

Bulk SMS Providing System (BSP)



Submitted by

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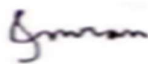
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This Project report has been submitted in fulfillment of the requirements for the Degree of
Bachelor of Science in Software Engineering

APPROVAL

This thesis titled on “**BULK SMS PROVIDING SYSTEM**”, submitted by **Afrail Hossain, 171-35-2016** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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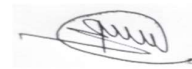
The project called "Afrail Hossain" was carried out under the supervision of Mr. Md. Mushfiquir Rahman I declare that this project is my real work for a B.Sc. degree. In Software Engineering and that not all work or any part is included at another level in this country and at any other university.



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ABSTRACT

Bulk sms providing system is a web-based application which providing a platform for sending message. User can buy sms package and send sms. This can be used in any organization or education purpose where people want to send message mobile phone. But most of the time they don't get proper platform. This platform multiple SMS can be used in schools and universities to promote classroom collaboration and to set up a visible community as a social relations system. Instructors can make practical questions with many types of questions with their students via SMS. In addition, many SMS systems provide information such as sending special announcements, news and interest information to funders, students and other related recipients.

CHAPTER 1

INTRODUCTION

1.1 Project Overview

Sending an SMS message to large groups of recipients simultaneously.

SMS messages are bulky, which is why this name, and is much cheaper than regular SMS on your phone. In addition Bulk SMS is a cheaper way to communicate in bulk than regular email, and it works much better than email marketing.

Our SMS Platform Bulk SMS module offers the highest quality of service, combined with the various features needed to run your customers' bulk SMS campaigns efficiently. No software installation required for your customers - our Bulk SMS module will be available with the web-based SMS Platform management tool.

1.2 Project Purpose

Bulk SMS enables its users to send bulk text messages nationally and internationally. This is the reason why this type of SMS delivery has become one of the best solutions for businesses that aim to reach specific audiences, locally or globally. The most common use of most SMS messages is for: Mass Advertising.

1.2.1 Background

Peoples want to start something new like e-commerce, e-marketing etc. But most of the time people don't know how to start and where to start. For a while they took the wrong kind of separation. Who can help them and give them a chance to make better or better suggestions. This program closes the gap between user and vendor.

1.2.2 Benefit & Beneficiaries

Benefits:

- Immediate impact.
- High Opening Level.
- Custom campaigns.
- Attractive Conversion Rate.
- Few Obstacles to Delivery.
- It takes a little effort on the part of the recipients.

Cost effective. Beneficiaries:

- General people (Client)
- Expert people (Counselor)

1.2.3 Goals

The Goals of Counselling Manager is very simple. This project Goals are:

- To reduce the gap between expert people with other general people.
- To provide them good platform to send message.
- To make it easy to buy sms by their wallet balance.

1.3 Stakeholders

- User
- Admin

1.4 Proposed System Model (Block Diagram)

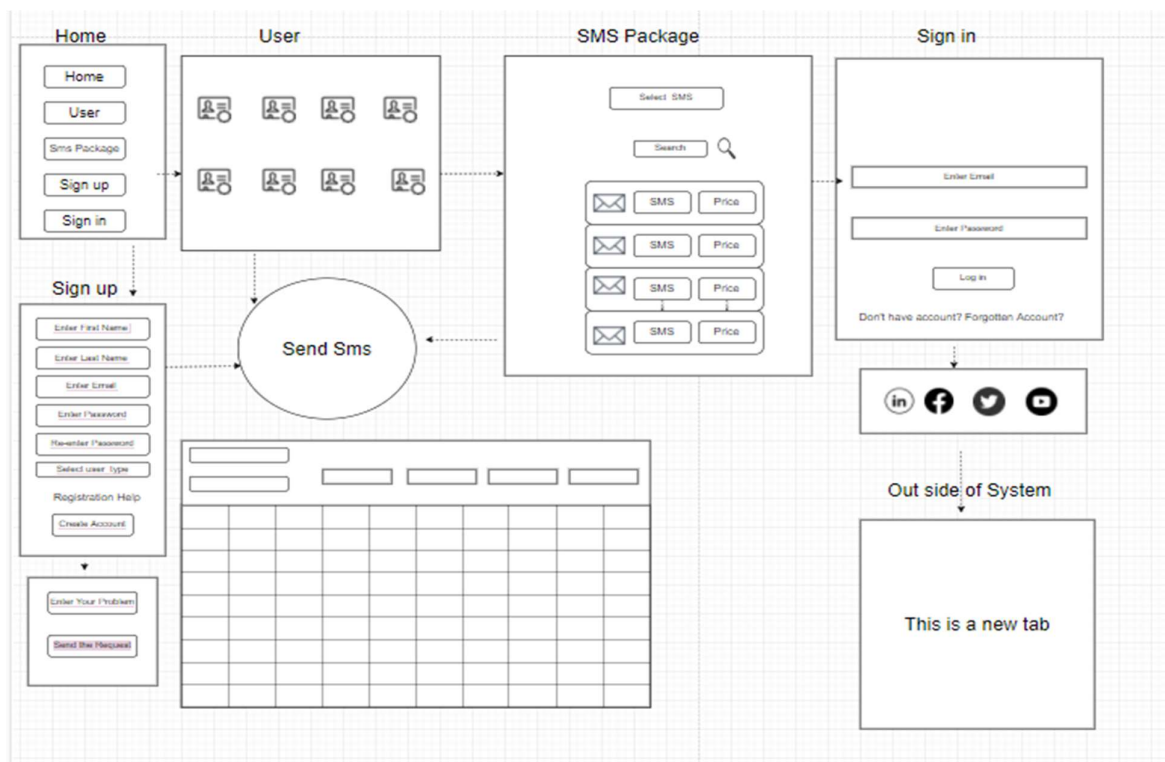


Figure 1. 1: Block Diagram

1.5 Block Diagram

1.5.1 Gant Chart

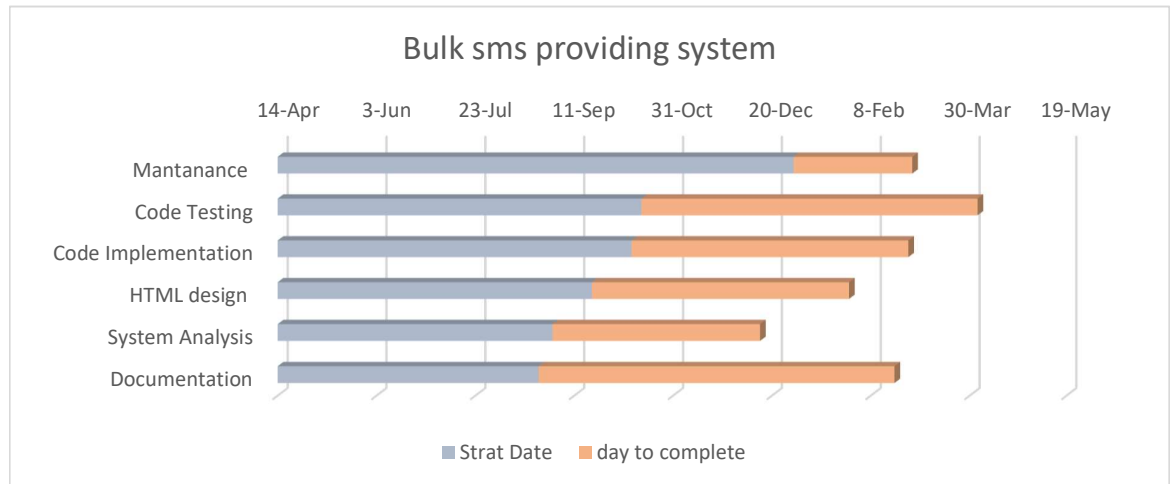


Figure 1. 2: Gantt chart

1.5.2 Release Plan / Milestone

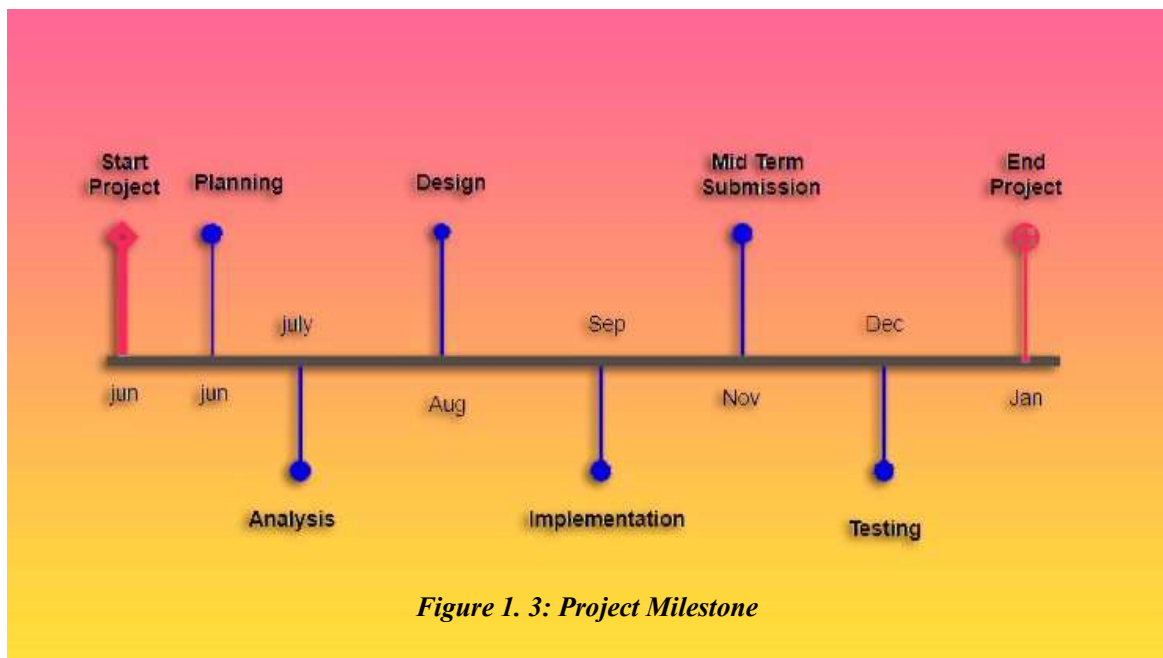


Figure 1. 3: Project Milestone

CHAPTER 2

SOFTWARE REQUIREMENT SPECIFICATION

2.1 Functional Requirements

- FR-1: User can create account as a Client.
- FR-2: Authorize User and Admin can login this system.
- FR-3: User can see all type sms packages.
- FR-4: User and Admin both are see own profile.
- FR-5: User can change password
- FR-6: User can send sms.
- FR-7: User can view all send message and phone number.
- FR-8: User can view parches sms package.
- FR-9: User can check current balance and number of sms on dashboard
- FR-10: User can buy all type sms by their wallet balance.
- FR-11: Admin can see all register user.
- FR-12: Admin can add two of sms package and determine validation time and price of sms.
- FR-13: Admin can edit all added sms package.

2.2 Non-Functional Requirements

- User should be authenticated by the System for specific features: view sms package, buy package, view profile, view parches history, send sms, and view sending history, Sign out.
- This program should have a support system where the user can get support.
- This application should have sms sending, User and Admin from Sign in to sign in.
- This system should have buy sms and send sms for verified User.
- Make this Web application usable and reduce the page number should be alternatives (popups).
- User password must be encrypted before storing it in Database

2.3 Data Requirements

- Sign in information must be user name and password for all users.
- In Sign up and recovery page new password and confirm password must be same.
- Forgotten email address must be pre-registered email.
- Forgotten account verify code must be matched with sent code to user email.

- When client send the request for an appointment then the problem should be specified

2.4 Performance Requirements

2.4.1 Speed and Latency Requirements

- Every request should not take more than 1 second.
- Message send speed as fast as possible.

2.4.2 Precision or Accuracy Requirements

- Every sms package have individual date.
- Expire date sms can't be send.

2.4.3 Capacity Requirements

- User can buy two type sms package.
- User can send only non-masking type sms.
- User can Send sms only BD number.

2.5 Dependability Requirements

2.5.1 Reliability Requirements

- User must be reliable for Send message.
- Select specific sms package type should be reliable for User.
- Verify user profile before the appointment must be reliable for all users.

2.5.2 Availability Requirements

- Sms should be available for every user.
- Parches valid sms should be available for send.

2.5.3 Robustness or Fault-Tolerance Requirements

- If the package has any mistake then admin can delete that.
- Admin can disable any user account.

2.5.4 Safety-Critical Requirements

- Before buy sms, user can see wallet balance.
- Admin will have the power to make view register user information.

2.6 Maintainability and Supportability Requirements

2.6.1 Maintenance Requirements

- Primarily the Admin will have the responsibility for maintaining the system.
- Secondary Admin will maintain the server if it is up or down.

2.6.2 Supportability Requirements

- This system will be support any device such as android, windows, Mac, Linux etc.
- The profile link should be valid for the system.

2.6.3 Adaptability Requirements

- It should maintain several users at the same time even at the same time many user can hit on the server.
- It has ability to show the user details for every user.

2.6.4 Scalability or Extensibility Requirements

- As If any user forgets their personal account, they can get back their account with the help of google email service.
- User can change their password any time.

2.7 Security Requirements

2.7.1 Access Requirements

- User can send the SMS to the other customer
- Only admin can manage the package.
- User can buy SMS package.
- Admin can only manage user.

2.7.2 Integrity Requirements

- Password should be encrypted & protected.
- Email should be valid otherwise user cannot retrieve forgotten account.

2.7.3 Privacy Requirements

- One registered user cannot see another user's dashboard.
- Non-registered user not get any service and offer.
- Non-registered user can't buy any package.
- Same password must be saved in deferent form to Database.

2.8 Usability and Human-Interaction Requirements

2.8.1 Ease of Use Requirements

- If User want to get the package by their own way then they will can
- If user want to send multiple SMS at a same time then they will can.

2.8.2 Personalization and Internationalization Requirements

- Admin can personalize their information for clients.
- Any person in the world will have the ability to send the sms to other user

2.8.3 Understandability and Politeness Requirements

- User will have registration help option to understand data policy.

2.8.4 Accessibility Requirements

- Every feature will be same for every users.
- User can check their valid service, payment history and sms history.

2.8.5 User Documentation Requirements

- User will have same manual for use.
- User can give feedback to the system.

2.8.6 Training Requirements

- A video will be provided for the user.
- A user-manual will be provided for user for understanding the system.

2.9 Look and Feel Requirements

2.9.1 Style Requirements

- Style should be decent and standard
- Color selection must be eye satisfied and peace with freshness.
- Font size and format will be user satisfaction able.

2.10 Operational and Environmental Requirements

2.10.1 Expected Physical Environment

- Android 5v+ will better perform.
- Windows 7,8,10 will perform better.
- Mac 8, 9, 10-14 will be performed easily
- Linux 10 or + will not have any excuse.

2.10.2 Requirements for Interfacing with Adjacent Systems

- Desktop Computer and laptop will looks good for the system.
- Web site must have responsibility feature.

2.10.3 Projectization Requirements

- For the first time use 50 user need to test where all people will be user

2.10.4 Release Requirements

- For the first release any specific organization, or client or user will be hired.
- Second release will be start with two or more organization or user involvedness.

CHAPTER 3

SYSTEM ANALYSIS

3.1 Use Case Diagram

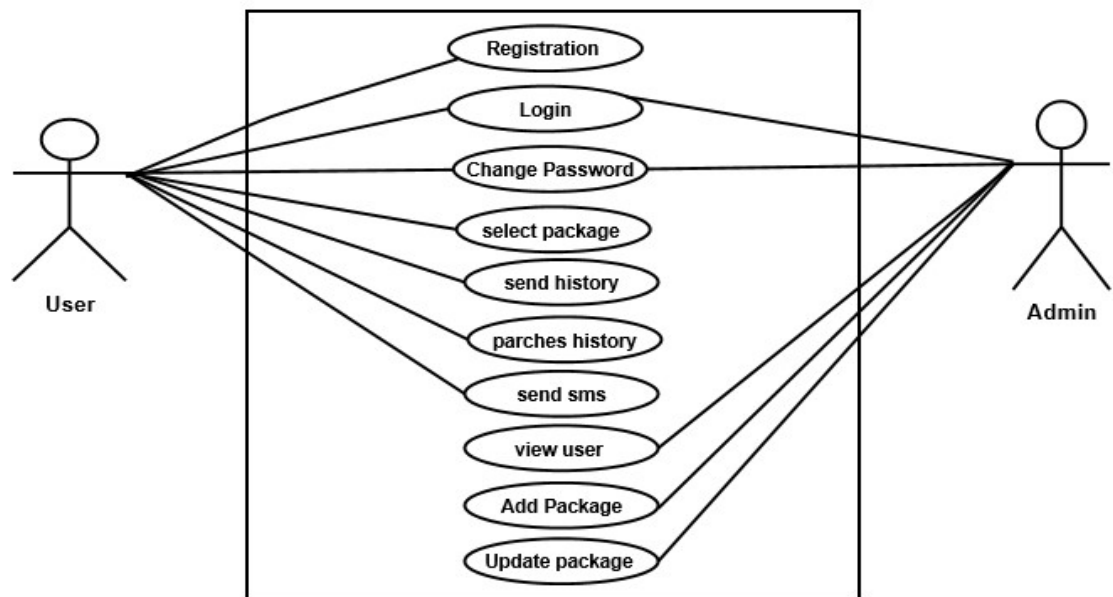


Figure 3. 1: Use Case Diagram

3.2 Identifying Use Cases

- UC-1: Registration
- UC-2: Login
- UC-3: Change Password
- UC-4: Select Package
- UC-5: Send History
- UC-6: Parches History
- UC-7: Send SMS
- UC-8: View User
- UC-9: Add Package
- UC-10: Update Package

Use Case Id	UC-1
Use Case name	Registration
Scenario	User can do Registration to create a new account
Triggering event	If any user want to create a new account and clicked Sign up button.
Brief description	User can create an account, Where it should be provided some basic information about user : First Name, Last Name, Email, Password and User Name.
Actors	User
Extending use case	None
Included use case	None
Stakeholders	User, Admin
Pre-Condition	User must have a new email address to create a new account.
Basic path	1. Click on “Sign up” link on Login page 2. Get Registration page 3. Enter the First Name 4. Enter the Last Name 5. Enter the Email 6. Enter the Password 7. Enter User Name 8. Click on Create account button
Alternative path	None
Exceptional path	None
Post-Condition	All the input values must be validate and User Name and Email should be unique.

Table 3. 1: Use case diagram for registration

Use Case Id	UC-2
Use Case name	Login
Scenario	User can Log into the system if they have account.
Triggering event	If any user want to Log in to the System and clicked Sign in button. Or want to use any feature that required Authentication then this page will be appear.
Brief description	User can click on Sign in button to log in to the system. Then Log in page will be appear. It will ask for User Name and Password, click on Log in button. It will also have some extending features: Don't have account? , Forgotten Account?
Actors	User, Admin
Extending use case	UC-4: Retrieve Password (Forgotten Account?) UC-2: Registration (Don't have account?)
Included use case	None
Stakeholders	User, Admin
Pre-Condition	User must have an account and remember the password for Log in to the System.
Basic path	1. Click on "Sign in" button 2. Get Sign in page 3. Enter the User Name 4. Enter the Password 5. Click on Log in button
Alternative path	None
Exceptional path	None
Post-Condition	All the inputs must be matched with the account details.

Table 3. 2: Use case diagram for login

Use Case Id	UC-3
Use Case name	Change Password
Scenario	If the user and admin want change their account password then they can Change Password
Triggering event	If any user input valid password format then user need to click the “change password” Button link
Brief description	User may forget his / her password then they will have a option by what they will provide their email and send the code that code will be one time code that will be use to verify their account and after verified the account user can enter a new password and re-enter the same password and confirm it. That new password will be saved in to the system.
Actors	User, Admin
Extending use case	None
Included use case	None
Stakeholders	User, Admin
Pre-Condition	User must have pre-registered and should remember the old passwords.
Basic path	1. Click on “Change password” on profile page 2. Enter the old password 3. Enter the new password 4. Click on change password
Alternative path	None
Exceptional path	None
Post-Condition	New password must be matched with password format

Table 3. 3: Use case diagram for change password

Use Case Id	UC-4
Use Case name	Select package
Scenario	User can view all type of sms package. If user want to buy any package then they can do it by clicking on the package link
Triggering event	If user want to buy any package then need to click on the package link.
Brief description	Before buy any type of sms package user must be valid or registered. Only registered user able to buy any package and one thing need to remember before buy any package need to check the user balance account.
Actors	User
Extending use case	None
Included use case	None
Stakeholders	User
Pre-Condition	None
Basic path	1. Click on “SMS Package” button on User Home page 2. Get validation message is user registered or not? 3. Then check the account if have sufficient balance then user able to buy SMS package 4. After buy SMS package successfully page automatically redirect on dashboard page. 5. Then user able to send Bulk SMS within validation days.
Alternative path	None
Exceptional path	None
Post-Condition	None

Table 3. 4: Use case diagram for Select package

Use Case Id	UC-5
Use Case name	Send History
Scenario	User can View their sms history and package buy history.
Triggering event	If any user click on “SMS history” button
Brief description	User can view profile as well as can able to see their sms history. Even they can check every day message history as a registered user
Actors	User
Extending use case	None
Included use case	None
Stakeholders	User
Pre-Condition	User must be registered user
Basic path	1. Click on “SMS history” button 2. Get the sms history page
Alternative path	None
Exceptional path	None
Post-Condition	None

Table 3. 5: Use case diagram for send history

Use Case Id	UC-6
Use Case name	Purchase History
Scenario	User only can able to check their Purchase History if user want. User can everyday check their sms Purchase History how many package they have buy and their remaining time or date
Triggering event	If user clicks on “Purchase History” button
Brief description	Before see the Purchase History page user need to login into the system. Then need to click on the Purchase History button. After click on the Purchase History button user will be able to see their Purchase History in details.
Actors	User
Extending use case	None
Included use case	None
Stakeholders	User
Pre-Condition	User must have valid account or a registered user.
Basic path	1. Click on “Purchase History” on user profile. 2. After click on button a page will appear within a millisecond. 3. After that user will be able to see their Purchase History.
Alternative path	None
Exceptional path	None
Post-Condition	None

Table 3. 6: Use case diagram for purchase history

Use Case Id	UC-7
Use Case name	Send sms
Scenario	User are Send message any Bangladesh number.
Triggering event	User should be Click on “Send sms” button.
Brief description	If any register user send sms before check their sms balance. User can send Bangladeshi mobile number and before send message no need add country code system add this country code.
Actors	User
Extending use case	None
Included use case	None
Stakeholders	User
Pre-Condition	None
Basic path	1. Click on “Send sms ” button in User menu or Home page 2. Get the page Sms send 3. Put the message and mobile phone number 4. Click on “send” button
Alternative path	None
Exceptional path	None
Post-Condition	None

Table 3. 7: Use case diagram for send SMS

Use Case Id	UC-8
Use Case name	View user
Scenario	This System will have all register and user information can view admin.
Triggering event	Admin Click on “view user” button.
Brief description	When User are registration in this system keep all data save in data base. If admin want to view any user formation easily can see all register user
Actors	Admin
Extending use case	None
Included use case	None
Stakeholders	Admin
Pre-Condition	Admin must have an account And have permission according to user role should be “ROLE_ADMIN”.
Basic path	1. Click on “view user” 2. User information
Alternative path	None
Exceptional path	None
Post-Condition	None

Table 3. 8: Use case diagram for view user

Use Case Id	UC-9
Use Case name	Add Package
Scenario	Admin can add two type of sms package masking and non-masking
Triggering event	If Admin want to add sms package to a Counselor and clicked Add sms button.
Brief description	In this system there will be two types of sms and can be purchased by any user who owns his or her wallet balance. Admin could be add this type of sms package. Sms package should be sms name, sms type masking or non-masking, validation time, number of sms and sms price.
Actors	Admin
Extending use case	None
Included use case	None
Stakeholders	Admin
Pre-Condition	Admin must have role USER_ADMIN.
Basic path	1. Click on “Add sms” button on insert sms package 2. Put the sms details. 3. Click save button.
Alternative path	None
Exceptional path	None
Post-Condition	None

Table 3. 9: Use case diagram for add package

Use Case Id	UC-10
Use Case name	Update sms package
Scenario	Admin can easily update added sms package he/she can change any time like sms name, sms type, and price validation time
Triggering event	If Admin want to update sms package clicked “update sms package” button on Client Dashboard.
Brief description	All type of sms package are edit can Admin. When need will be any change sms package like sms name, type, validation time, price and number of sms Admin can easily edit all of this filed.
Actors	Admin
Extending use case	None
Included use case	None
Stakeholders	Admin
Pre-Condition	It must be save in data base
Basic path	1. Click on “edit” icon on add sms page. 2. Edit sms package which are need change. 3. Click on “save” button.
Alternative path	None
Exceptional path	None
Post-Condition	None

Table 3. 10: Use case for update SMS package

3.3 Further Analysis (MVC Architecture)

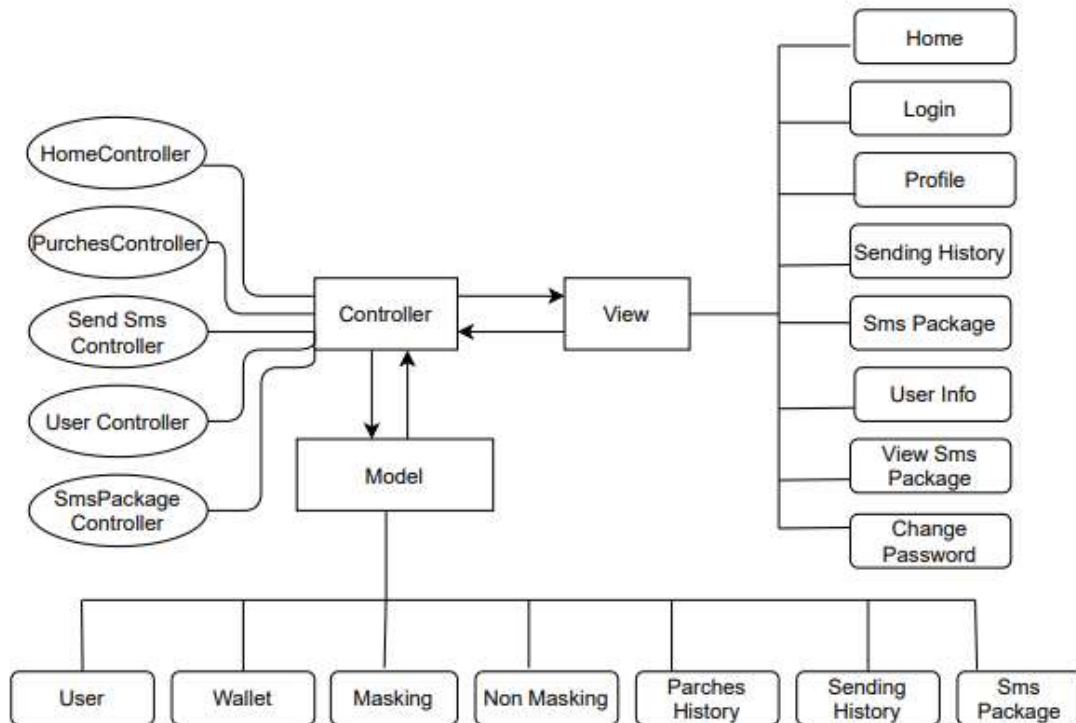


Figure 3. 2: MVC Architecture

3.4 Activity Diagram

UC-1: Registration (Actors: Admin, User)

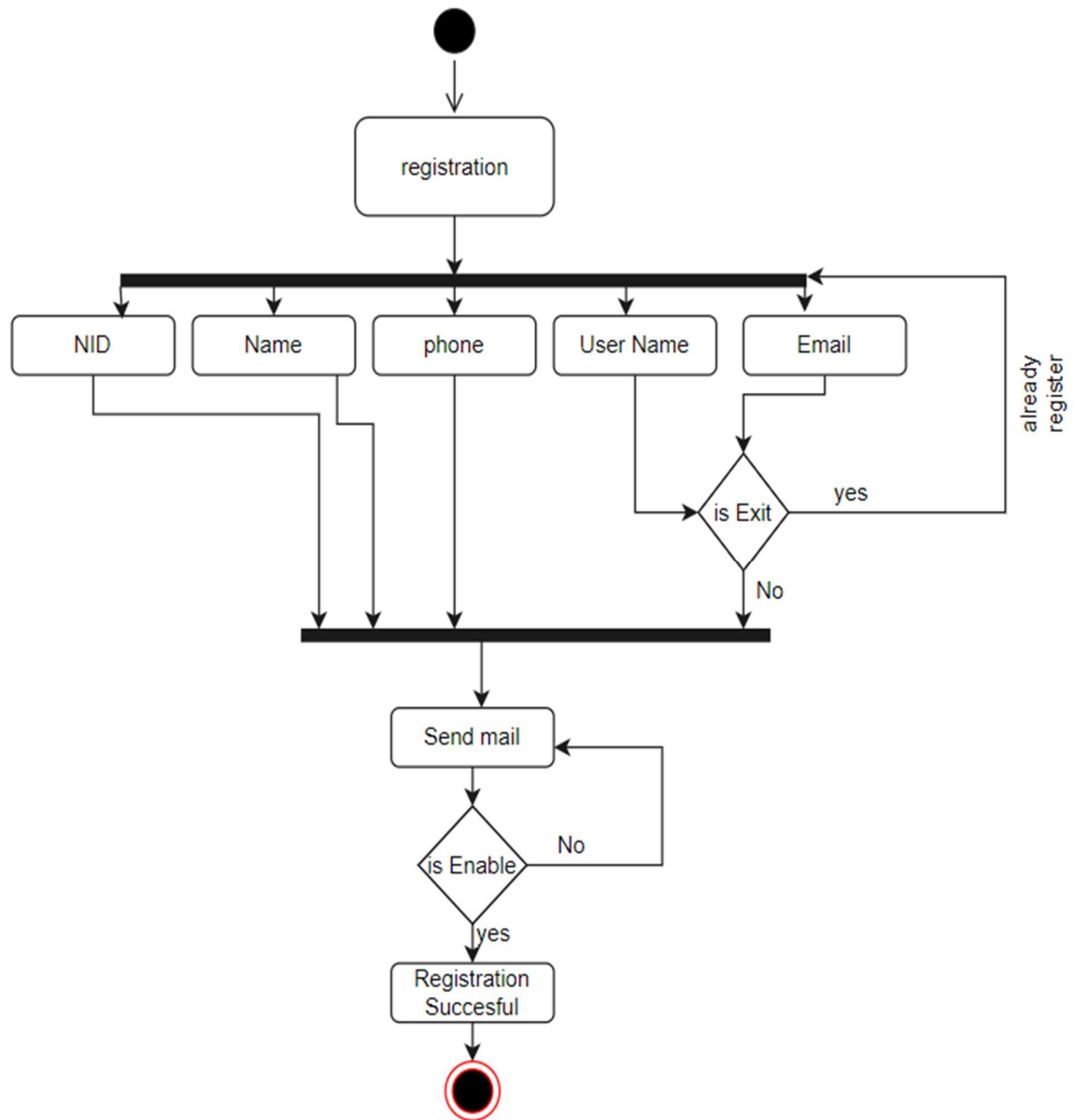


Figure 3. 3: Activity Diagram for Registration

UC-2: Login (Actors: Admin, User)

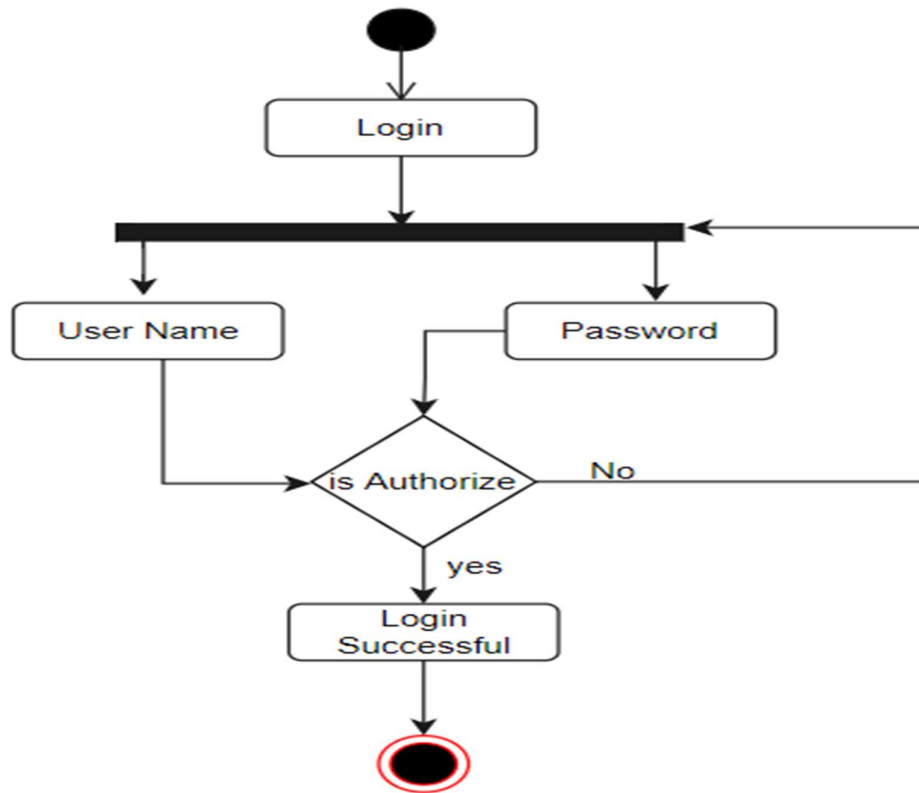


Figure 3. 4: Activity Diagram for Login

UC-3: Change Password (Actors: Admin, User)

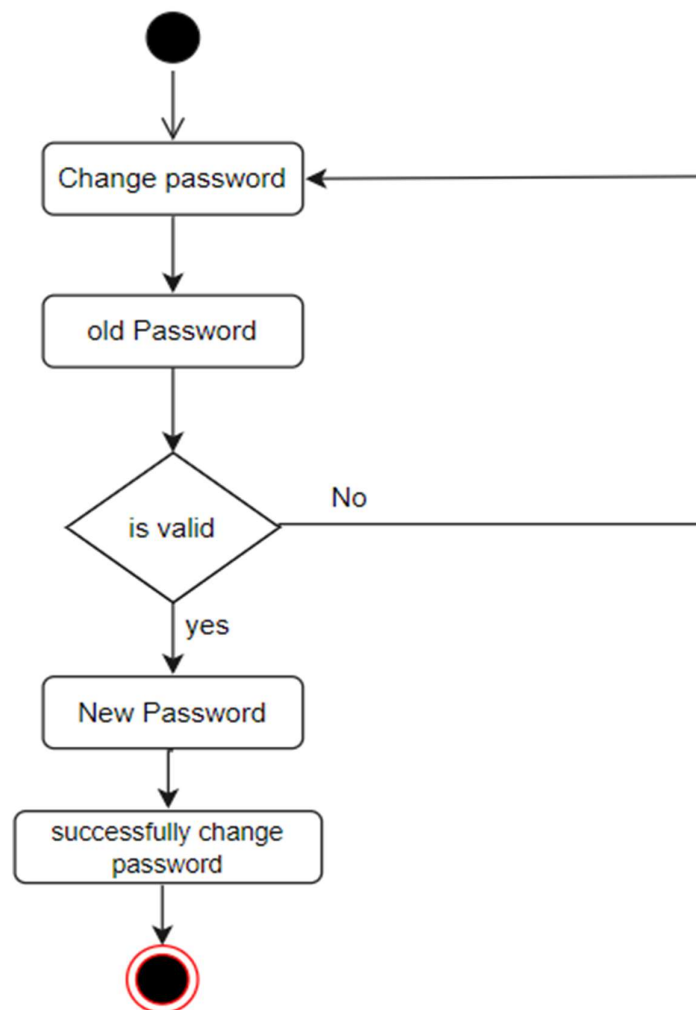


Figure 3. 5: Activity Diagram for Change Password

UC-4: Select Package (Actors: User)

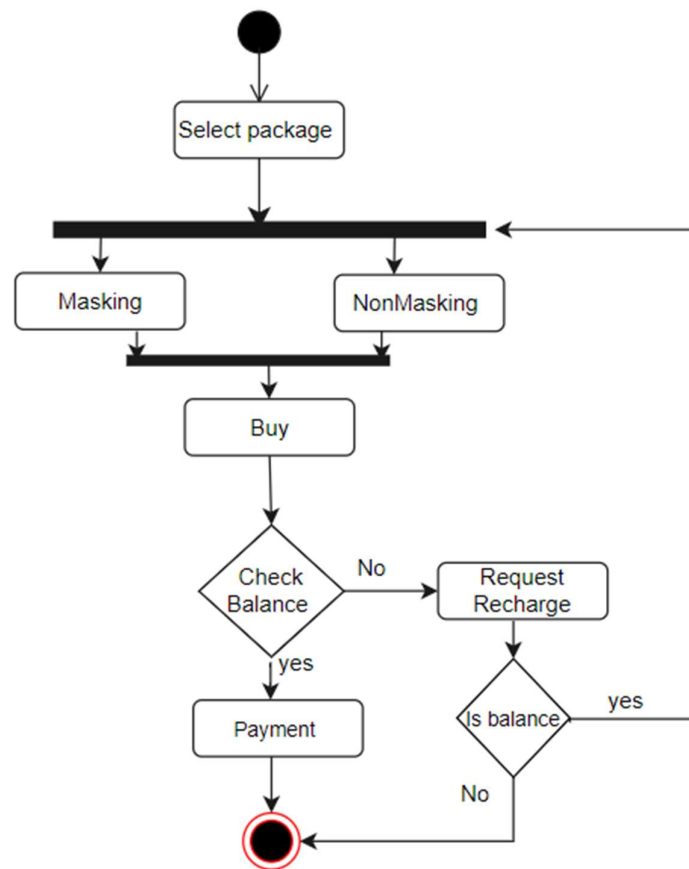


Figure 3. 6: Activity Diagram for Select Package

UC-5: Send History (Actors: User)

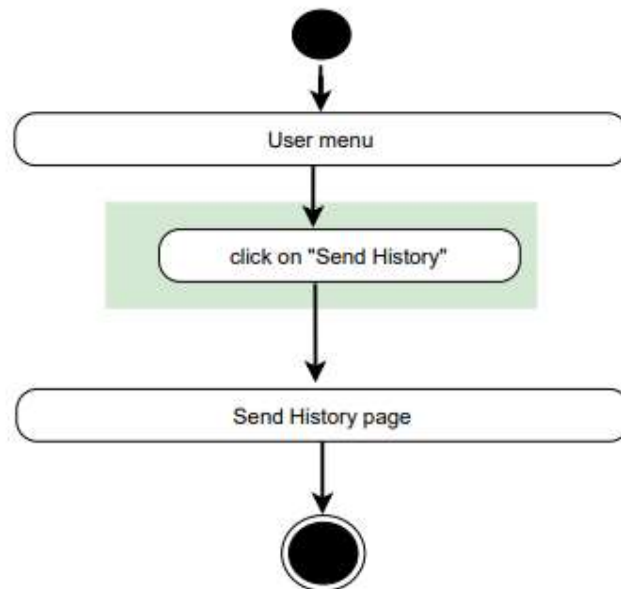


Figure 3. 7: Activity Diagram for Send History

UC-6: Parches History (Actors: User)

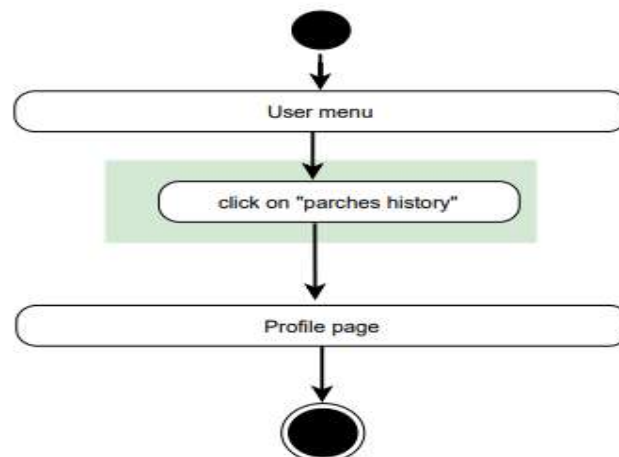


Figure 3. 8: Activity Diagram for Parches History

UC-7: Send SMS (Actors: User)

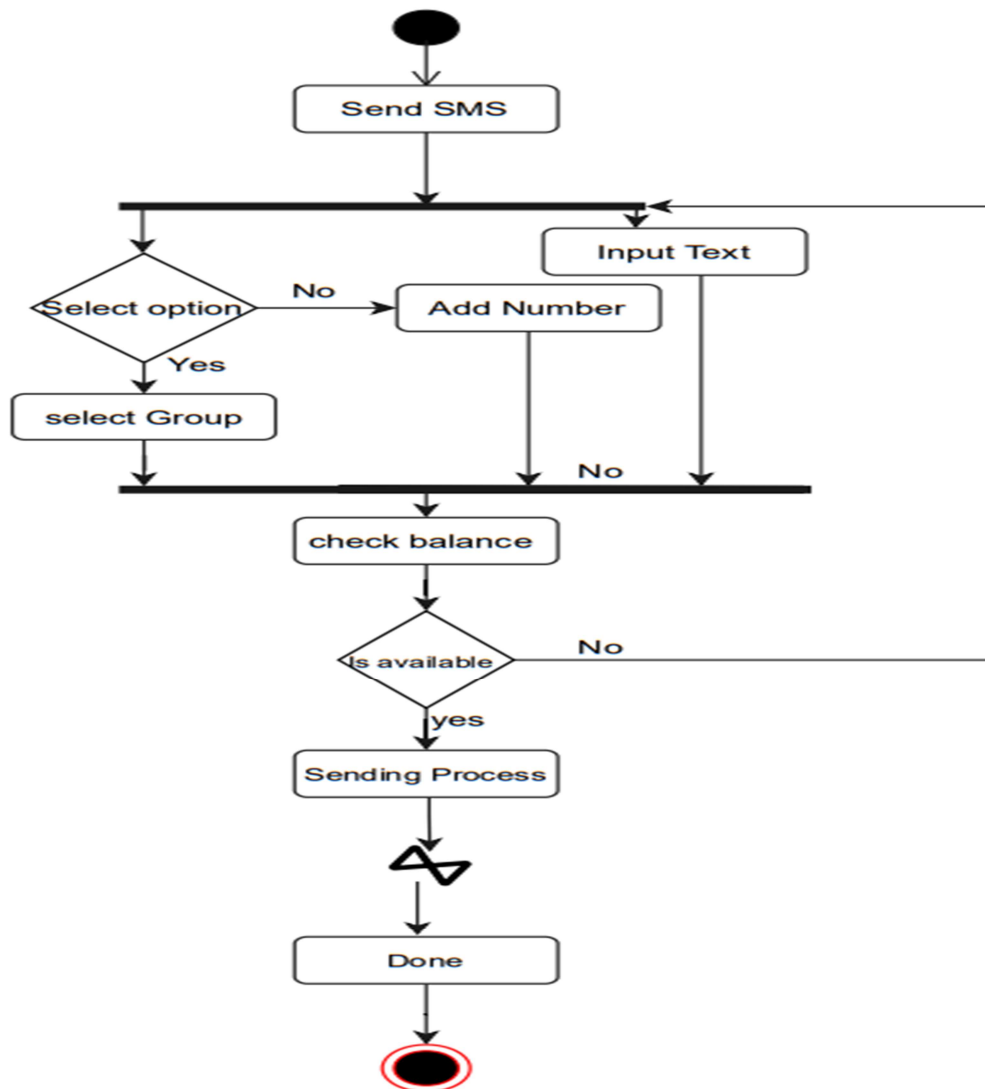


Figure 3. 9: Activity Diagram for Send SMS

UC-8: View User (Actors: Admin)

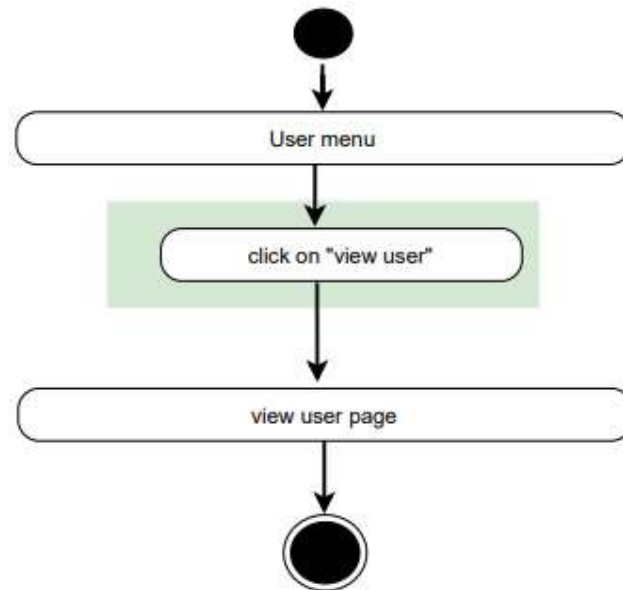


Figure 3. 10 Activity Diagram for View User

UC-9: Add Package (Actors: Admin)

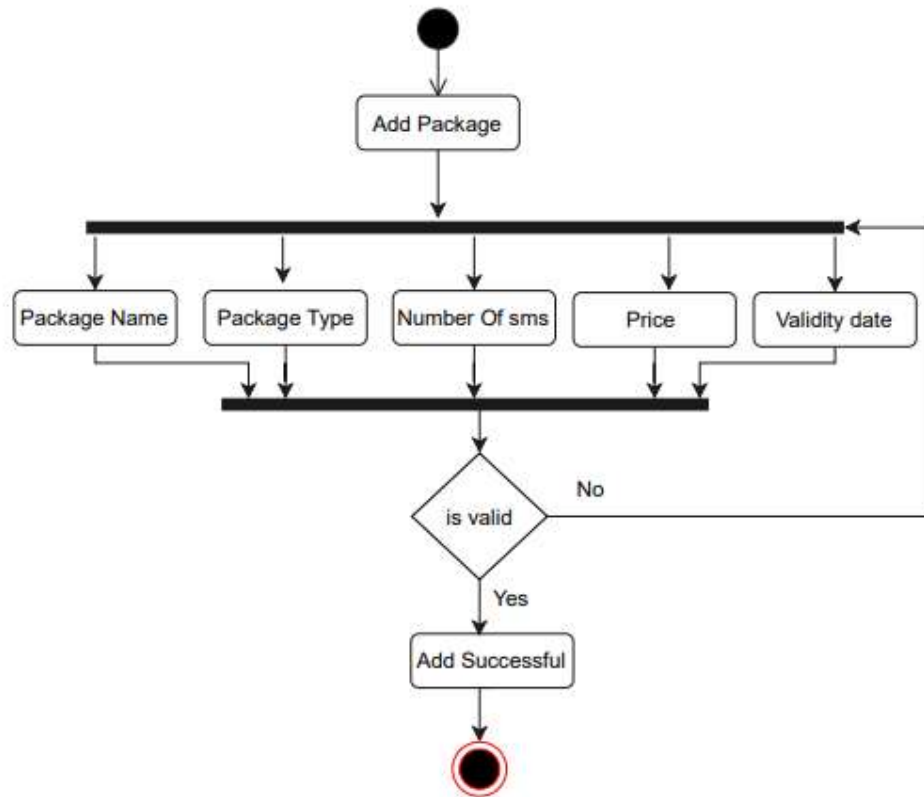


Figure 3. 11: Activity Diagram for Add Package

UC-10: Update Package (Actors: Admin)

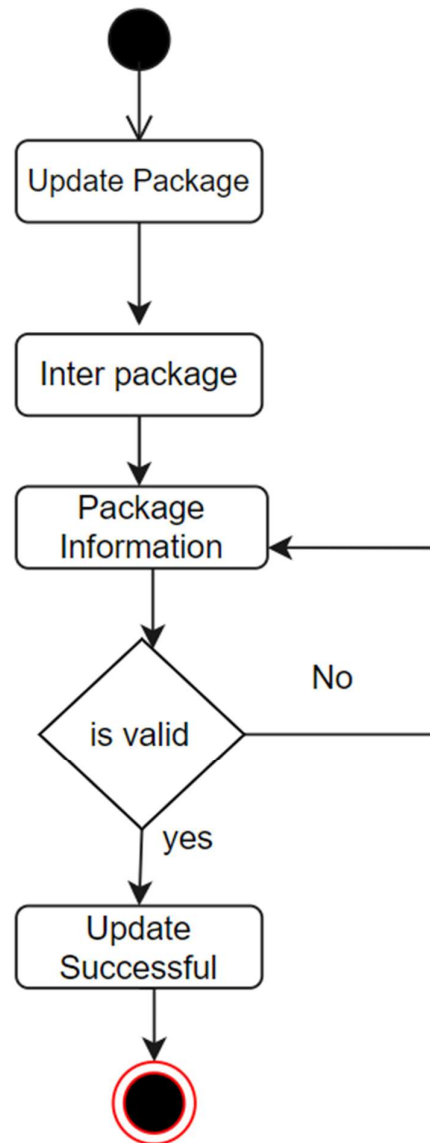


Figure 3. 12: Activity Diagram for Update Package

3.5 MVC Analysis

Models	Views (Pop Up)	Controllers
User	Home Registration	HomeController
Wallet	Login	ParchesController
Masking	Profile	SendSmsController
NonMasking	SendingHistory	SmsPackageController
ParchesHistory	Sms package	UserController
SendingHistory	UserInfo	
SmsPackage	ViewSmsPackage	
	ChangePassword	

Table 3. 11: MVC Analysis

3.6 OOP Analysis

Model Classes	Controller Classes	Supporting Classes
User	HomeController	UserService
Wallet	ParchesController	ParchesService
Masking NonMasking	SendSmsController	WalletService
ParchesHistory	SmsPackageController	SendingHistoryService
SendingHistory	UserController	UserSecurotyService
SmsPackage		SendSmsService

Table 3. 12: OOP Analysis

3.7 Class Responsibility Collaboration Cards (for each analysis)

Home_Controller	
Responsibilities	Collaborators
It will be able to accept the user registration	Home_Controller
It will be able to search by user name which user are already registration	Home_Controller
It will be able to search by email which user are already registration	Home_Controller
It will be able to login authorize user	Home_Controller
Show sms balance authorize user	Home_Controller
Show wallet balance authorize user	Home_Controller

Table 3. 13:Home_Controller

User_Controller	
Responsibilities	Collaborators
Allow to create necessary object of classes	
Sending the request to view profile.	User_Controller
Assign session value authorize user	
Profile update request	User_Controller
Request edit information	
Update user information	User_Controller, User_Model,
Password change request	User_Model
Keep old password then new put new password	User_Model, User_Model
Message sending history request	User_Model, Parches_History_Model

Table 3. 14 User_Controller

SmsPackage_Controller	
Responsibilities	Collaborators
Insert sms package request	SmsPackage_Controller
Keep it all information for add sms package	SmsPackage_Controller, SmsPackage_Model
View all type view page	SmsPackage_Controller
Rendering the Search view page	SmsPackage_Controller, SmsPackage_Model
Edit for sms package request	SmsPackage_Controller
Keep the update information	Counselling_Controller, SmsPackage_Model
Sms package delete request	SmsPackage_Controller
View registered user	SmsPackage_Controller, User_Model

Table 3. 15: SmsPackage_Controller

Parches_Controller	
Responsibilities	Collaborators
Getting all type of sms package	Parches_Controller,
Buy sms request	
Check available balance	User_Model, Parches_Controller, Wallet_Model
Pay amount For Buy sms package	Parches_Controller, Wallet_Model

Table 3. 16: Parches_Controller

Sendsms_Controller	
Responsibilities	Collaborators
Send message request	Sendsms_Controller,
Check user sms package, Validation date etc.	Sendsms_Controller, Masking_Model, NonMasking_Model, SmsPackage

Table 3. 17: Sendsms_Controller

3.8 System Sequence Diagram (for each use case)

UC-1: Registration

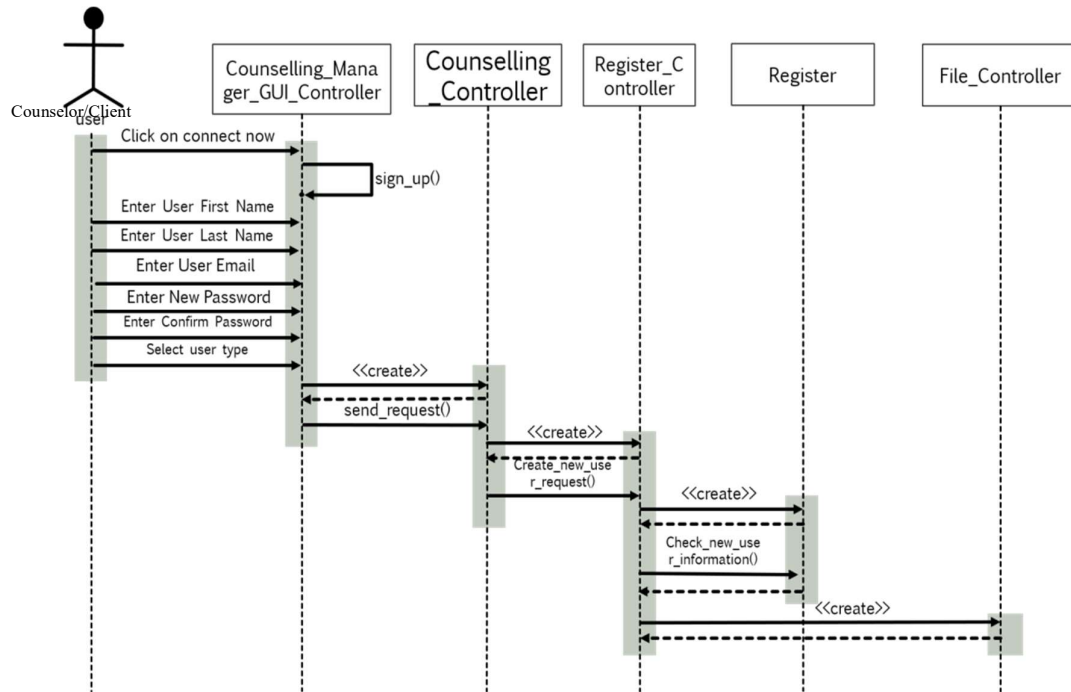


Figure 3. 13: Sequence Diagram for Registration

UC-2: Login

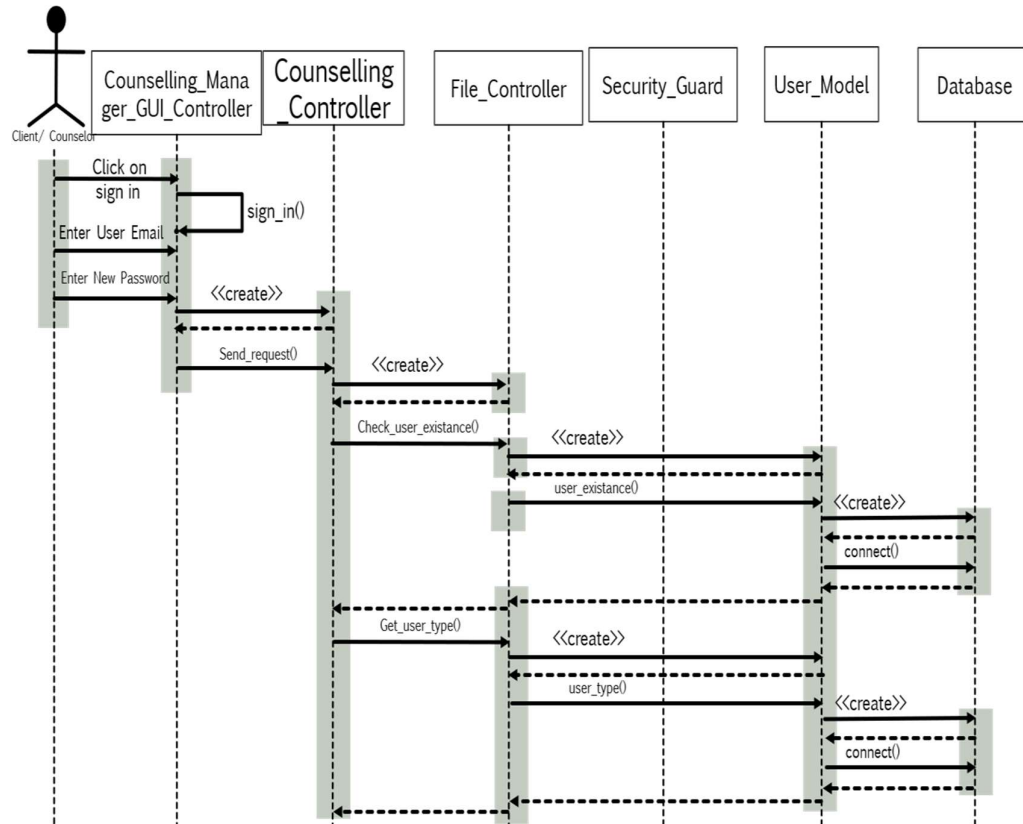


Figure 3. 14: Sequence Diagram for Login

UC-3: Change Password

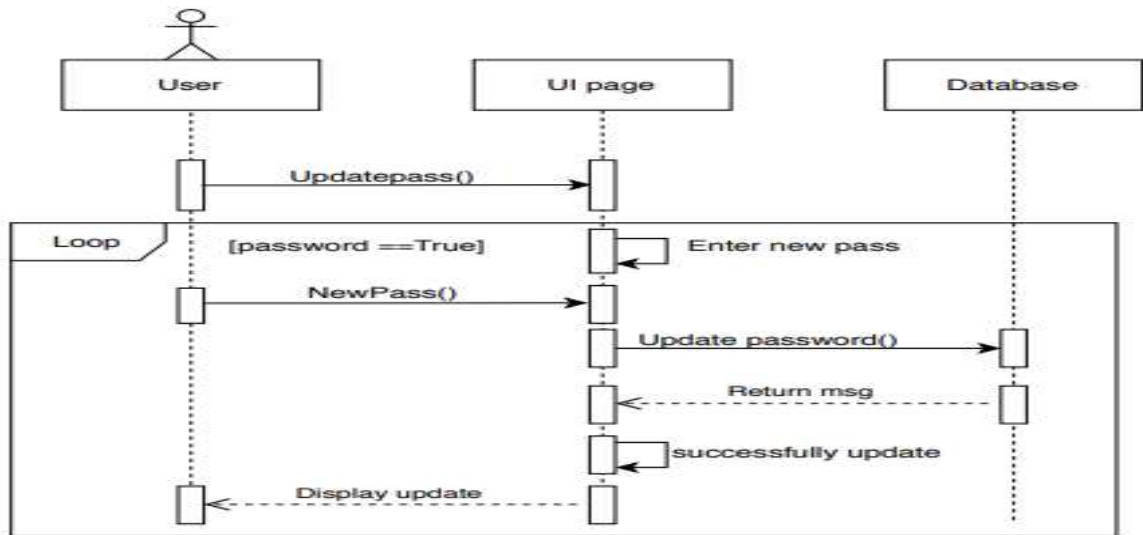


Figure 3. 15: Sequence Diagram for Change password

UC-4: Select Package

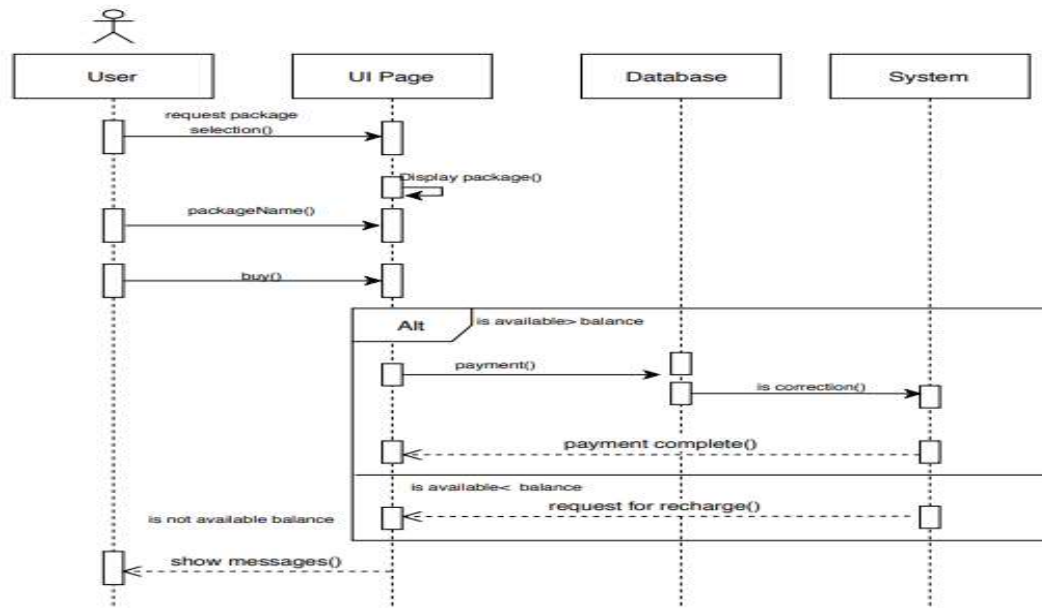


Figure 3. 16: Sequence Diagram for Select Package

UC-5: Sent History

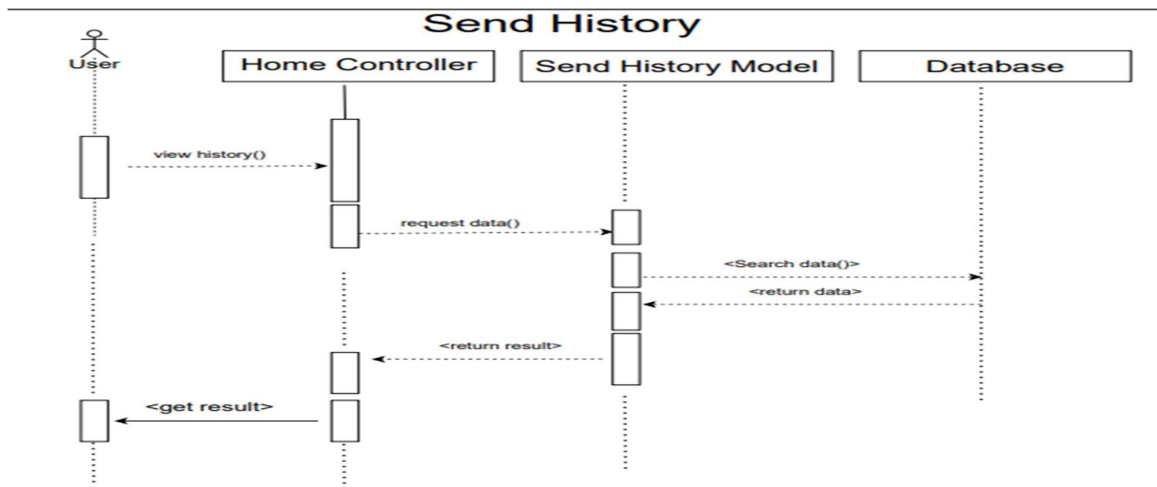


Figure 3. 17: Sequence Diagram for Send History

UC-6: Purchase History

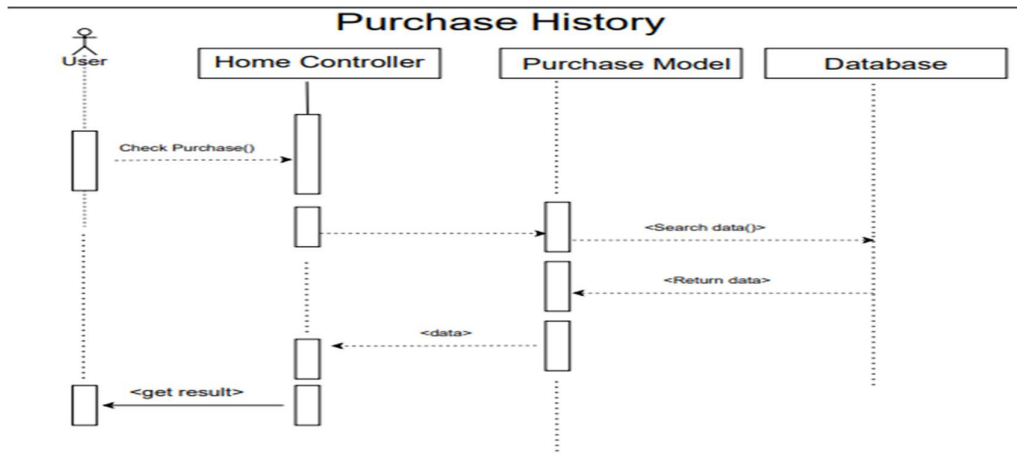


Figure 3. 18: Sequence Diagram for Purchase History

UC-7: Send SMS

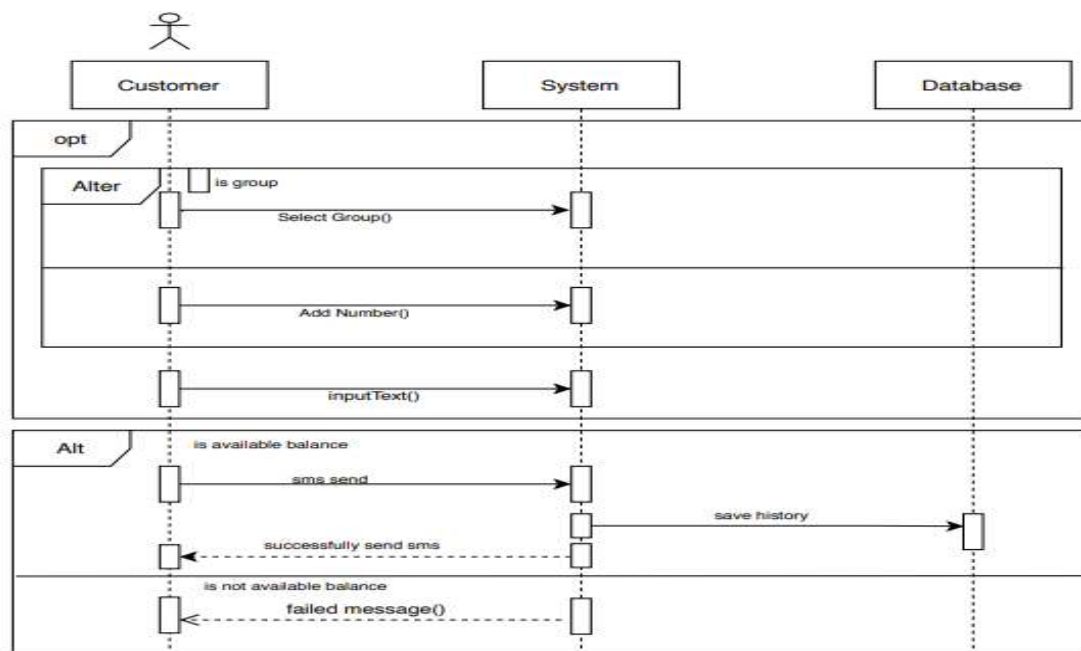


Figure 3. 19: Sequence Diagram for Send sms

UC-8: Add Package

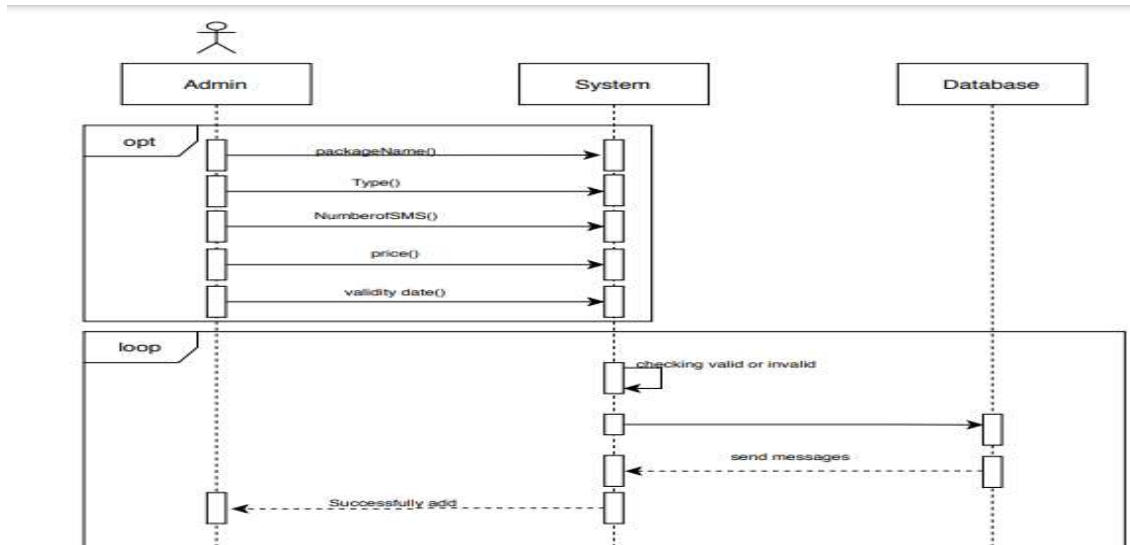


Figure 3. 20: Sequence Diagram for Add Package

UC-9: Update Package

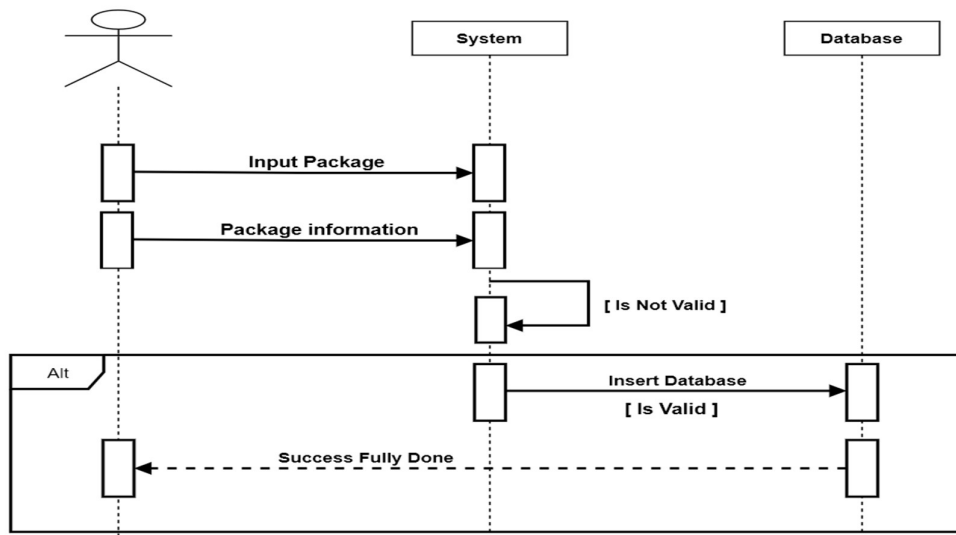


Figure 3. 21: Sequence Diagram for Update Package

UC: View User

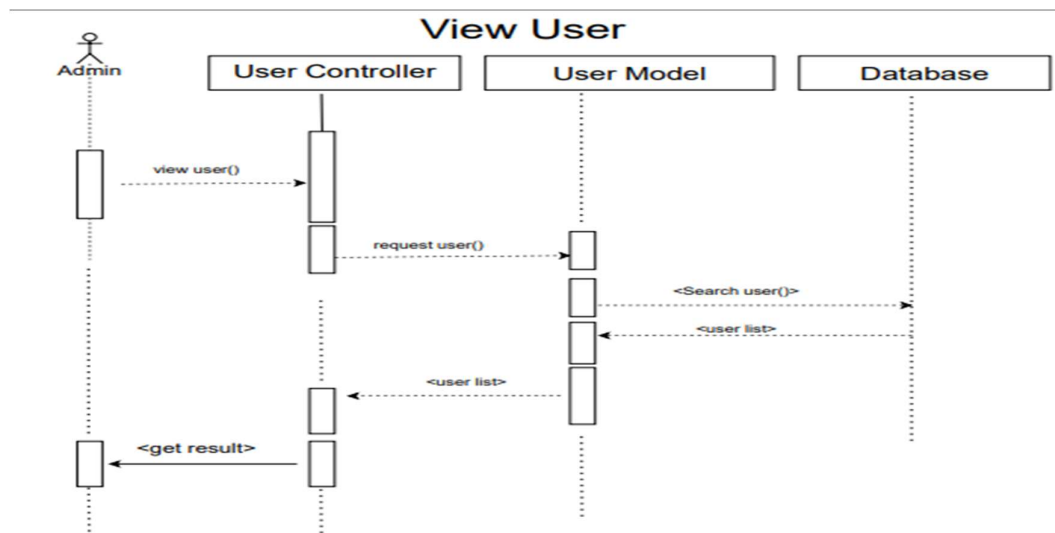


Figure 3. 22: Sequence Diagram for View User

CHAPTER 4

SYSTEM DESIGN SPECIFICATION

4.1 Entity Relationship Diagram

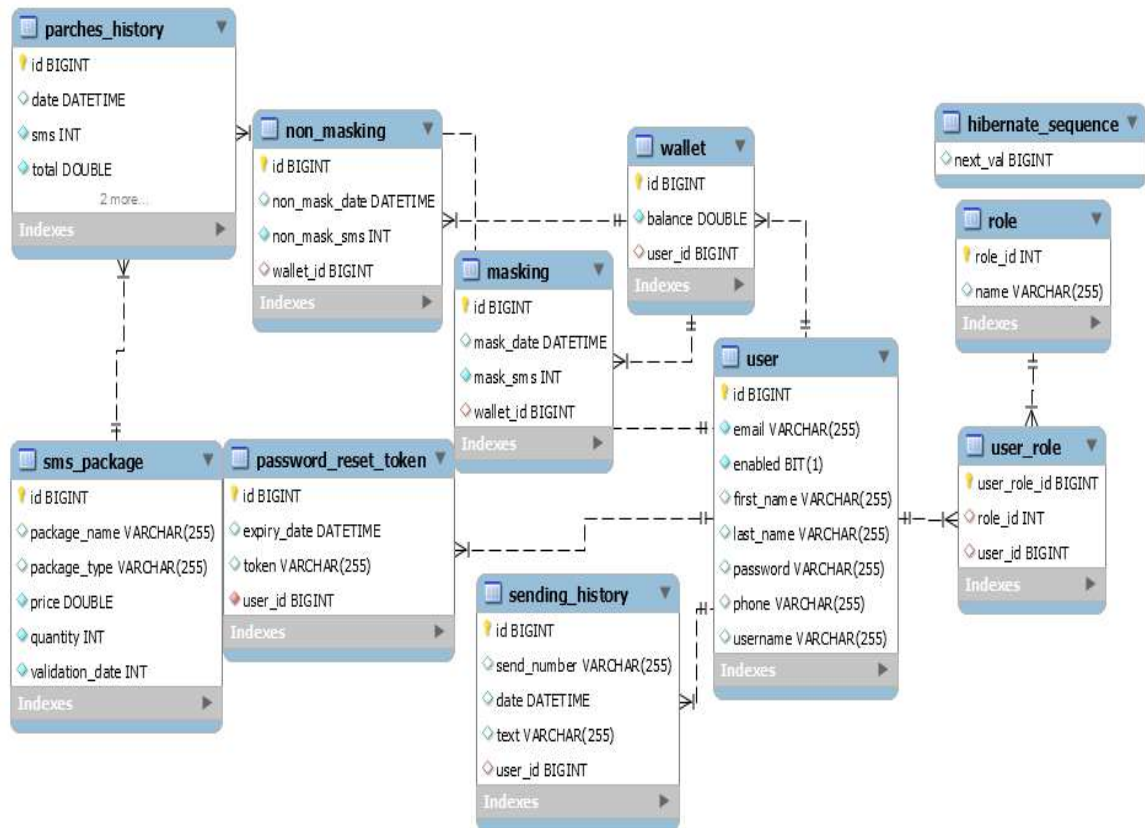


Figure 4. 1: Entity Relationship Diagram

4.2 Class Diagram

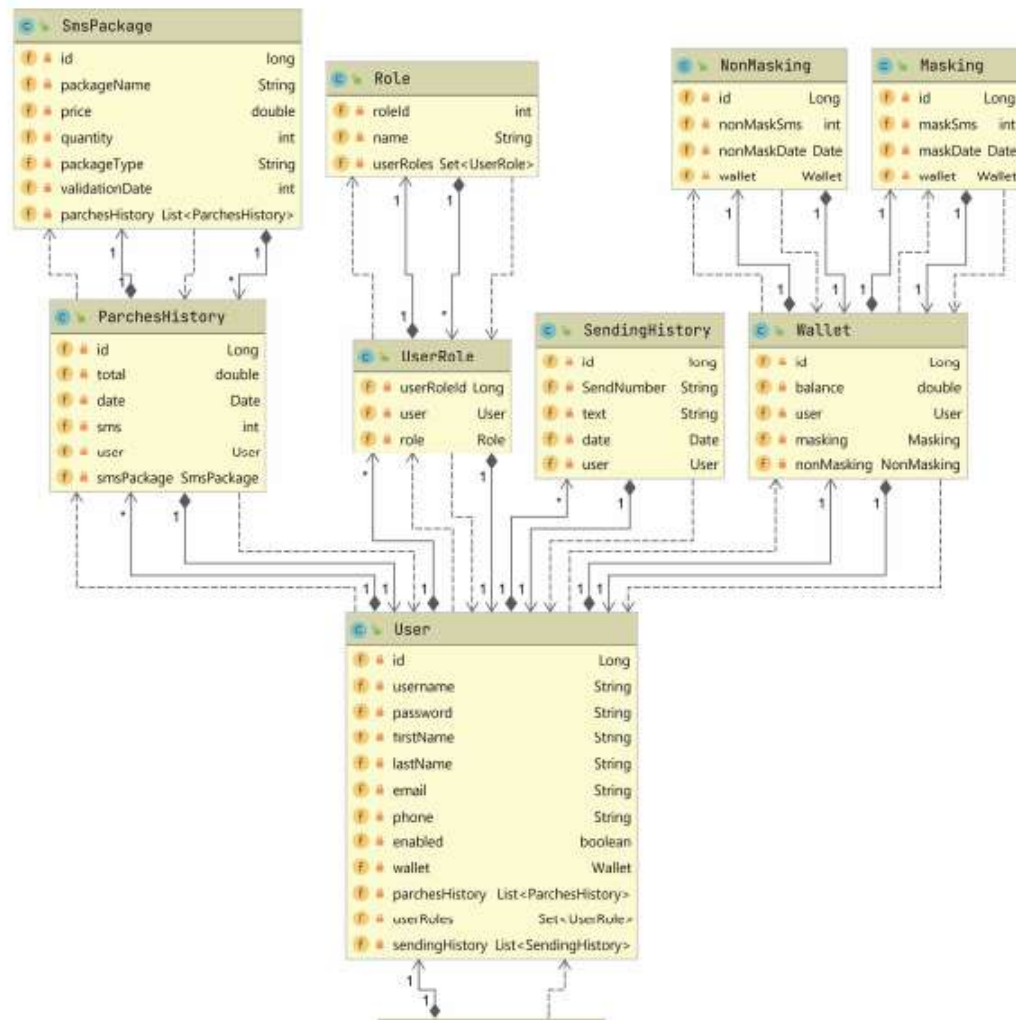


Figure 4. 2: Class Diagram

4.3 Development of tools And Technology

4.3.1 User Interface Technology

1. HTML5
2. CSS3
3. Bootstrap 4
4. JavaScript
5. Spring boot

4.3.2 Implementation Tools & Platforms

1. Object-Oriented programming JAVA
2. MySQL
3. Spring Tool Suite
4. Chrome Browser
5. MVC Architecture

CHAPTER 5

SYSTEM TESTING

5.1 Testing Features

5.1.1 Features to be tested

- Registration
- Login
- Sending Bulk SMS
- Buy SMS Package

5.1.2 Features to be tested

- Check Remaining SMS
- Performance of Bulk SMS sending

5.2 Testing Strategies

5.2.1 Testing Approach

- The whole system should be tested manually following step by step.
- Client acceptance will be proved for the system is tested.
- Admin activities will be tested for entire system.

5.2.2 Pass/Fail Criteria

- Component Pass/Fail criteria – The test will pass if the case meet the object design requirement or fail if not.
- Integration Pass/Fail criteria – The test will pass if the case meets the object design architecture requirement or fail if not.

5.2.3 Suspension and Resumption

- Regression Testing – The system should work properly after each change on the system
- Database change: The system will not work properly if we change database name.
- Build Acceptance Test – The system will pass the test if every build is successful if not then try the build again.
- System Design Changes – The system should work properly after each change in the design.

5.2.4 Testing Schedule

Test Phase	Time
Test Plan Creation	2 week
Test Specification Creation	2 week
Test Specification Team Review	3 week
Component Testing	3 week
Integration Testing	4 week
System Testing	3 week

Table 5. 1: Testing Schedule (Programmer Form)

5.3 Test case

5.3.1 Test case 1

Test case #:01	Test case name : sign in
System : User login	Subsystem : N/A
Design by: Afrail Hossain (171-35-2016)	Design Date : 8-09-2020
Execute By : Afrail Hossain	Execution date : 12-09-2020

Table 5. 2: Test Case 1 (User Login)

Step	Action	Pass/fail	Comment
1	When a user fills up only email field and clicks the login	pass	Other fields are required
2	When a user clicks only login button without a fill-up any field	pass	Fill out this field.
3	When a user enters user name like John	pass	the email field is not an email

Table 5. 3: User Login

5.3.2 Test Case: 02

Test case #: 02	Test case name : Registration
System : Registration	Subsystem : N/A
Design by: Afrail Hossain (171-35-2016)	Design Date : 1-09-2020
Execute By : Afrail Hossain	Execution date : 7-09-2020

Table 5. 4: Test Case 2 (Registration)

Step	Action	Pass/fail	comment
1	When a user fills up only Name field and clicks the login	pass	Other fields are required
2	When a user clicks only login button without a fill-up any field	pass	Fill up the Required field
3	When a user enters email like abc.com	pass	Fill up the previous Required field
4	When a user enters email like sms@gmail.com	pass	The valid email needs to register

Table 5. 5: Registration

5.3.3 Test Case: 03

Test case #: 03	Test case name : Request for an appointment
System : Request for an appointment	Subsystem : N/A
Design by: Afrail Hossain (171-35-2016)	Design Date : 6-10-2020
Execute By : Afrail Hossain	Execution date : 16-10-2020

Table 5. 6: Test Case 3 (Sending Bulk SMS)

Step	Action	Pass/fail	Comment
1	When a user click on request button without Authentication.	pass	Login is required
2	When a user click on available button then enter buy will be sms	pass	Others button will not work

Table 5. 7: Sending Bulk SMS

5.3.4 Test Case: 04

Test case #: 04	Test case name : Add Schedule
System : Add Schedule	Subsystem : N/A
Design by: Afrail Hossain (171-35-2016)	Design Date : 16-09-2020
Execute By: Afrail Hossain	Execution date : 25-06-2020

Table 5. 8: Test Case 4 (Buy SMS Package)

Step	Action	Pass/fail	Comment
1	When a Counselor click on any button in send sms.	pass	Message will be available.

Table 5. 9: Buy SMS Package

CHAPTER 6

USER MANUAL

6.1 User Manual (user)

6.1.1 UC-1: Registration

Registration for Bulksms BD

Register a new membership

First name 

Last name 

User name 

Email 

phone 

password 

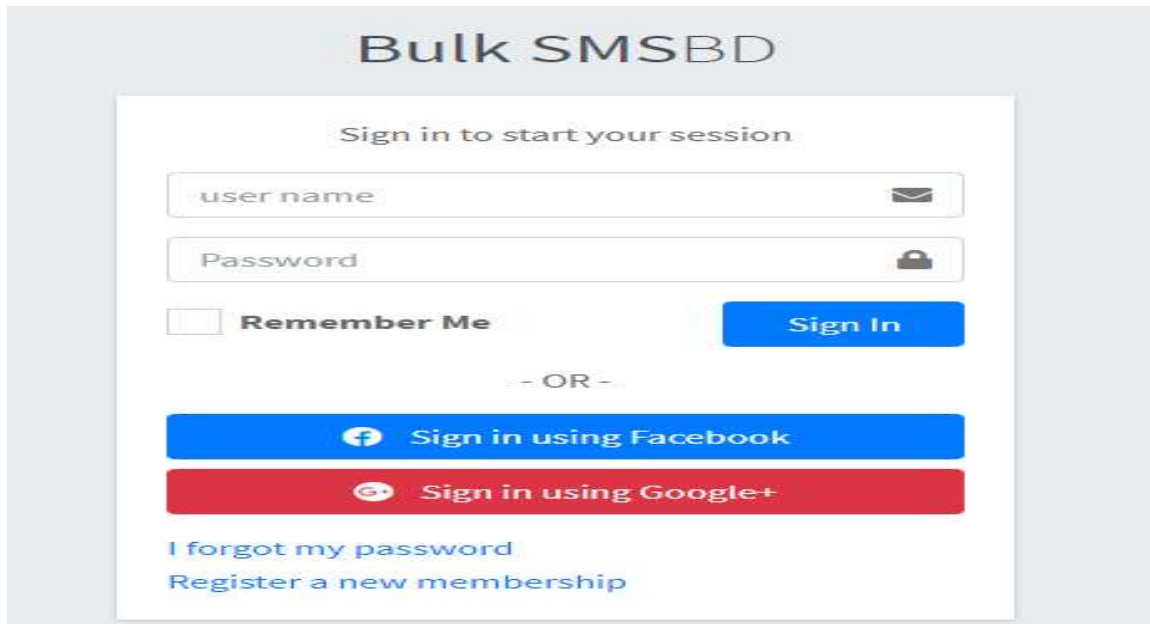
☐ I agree to the [terms](#)

[I already have a membership](#)

[Register](#)

Figure 6. 1: User Manual for Registration

6.1.2 UC-2: Login



Bulk SMSBD

Sign in to start your session





☐ **Remember Me**

Sign In

-- OR --



Sign in using Facebook

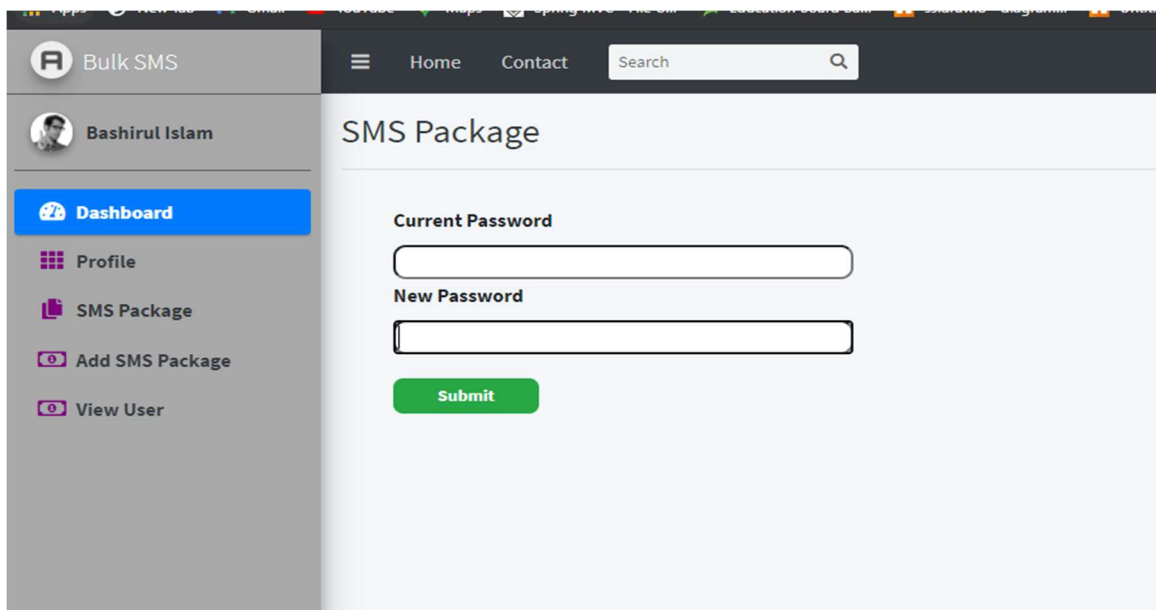


Sign in using Google+

[I forgot my password](#)
[Register a new membership](#)

Figure 6. 2: User Manual for Login

6.1.3 UC-3: Change password




Bulk SMS


Bashirul Islam

Dashboard


Profile


SMS Package


Add SMS Package


View User

Home
Contact

Search

SMS Package

Current Password

New Password

Submit

Figure 6. 3: User Manual for Change Password

6.1.4 UC-4: Select package

Bulk SMS Afrail Hossain Dashboard Profile Sending History Send Message SMS package	ALL TYPE OF SMS				
	SMS Name	SMS Type	SMS	SMS Price	Validation
	regular	non masking	5000	55.0	30
	regular	non masking	500	20.0	30
	New Year Bundle Pack.	non masking	3500	150.0	7
	regular	masking	2500	326.0	25
	regular	non masking	45	44.0	7
	regular	masking	0	0.0	7
	New Year Bundle Pack.	masking	1500	45.0	7

Figure 6. 4: User Manual for Select Package

6.1.5 UC-5: Send history

Bulk SMS Afrail Hossain Dashboard Profile Sending History Send Message SMS package	ALL TYPE OF SMS		
	Send Number	Text	Date
	+8801732065700	gggggg	2021-01-05 23:10:13.0
	+8801732065700	gggggg	2021-01-05 23:10:13.0
	+8801732065700	jj	2021-01-05 23:10:13.0
	+8801732065700	111111	2021-01-05 23:58:18.0
	+8801732065700	dddddddddd	2021-01-06 00:05:14.0
	+8801732065700	asdfghjkl	2021-01-08 15:38:30.0

Figure 6. 5: User Manual for Send History

6.1.6 UC-6: Purchase history

The screenshot displays a web application interface. At the top, there is a dark navigation bar with a menu icon, 'Home', 'Contact', and a search bar. Below this, the 'Profile' section is visible, containing user details: NAME: Afrail Hossain, EMAIL: afrailkhan6@gmail.com, PHONE: 01732065700, and ADDRESS: 15/A Road#1, Kallyanpur Dhaka01205. A 'Change Password' button is located below the profile information. To the right, the 'Purchase History' section features a table with the following data:

SMS	Date	Price	Type
5000	2021-01-03 23:15:59.0	55.0	non masking
500	2021-01-03 23:38:56.0	20.0	non masking

An 'Activate Windows' watermark is visible in the bottom right corner of the screenshot.

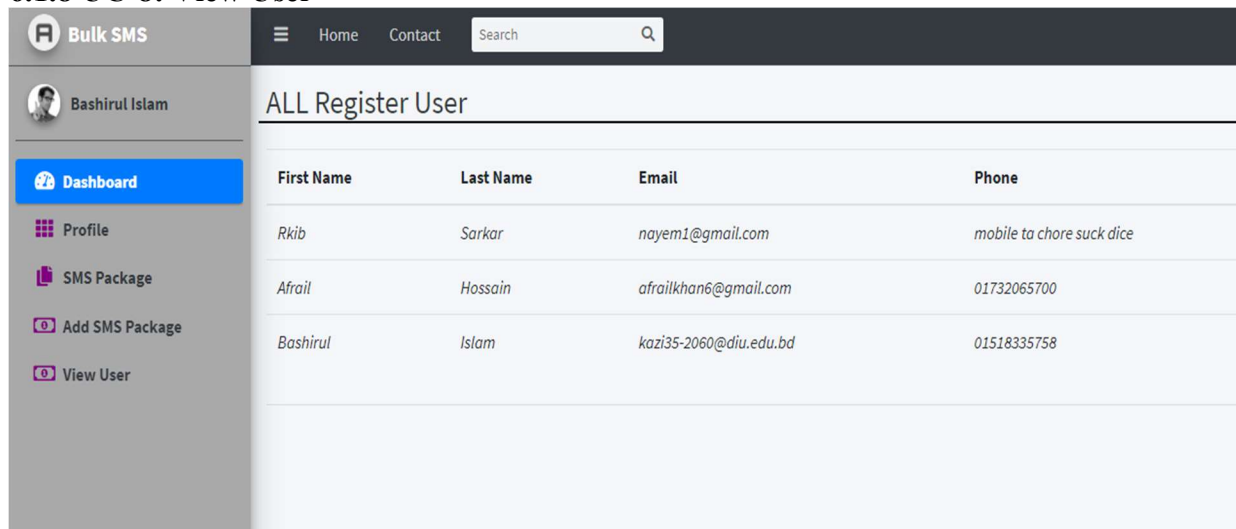
Figure 6. 6: User Manual for Purchase History

6.1.7 UC-7: Send sms

The screenshot shows a web application for sending SMS. The left sidebar contains a 'Bulk SMS' header and a user profile for 'Afrail Hossain'. Below the profile, there is a 'Dashboard' button and a list of menu items: 'Profile', 'Sending History', 'Send Message', and 'SMS package'. The main content area is titled 'Send Your SMS' and includes two input fields for phone numbers: '+12184526783' and '01732065700'. Below these fields is a rich text editor with a toolbar containing icons for bold, italic, underline, text color, background color, bulleted list, numbered list, link, unlink, image, video, and source code. The text 'I want to software engineer' is entered in the editor. A 'Send a message' button is located at the bottom of the editor.

Figure 6. 7: User Manual for Send SMS

6.1.8 UC-8: View User

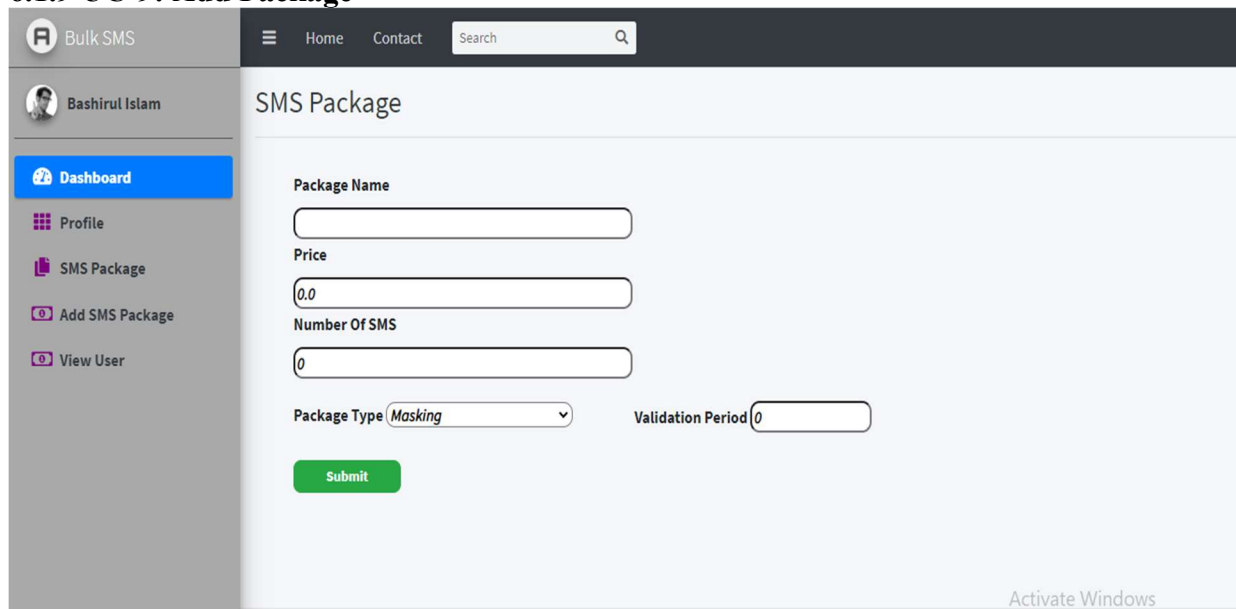


The screenshot shows the 'Bulk SMS' application interface. The left sidebar contains a user profile for 'Bashirul Islam' and a menu with options: Dashboard, Profile, SMS Package, Add SMS Package, and View User. The main content area is titled 'ALL Register User' and displays a table of registered users.

First Name	Last Name	Email	Phone
Rkib	Sarkar	nayem1@gmail.com	mobile to chore suck dice
Afrail	Hossain	afrailkhan6@gmail.com	01732065700
Bashirul	Islam	kazi35-2060@diu.edu.bd	01518335758

Figure 6. 8: User Manual for View User

6.1.9 UC-9: Add Package



The screenshot shows the 'Bulk SMS' application interface. The left sidebar contains a user profile for 'Bashirul Islam' and a menu with options: Dashboard, Profile, SMS Package, Add SMS Package, and View User. The main content area is titled 'SMS Package' and displays a form to add a new package.

Package Name:

Price:

Number Of SMS:

Package Type: Validation Period:

Figure 6. 9: User Manual for Add Package

6.1.10 UC-10: Update Package

The screenshot displays the 'Bulk SMS' application interface. The top navigation bar includes links for Home and Contact, along with a search bar. The left sidebar shows the user profile 'Bashirul Islam' and a menu with options: Dashboard (highlighted), Profile, SMS Package, Add SMS Package, and View User. The main content area is titled 'SMS Package' and contains a form for updating package details. The form fields are as follows:

Field Label	Current Value
Package Name	regular
Price	55.0
Number Of SMS	5000
Package Type	Masking
Validation Period	30

A green 'Submit' button is located at the bottom of the form.

Figure 6. 10: User Manual for Update Package

CHAPTER 7

PROJECT SUMMARY

7.1 GitHub Link

<https://github.com/afraill/bulksmsbd>

7.2 Limitations

- It cannot send SMS out of Bangladesh.
- User can't recharge wallet balance automatically.
- Masking SMS can't be sent just at the moment.

7.3 Obstacles & Achievements

At first I have seen a lot of features and got an idea from this feature then started my work to implement it into my project. Then I have faced a huge problem that I couldn't connect to API. After a lot of searching I have found an API www.twilio.com. Then I created a profile on Twilio then using the API and secret key I have connected to my server using JAVA Spring. Then I have successfully been able to send SMS to any operator customer. And this is my new achievement what I have done and it also added in my career.

7.4 Future Scope

In the future it may be included in the social media feature so that it is easy to send online campaigning.

- Send message any country phone number.
- User can automatically recharge wallet balance mobile banking or credit card.
- User can send voice SMS and send bulk mail

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PLAGIARISM REPORT

2/6/2021

Turnitin

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