

# ***System Documentation***

## ***SOFTWARE DESIGN AND ARCHITECTURE***

### **PHASE - 2**

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**Import as a maven project**  
**Run on eclipse EE**

## **So here is a built-in user to login with:**

Username: aemoein

Password: 1234

## **And here is the admin access:**

Username: admin

Password: 12345

## **User Guide:**

As soon as the user opens the system the user is prompted to the first menu which gives the user the choice to login or sign up.

### **Sign Up:**

if the user chooses to sign up the user enters his data including his username, email, desired password.

The system then checks if the user is already present or not.

If the username and email are new the system a new account is created and the user is prompted to the login menu.

### **Login:**

The User is asked to enter his username (or Email) and password.

If the username is stored in our database the system checks if the password is correct or not, if correct allows the user access to the system.

### **Main Menu:**

The main menu has several options for the users which includes the services, the refunds, transactions, view account, wallet options, and an exit option.

### **Services:**

If the user chooses services option a service menu is displayed where the user is required to choose from one of the available services which include Mobile Recharge, Internet Payment, Landline, and Donations.

As soon as the user chooses the service the user is prompted to choose one of the service providers.

After the user chooses the service provider the service provider form is displayed where the user is required to enter some information usually (the phone number or the amount or both).

As soon as the information is entered the user is then prompted to the payment form.

### **Payment:**

The payment form displays the service requested and the amount to be paid and then displays the payment method menu which allows the user to choose from cash, visa and wallet.

The visa and cash payment methods both pay directly while the wallet has to check if funds are available. If funds are available the system deducts the amount from the wallet.

After payment is completed, the transaction is saved for later reference and the user is returned to the main menu.

## **Refunds:**

If the user choose refunds the user is prompted to the refund menu to choose from

1. Request A Refund
2. Check Refund Request

Request a refund prompts the user to the Request Refund Form which displays the user transactions and asks you to enter the Id of the transaction you would like to request a refund for when user enter the id of the transaction a refund request is created and sent to the admin.

Check Refund Request displays all the refunds requested by the user and the status of the request (Accepted, Rejected, or Pending).

## **Transactions:**

This option displays all transactions done by the user.

## **View Account:**

Displays all the user's data including the full name, username, and email.

## **Wallet Options:**

If the user chooses wallet options the use is prompted with the wallet menu to choose from

1. View Funds
2. Add Funds

View Funds Displays the balance in the user wallet.

Add Funds Displays a menu where the user enters the amount he would like to add to the wallet and then displays the new wallet balance.

## **Exit:**

Returns the user to the login menu.

## **Admin Guide:**

The admin also has pass through the login form however the login form checks the user authorization if the user has authorization, then he is an admin.

Admin enters his credentials  
(Username: admin; password: 12345)

After the admin logs in the admin form is displayed.

## **Admin Form:**

Admin Form contains several options for the admin to perform the tasks required by him. These options are Process Refund Request, Add Service Discounts, Add Overall Discount and Display Data.

## **Process Refund Request:**

the system displays the refund transaction and gives the admin an option to accept or reject the refund request and if the refund request is accepted the status of the request is updated and the money is transferred to the user wallet and the new wallet balance is updated and displayed.

## **Add Service Discounts:**

The system displays all the services that are eligible for discount and asks the admin to choose one of the services to add discount to.

When the admin selects the service, the discount is added to the service.

### **Add Overall Discount:**

The system displays all users with the user-id and the admin is required to enter the id of the user he needs to give an overall discount to.

When the id is entered the user is saved in the database as he will have a discount≥

### **Display Data:**

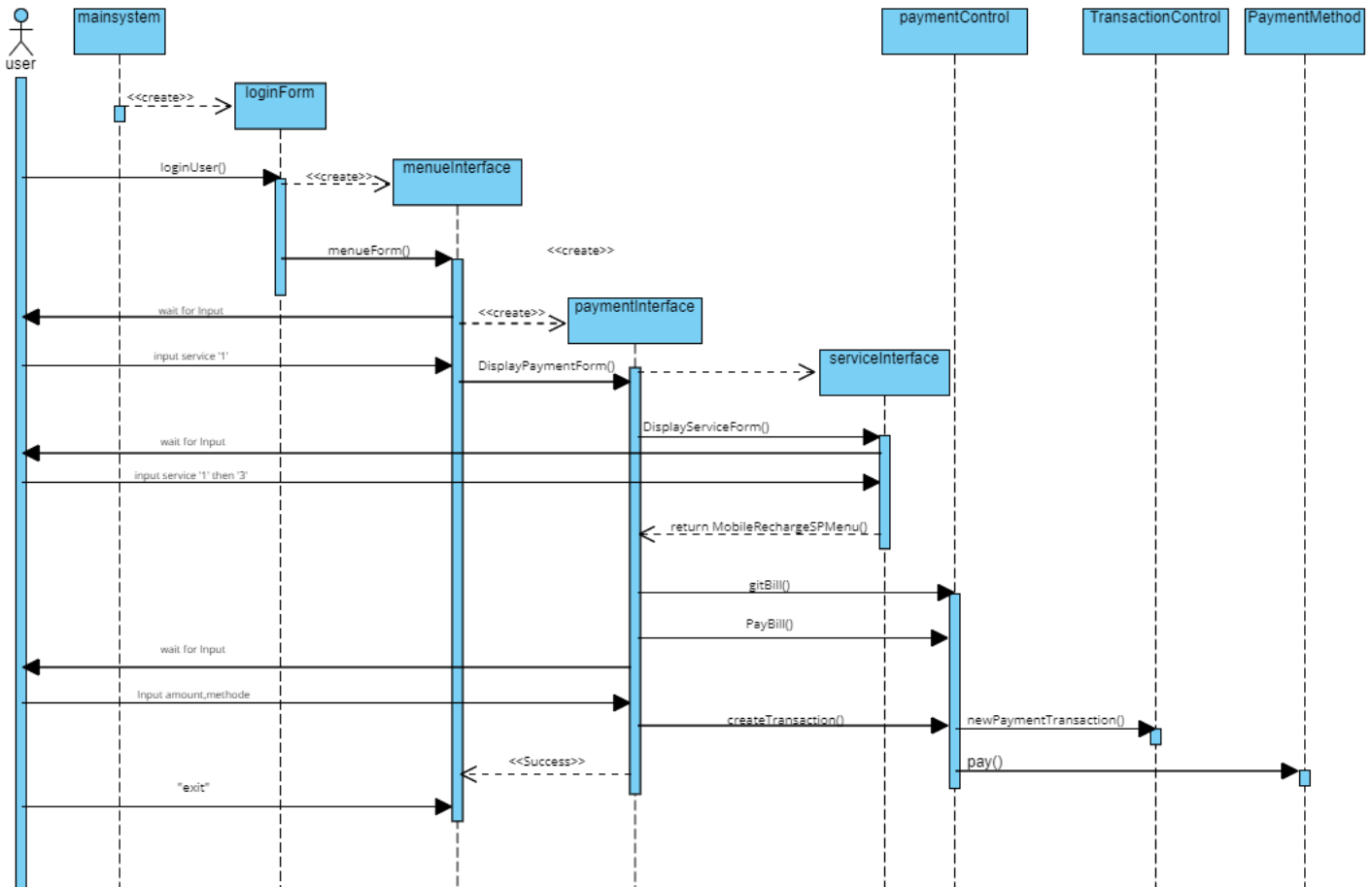
The system displays a menu to the admin including several data to choose from these are users, transactions, payment transactions, discounted services, users with overall discounts, and all the refund requests.

When the admin chooses the data he would like to view the data is displayed and the admin is returned to the main menu.

# Sequence Diagrams

## Case 1: Vodafone Recharge

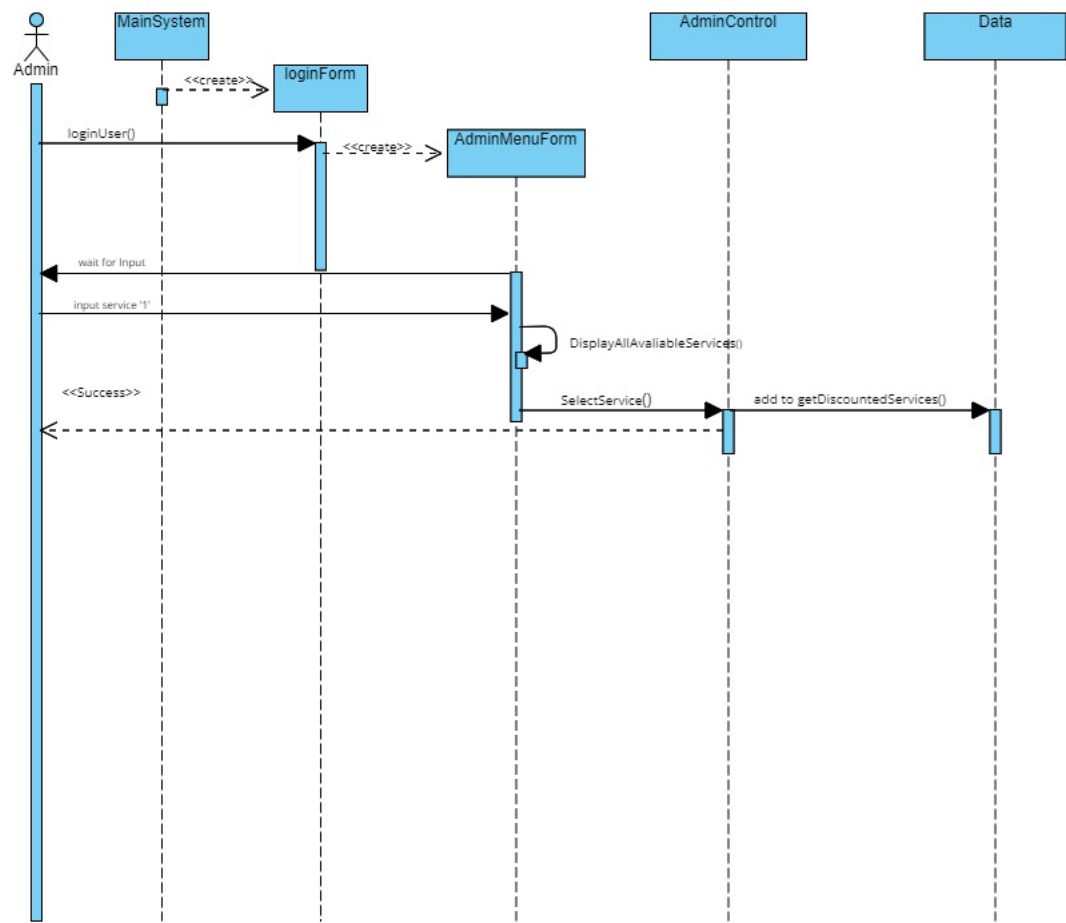
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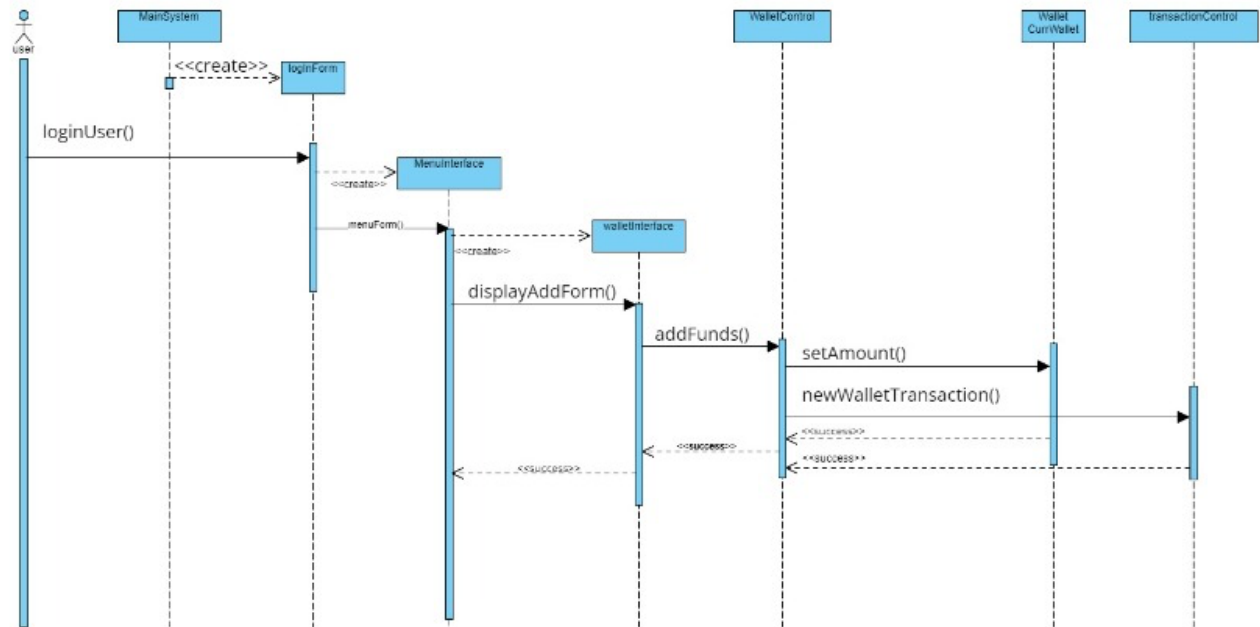
# Case 2: Add Discount

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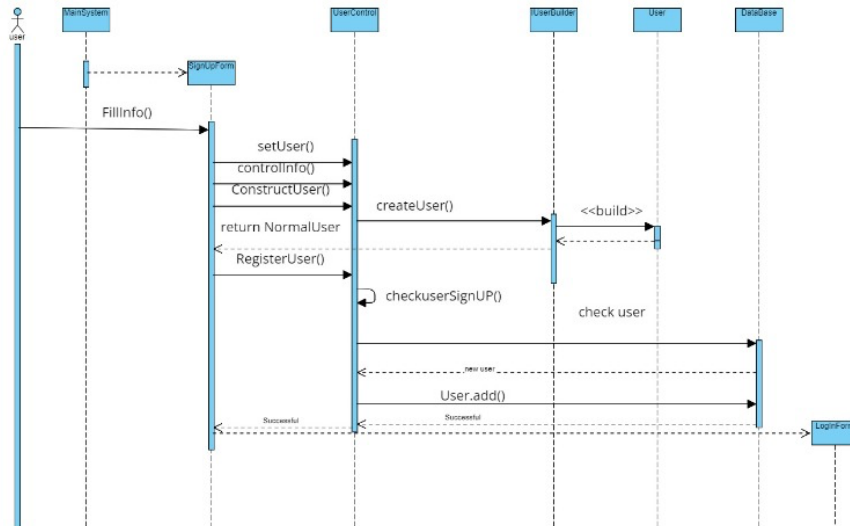
# Case 3: Add Funds

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# Case 4: Sign Up

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