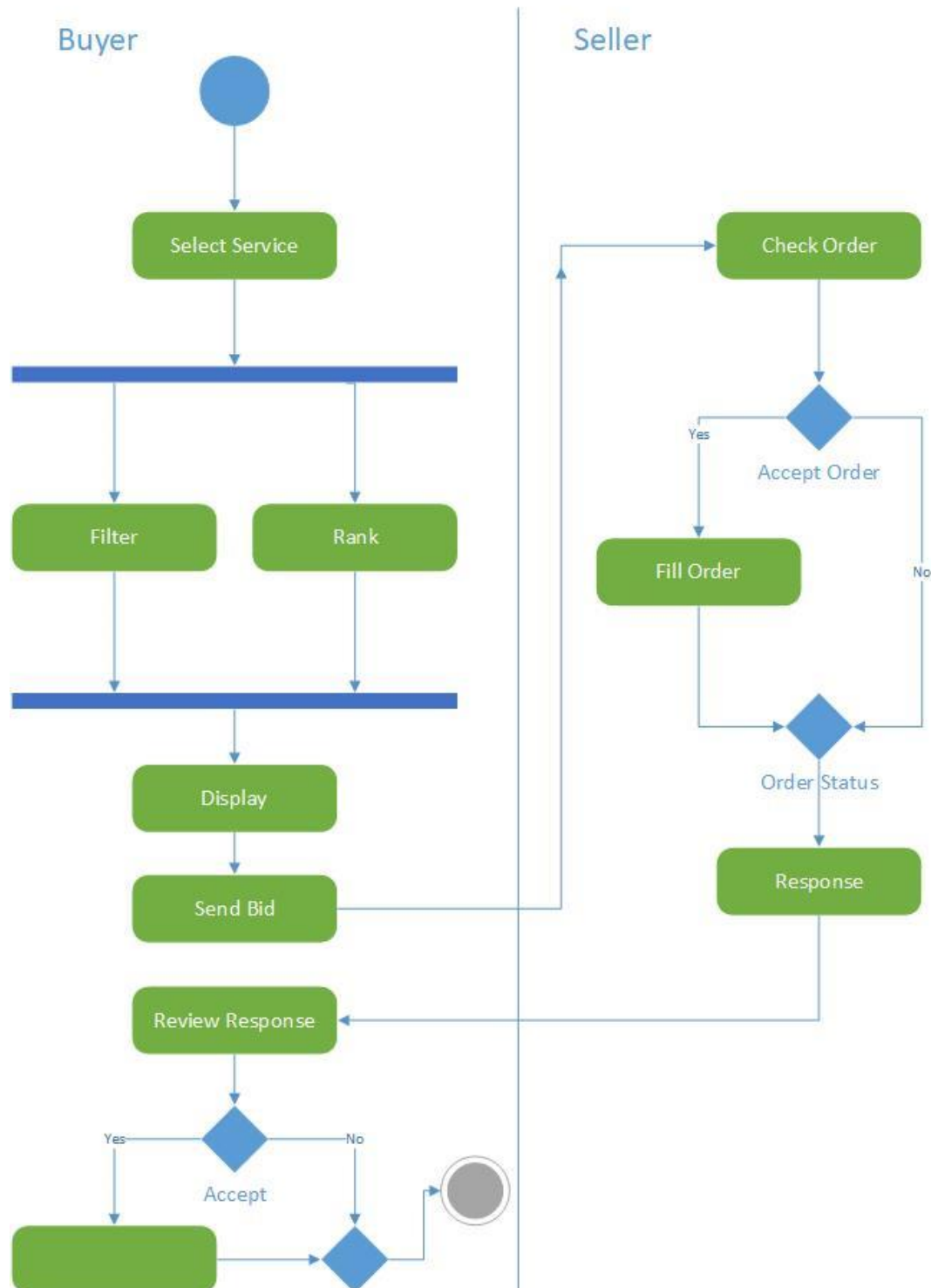
**Seller:**

Seller Activity Diagram



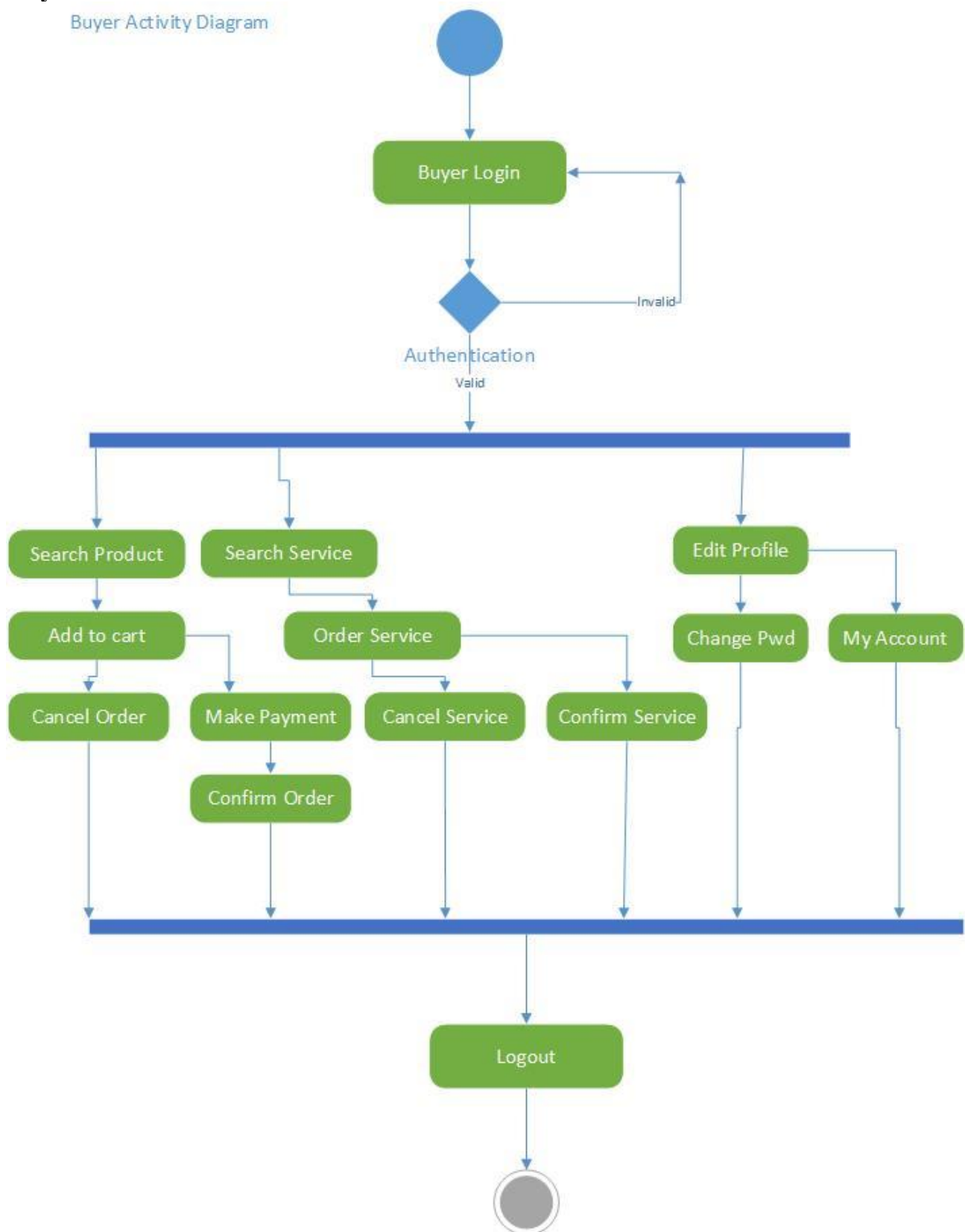
**Service:**

## Service – Activity Diagram



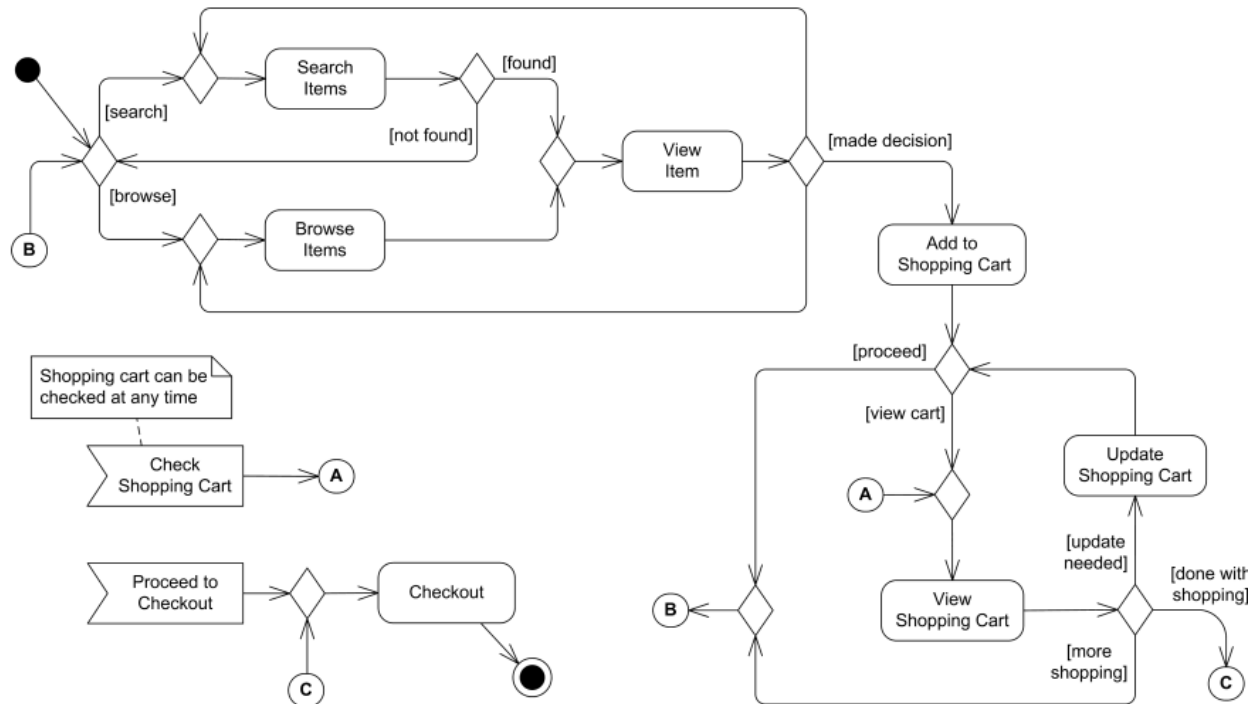
**Buyer:**

Buyer Activity Diagram

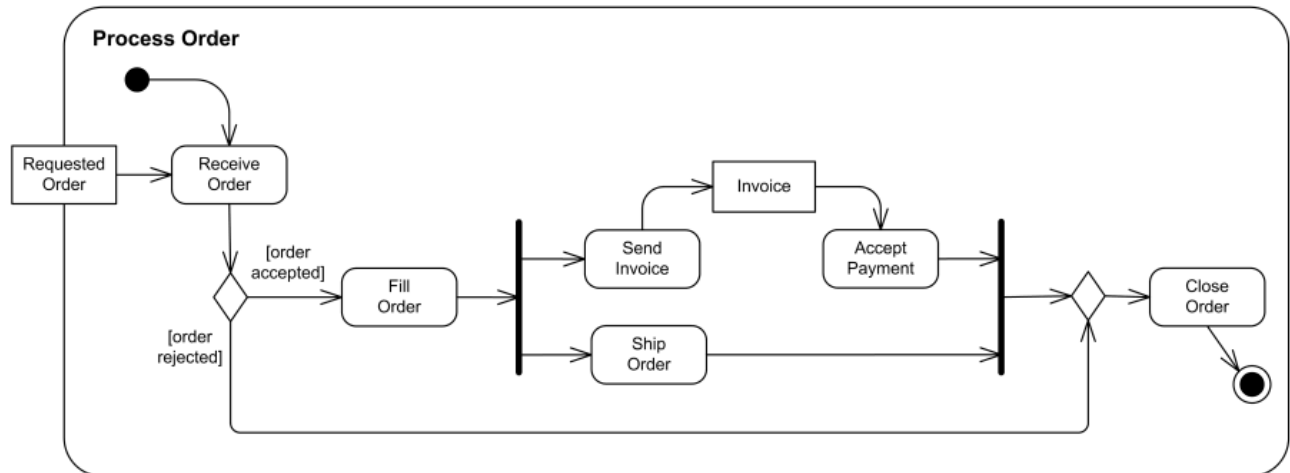


## Online Shopping:

### Online Shopping



## Process Order:

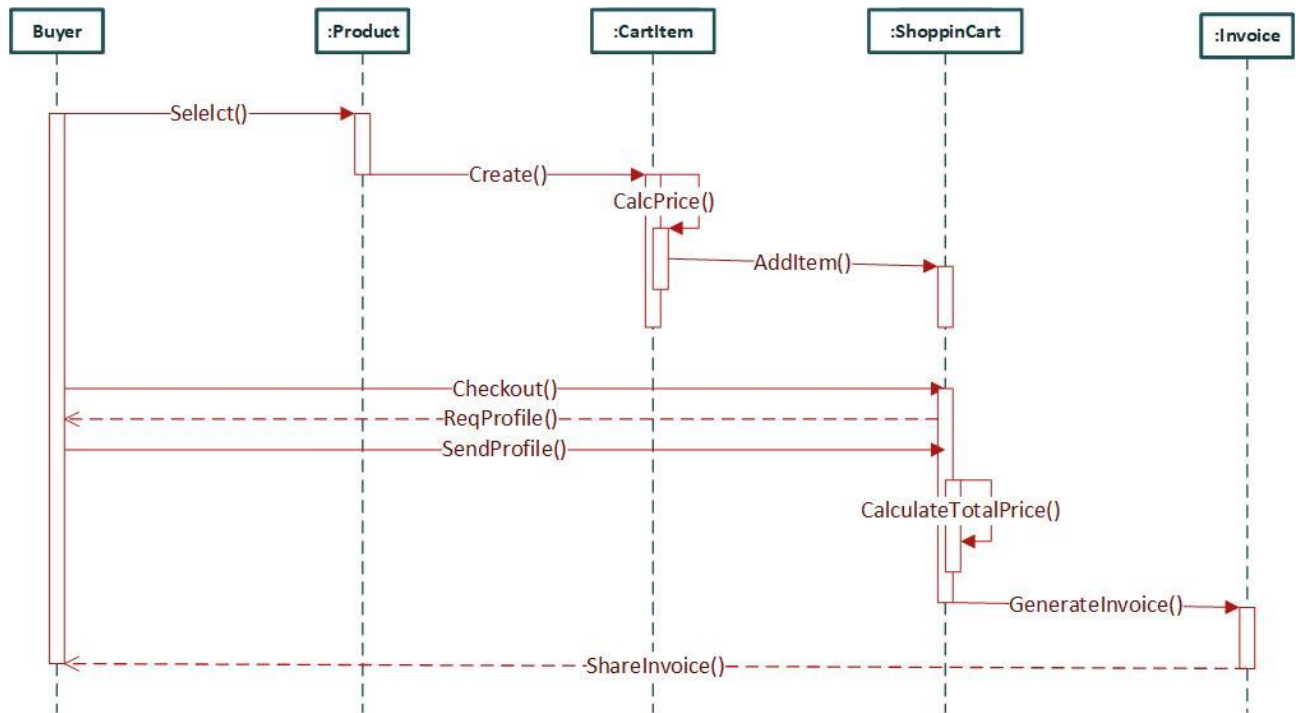


## **4. Design Models**

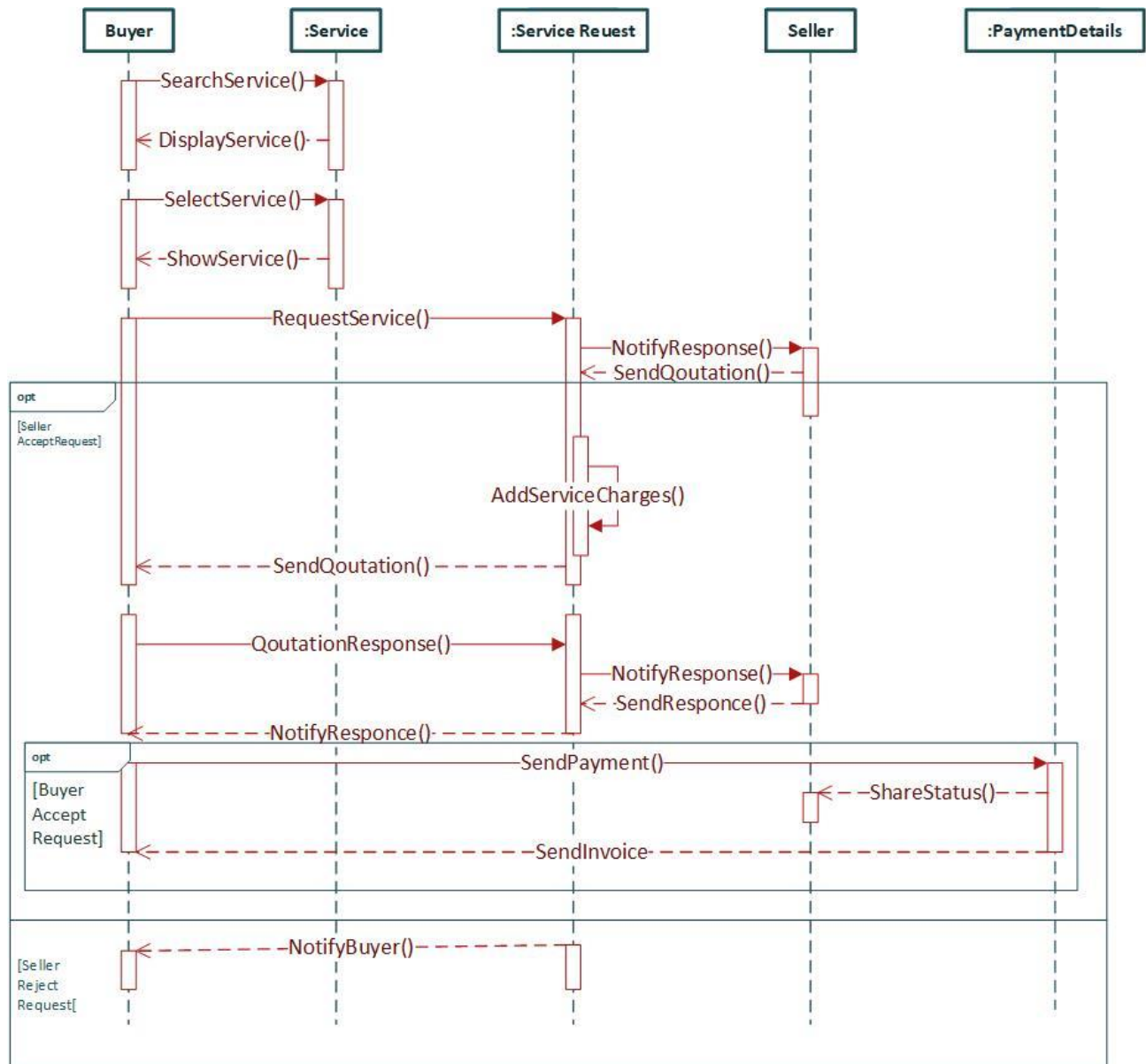
### **4.1 Class Diagram**

## 4.2 Sequence Diagram

### 4.2.1 Request Order

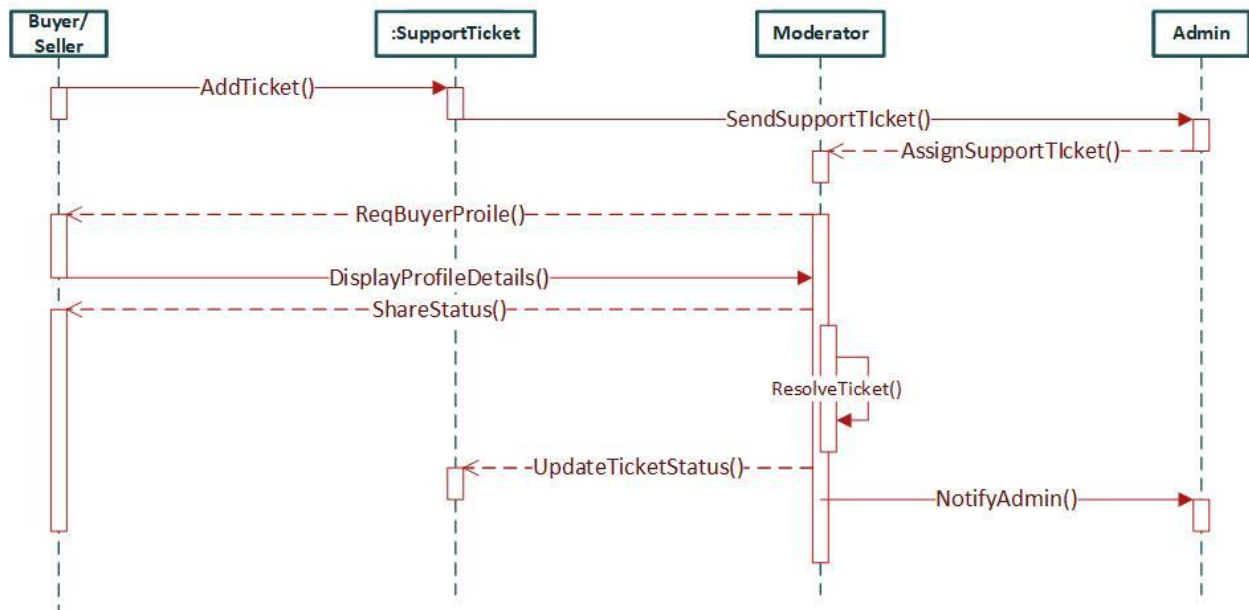


## 4.2.2 Request Service

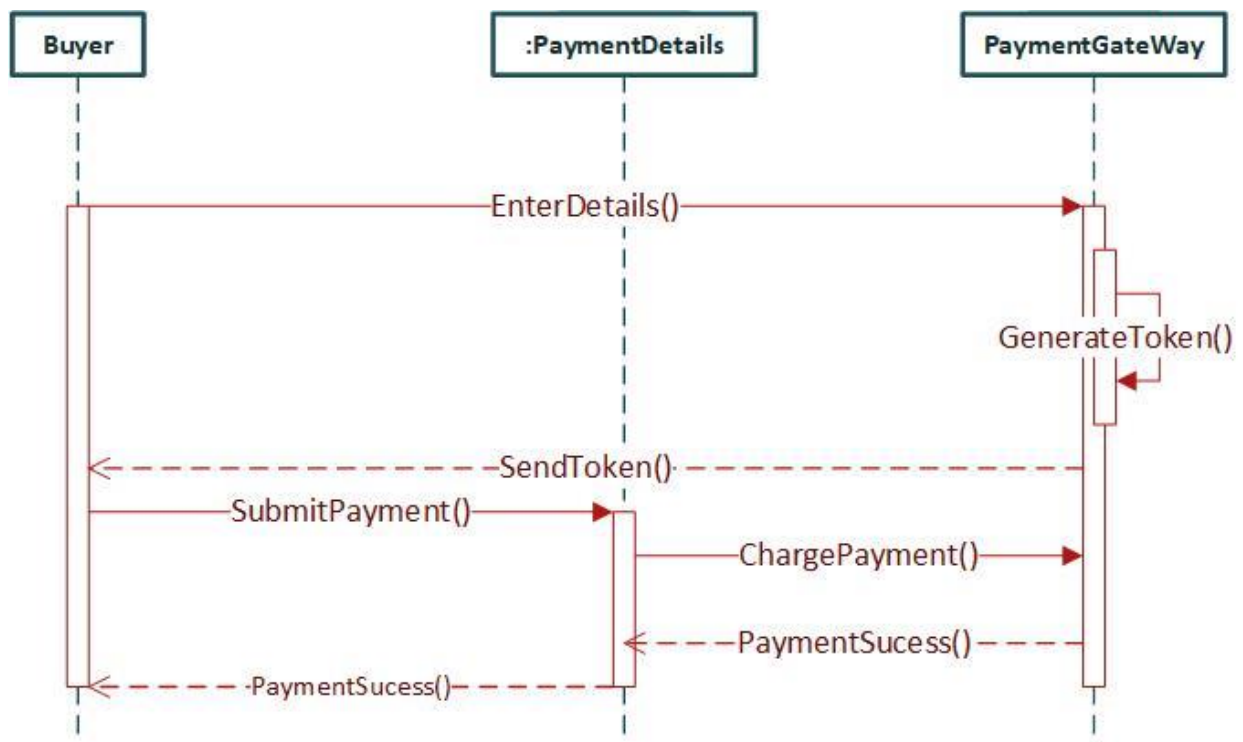




### 4.2.3 Support Ticket



## 4.2.4 Payment



## **5. Data design**

**[ERD Attached]**

## 5.1 Data dictionary

### 5.1.1 ADMINS:

Fields	Data Type	Size
Id	BIGINT	20
Name	VARCHAR	255
Phone	VARCHAR	255
Email	VARCHAR	255
Email_verified_at	TIMESTAMP	
password	VARCHAR	255
Remember_token	VARCHAR	100
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

### 5.1.2 MODERATORS:

Fields	Data Type	Size
Id	BIGINT	20
Name	VARCHAR	255
Phone	VARCHAR	255
Address	VARCHAR	255
Email	VARCHER	255
Location_id	INT	10
Email_verified_at	TIMESTAMP	
password	VARCHAR	255
Remember_token	VARCHAR	100
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

### 5.1.3 BUYERS:

Fields	Data Type	Size
--------	-----------	------

Id	BIGINT	20
Email	VARCHAR	255
Name	VARCHAR	255
Phone	VARCHAR	255
Address	VARCHAR	255
Location_id	BIGINT	10
Email_verified_at	TIMESTAMP	
password	VARCHAR	255
Remember_token	VARCHAR	100
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.4 PRODUCT:

Fields	Data Type	Size
Id	BIGINT	20
seller_id	BIGINT	20
category_id	BIGINT	20
Name	VARCHAR	255
Slug	VARCHAR	255
Featured_image	VARCHAR	255
Description	TEXT	
Price	Decimal	(16,2)
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.5 PRODUCT\_CATEGORIES

Fields	Data Type	Size
Id	BIGINT	20
Name	VARCHAR	255

Slug	VARCHAR	255
Featured_image	VARCHAR	255
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.6 QUESTIONS:

Fields	Data Type	Size
Id	BIGINT	20
Buyer_id	BIGINT	20
Question-title	TEXT	255
question_id	BIGINT	20
Question_description	TEXT	10
item_type	Varcher	255
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.7 ANSWERS:

Fields	Data Type	Size
Id	BIGINT	20
question_id	BIGINT	20
Answer_title	TEXT	255
Answer_description	TEXT	20
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.8 PRODUCT\_TAG:

Fields	Data Type	Size
Id	BIGINT	20
Name	VARCHAR	255

Tag_id	BIGINT	20
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.9 PRODUCT\_REVIEWS:

Fields	Data Type	Size
Id	BIGINT	20
product_id	BIGINT	20
Product_order_ID	BIGINT	20
question_id	BIGINT	20
Review	TEXT	
Rating	SMALLINT	5
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.10 PRODUCT\_ORDER:

Fields	Data Type	Size
Id	BIGINT	20
Order_id	BIGINT	20
Product-id	BIGINT	20
Product_price	DECIMAL	(12,4)
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.11 ORDERS:

Fields	Data Type	Size
Id	BIGINT	20
Buyer_id	BIGINT	20
Shipping_address	VARCHAR	255

Shipping_location_id	BIGINT	20
Charge_id	VARCHAR	255
Note	MEDIUMTEXT	
Paid_at	TIMESTAMP	
Completed_at	TIMESTAMP	
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.12 CITIES:

Fields	Data Type	Size
Id	BIGINT	20
Name	VARCHAR	255
city_id	INT	10
Zip	VARCHER	255
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.13 STATES:

Fields	Data Type	Size
Id	BIGINT	20
Name	VARCHAR	255
Country_id	INT	10
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.14 COUNTRIES:

Fields	Data Type	Size
Id	BIGINT	20
Name	VARCHAR	255



Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

## 5.1.15 CITY\_ARES:

Fields	Data Type	Size
Id	BIGINT	20
Name	VARCHAR	255
City_id	INT	10
ZIP	VARCHAR	255
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

## 5.1.16 SELLERS:

Fields	Data Type	Size
Id	BIGINT	20
Name	VARCHAR	255
Phone	VARCHAR	255
Return_address	VARCHAR	255
Email	VARCHER	255
Approved_at	INT	10
Email_verified_at	TIMESTAMP	
Verification_code	VARCHAR	255
Phone_verified_at	TIMESTAMP	
Cnic	VARCHAR	255
Warehouse_address	VARCHAR	255
Warehouse_location_id	BIGINT	20
password	VARCHAR	255
Remember_token	VARCHAR	100
Return_location_id	BIGINT	20

Business_address	VARCHAR	255
Business_location_id	BIGINT	20
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.17 SUPPORT\_TICKETS:

Fields	Data Type	Size
Id	BIGINT	20
User_id	BIGINT	20
User_type	BOGINT	20
Moderator_id	BIGINT	20
Moderator_type	VARCHAR	255
Resolved_at	TIMESTAMP	
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.18 SUPPORT\_TICKET\_MESSAGES:

Fields	Data Type	Size
Id	BIGINT	20
Support_ticket_id	BIGINT	20
Title	VARCHAR	255
Message	MEDIUMTEXT	
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.19 TRANSACTIONS:

Fields	Data Type	Size
Id	BIGINT	20
user_id	BIGINT	20

User_type	VARCHAR	255
reference_id	BIGINT	20
Reference_type	VARCHAR	255
Type	ENUM	
Amount	DECIMALS	
Balance	DECIMALS	
Note	TEXT	
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.20 SERVICES:

Fields	Data Type	Size
Id	BIGINT	20
category_id	BIGINT	20
Name	VARCHAR	255
featured_image_id	VARCHAR	255
slug	VARCHAR	255
Description	MEDIUMTEXT	
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.21 SERVICE\_CATEGORIES:

Fields	Data Type	Size
Id	BIGINT	20
Name	VARCHAR	255
featured_image_id	VARCHAR	255
slug	VARCHAR	255
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

## 5.1.22 SERVICE\_SELLER:

Fields	Data Type	Size
Id	BIGINT	20
service_id	BIGINT	20
Seller_id	BIGINT	20
Price	DECIMAL	(16,4)
Description	MEDIUMTEXT	
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

## 5.1.23 SELLER\_SELLER\_REVIEWS:

Fields	Data Type	Size
Id	BIGINT	20
Service_seller_id	BIGINT	20
Service_request_id	BIGINT	20
Buyer_id	BIGINT	20
Review	TEXT	
Rating	SMALLINT	5
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

## 5.1.24 SERVICE\_QUESTIONS:

Fields	Data Type	Size
Id	BIGINT	20
service_id	BIGINT	20
Seller_serrvice_id	BIGINT	20
Name	VARCHAR	255
Type	ENUM	
Question	TEXT	10

Is_locked	TINYINT	1
Is_required	TINYINT	1
Auth_rule	VARCHAR	255
item_type	Varcher	255
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.25 SERVICE\_REQUESTS:

Fields	Data Type	Size
Id	BIGINT	20
Service_seller_id	BIGINT	20
buyer_id	BIGINT	20
Location_id	BIGINT	20
Completed_at	TIMESTAMP	
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.26 SERVICE\_REQUEST\_ANSWERS:

Fields	Data Type	Size
Id	BIGINT	20
request_id	BIGINT	20
question_id	BIGINT	20
Answer_id	BIGINT	20
Answer_type	VARCHAR	255
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.27 SERVICE\_REQUEST\_INVOICE\_DETAILS:

Fields	Data Type	Size
--------	-----------	------

Id	BIGINT	20
request_id	BIGINT	20
Detail	Text	
COST	DECIMAL	(8,2)
Quantity	INT	11
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.28 SERVICE\_REQUEST\_QUOTES:

Fields	Data Type	Size
Id	BIGINT	20
request_id	BIGINT	20
Quote	DECIMAL	(8,2)
Type	ENUM	
Note	MEDIUMTEXT	
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.29 SERVICE\_REQUEST\_INVOICES:

Fields	Data Type	Size
Id	BIGINT	20
request_id	BIGINT	20
charge_id	BIGINT	20
Description	MEDIUMTEXT	
Paid_at	TIMESTAMP	
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.30 SERVICE\_QUESTION\_CHOICE:

Fields	Data Type	Size
Id	BIGINT	20
question_id	BIGINT	20
Choice	VARCHAR	255
Created_at	TIMESTAMP	
Updated_at	TIMESTAMP	

#### 5.1.31 SERVICE\_REQUEST\_ANSWER\_TEXT\_MULTILINES:

Fields	Data Type	Size
Id	BIGINT	20
Answer	TEXT	

#### 5.1.32 SERVICE\_REQUEST\_ANSWER\_CHOICES:

Fields	Data Type	Size
Id	BIGINT	20
Choice_id	BIGINT	20

#### 5.1.33 SERVICE\_REQUEST\_ANSWER\_DATES:

Fields	Data Type	Size
Id	BIGINT	20
Answer	DATE	

#### 5.1.34 SERVICE\_REQUEST\_ANSWER\_TEXTS:

Fields	Data Type	Size
Id	BIGINT	20
Answer	VARCHAR	255

#### 5.1.35 SERVICE\_REQUEST\_ANSWER\_DATE\_TIMES:

Fields	Data Type	Size
Id	BIGINT	20
Answer	DATETIME	

**5.1.36 SERVICE\_REQUEST\_ANSWER\_FILES:**

Fields	Data Type	Size
Id	BIGINT	20
File_path	VARCHAR	255
File_type	VARCHAR	255

**5.1.37 SERVICE\_REQUEST\_ANSWER\_TIMES:**

Fields	Data Type	Size
Id	BIGINT	20
Answer	TIME	

**5.1.38 SERVICE\_REQUEST\_ANSWER\_BOOLEANS:**

Fields	Data Type	Size
Id	BIGINT	20
Answer	TINYINT	1



## 6. Algorithm & Implementation

### 6.1 Seller's Registration:

Display Registration form.

Validate Registration form on submission.

If (validation-successful)

    Store seller's information in database

    Set approval to false.

    Set phone verification to false.

    Set email verification to false.

    Send email to seller's provided email address.

Open Email Verification Link

If (valid-verification-link)

    Set seller's email to verified

    Show Success message of email verification

    Show Phone Form Page

    Validate Phone form on submission.

    If (valid-phone-number)

        Send Phone Verification Code

        Show Phone Verification Page

        Validate Verification Code on submission

        If(valid-verification-code)

            Set seller's phone to verified

        Show Address Form

        Validate Addresses on submission

        If (valid-addresses)

            Update Addresses of seller

        Show Approval Status Page

        Else

            Show Error Message

    Else

        Show Error Message

Else

    Show Error Message

Else

    Show Error Message

Else

    Show Error Message

## 6.2 Order Product:

Display “Products”.  
Add Product Items to Cart  
Display Cart Page when click on Cart button  
Display Checkout page when click on Checkout button  
Display Payment Methods  
Display Payment Page of selected payment method  
Validate Payment Information on Submission.

If (validation-successful)  
    Charge Payment  
    Store Product Orders Information in Database  
    Notify Seller of Order  
  
    Show Success Message  
Else  
    Show Error Message

## 6.3 Order Service:

Display “Services”.  
Display Service Page when Select Service  
Display all Sellers for the service  
Display Questions Form for Selected Service  
Validate Questions Inputs on Submission.

If (validation-successful)  
    Create Service Request in database  
    Notify Seller  
  
    Show Success Message to wait for quotation  
Else  
    Show Error Message

## 6.4 Create Quotation/Invoice for Service Request (Seller):

Display “Service Requests”.  
Display ServiceRequest Page when Select Service Request  
Display Answers for Selected Service Request  
Display Invoice/Quote Form  
Validate Invoice Inputs on Submission.

If (validation-successful)  
    Create Invoice for Service Request in database  
    Notify Buyer  
  
    Show Success Message  
Else  
    Show Error Message

## 6.5 Pay Invoice for Service Request (Buyer):

Display “Service Requests”.  
Display ServiceRequest Page when Select Service Request  
Display Invoices for Service Request  
Display Payment Form when select Unpaid Invoice  
Display Payment Methods  
Display Payment Page of selected payment method  
Validate Payment Information on Submission.

If (validation-successful)  
    Charge Payment  
    Store Payment Information in Database for Service Request  
    Notify Seller of Payment  
  
    Show Success Message of successful order placement.  
Else  
    Show Error Message

## 6.6 Add New Moderator as Admin:

Display “Add Moderator” form.  
Validate form on submission.  
  
If (validation-successful)  
    Store moderator’s information in database  
    Send welcome email to moderator’s email address along with their password.  
  
    Show Success Message  
Else  
    Show Error Message

## 6.7 Edit Moderator as Admin:

Display “Edit Moderator” form.  
Validate form on submission.  
  
If (validation-successful)  
    Update moderator’s information in database  
  
    Show Success Message  
Else  
    Show Error Message

## 7. Software requirements traceability matrix

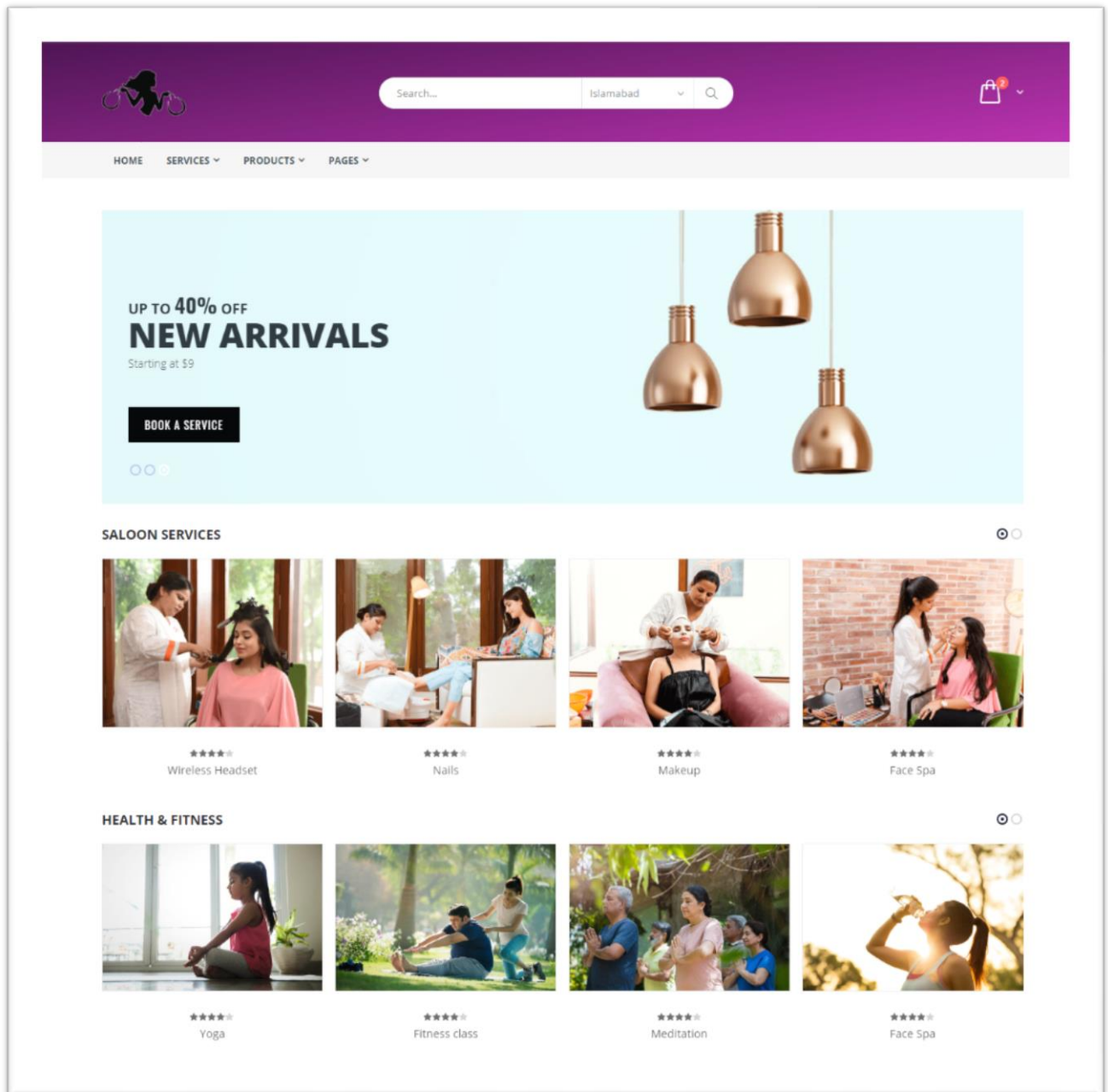
**Table 1 Requirements Traceability Matrix**

<b>Req. Number</b>	<b>Ref. Item</b>	<b>Design Component</b>	<b>Component Items</b>
FR001-FR014	Class Diagram	Person	Register(), Login(),
FR021-FR026, FR031-FR034	Class Diagram	Person	UpdateProfile()
FR312-FR320	Class Diagram	Admin	ApproveSeller()
FR107-FR124	Class Diagram	Moderator, SupportTicket	TakeSupportTickets(), ResolveSupportTicket()
FR045-FR051	Class Diagram	Moderator	ApproveProduct()
FR066-FR073	Class Diagram	Moderator	ApproveService()
FR001-FR014	Class Diagram	Seller	VerifyPhone(), VerifyEmail()
FR045-FR055	Class Diagram	Seller	AddProduct(), ModifyProduct()
FR066-FR076	Class Diagram	Seller	AddService(), ModifyService()
FR149-FR152	Class Diagram	Buyer	RequestService(),
FR199-FR204	Class Diagram	Buyer	SearchProduct()
FR147-FR148	Class Diagram	Buyer	SearchService()
FR126-FR138	Class Diagram	Buyer	Checkout()
FR252-FR269	Class Diagram	ProductCategory	CreateCategory(), ModifyCategory()
FR272-FR289	Class Diagram	ServiceCategory	CreateCategory(), ModifyCategory()
FR292-FR310	Class Diagram	Tags	CreateTag(), ModifyTag(),
FR141-FR142	Class Diagram	Service	DisplayService(), GetServiceReviews()
FR199-FR200	Class Diagram	Product	DisplayProducts(), GetProductDetails(),
FR133-FR-135	Class Diagram	Order, ShippingInfo	PlaceOrder(), UpdateShippingInfo()
FR136-FR-137	Class Diagram	PaymentGateway	PaymentRequest(), PaymentResponse()

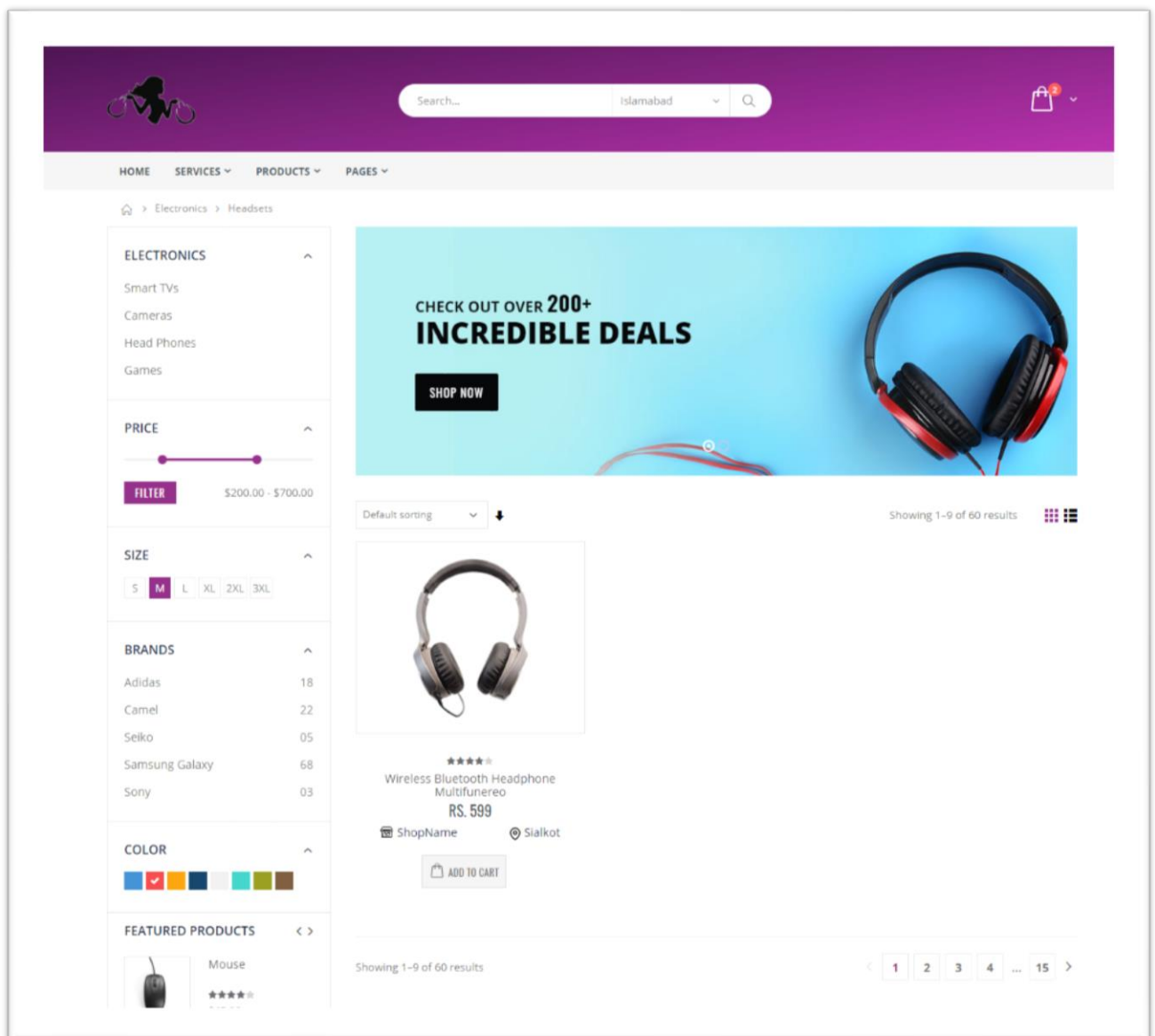
## 8. Human interface design

### 8.1 Screen images

#### 8.1.1 Screen Home Web



## 8.1.2 Screen Products Search Web



### 8.1.3 Screen Checkout Web

HOME SERVICES PRODUCTS PAGES

Checkout

Shipping Review & Payments

Shipping Address

Email Address \*

Password \*

You already have an account with us. Sign in or continue as guest.

LOGIN Forgot your password?

First Name \*

Last Name \*

Company

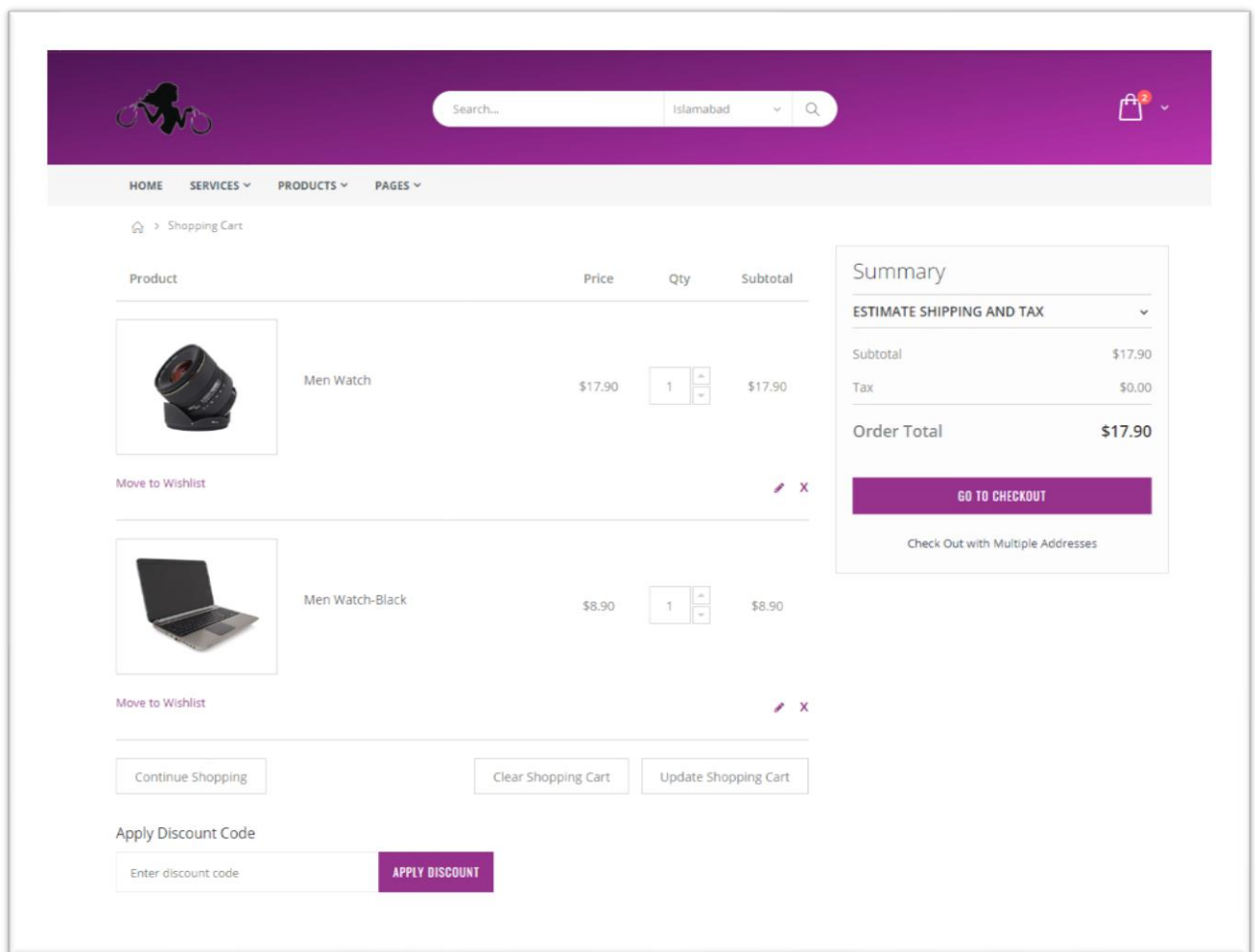
Street Address \*

City \*

Summary

2 PRODUCTS IN CART

## 8.1.4 Screen Cart Web





### 8.1.5 Screen Settings Web

**My Account**

- Account Dashboard
- Account Information
- Address Book
- My Orders
- Billing Agreements
- Recurring Profiles
- My Product Reviews
- My Tags
- My Wishlist
- My Applications
- Newsletter Subscriptions
- My Downloadable Products

**Edit Account Information**

First Name \*

Last Name \*

Email \*

Password \*

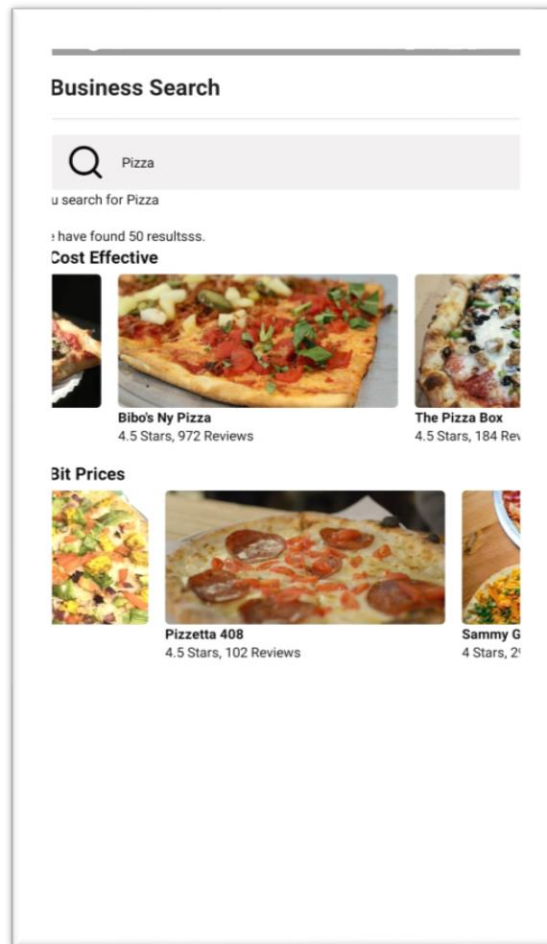
☐ Change Password

[< Back](#)

[SAVE](#)

\* Required Field

### 8.1.6 Screen Home Mobile



## **8.2 Screen objects and actions**

### **8.2.1 Screen Home Web**

This is main screen of web application. It will be accessible to all users. It will display the top products and services to users.

### **8.2.2 Screen Products Search Web**

This is page have search and filters form for products. This page shows products from queried inputs.

### **8.2.3 Screen Checkout Web**

This page show payment methods and payment forms to user after they proceed from cart.

### **8.2.4 Screen Cart Web**

This page shows all product items to user that they have added in their cart. This page is used to review products and finalize order.

### **8.2.5 Screen Settings Web**

This is settings page for user. A user must be logged in to access this page. This page can be used to update profile information like name and address Info.

### **8.2.6 Screen Home Mobile**

This is main screen of mobile application. It is accessible to all users. It displays the top products to users.