A project Report on

Shipping Management System

In fulfillment of the requirement for the 4th Semester of Master of Science in Information Technology Programme

Submitted by

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Session: August 2024

Under the Guidance of:
Mr. NILESH BOKHANI

Acknowledgement

We are thankful to Mr. Nilesh Bokhani and also thankful to our organization Team, for inspiring us by spending their valuable time and effort also being supportive at every stage of the project work. They encouraged us and provided full support whenever needed throughout our completion of the project we have undertaken as our final year project. We also express our gratitude for their continuous source of guidance and help at technical side. Without their help and right guidance, the completion of the project would have been very difficult.

We are also thankful to Dr. Babasaheb Ambedkar Open University for offering us such a great elective subject that binds all the knowledge. We have gained through this degree program and last but not the least we would like to thank all our friends who have provided their throughs about our project during development and for the further enhancement.

Thanking you,

SOLANKI SHYAM VASANTBHAI ,
JETHAVA JIGESH RAJENDRA

Certificate of Originality from the Guide

This is to certify that the project report entitled as **Shipping Management System** submitted to Dr. Babasaheb Ambedkar Open University in partial fulfillment of the requirement for the award of the degree of Master of Science in Information Technology Master of Science - Information Technology, is an original work carried out by Mr. **SOLANKI SHYAM VASANTBHAI & JETHAVA JIGESH RAJENDRA** Enrolment No.: **222030202258MSCIT & 822000329407MSCIT** under the supervision of **Mr. NILESH BOKHANI**

The matter embodied in this project is a genuine work done by the learner and has not been submitted either to this University or to any other University/Institute for the fulfillment of the requirement of any course of study.

Signature of the Learner
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Signature of the Guide
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Designation: **Professor**

Mob. : +91 9033323939, 8460209268

ABSOLUTE SHIPPING & MARINE SERVICES

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E-mail : supply.absoulteshipping@outlook.com, technical.absoulteshipping@rediffmail.com

LETTER OF PERMISSION

Date: 03/06/2024

To,
Dr. Babasaheb Ambedkar Open University
'Jyotirmay' Parisar, Dr. Babasaheb Ambedkar Open University Marg,
Sarkhej-Gandhinagar Highway, Chharodi,
Ahmedabad - 382 481.

TO WHOM SO EVER IT MAY CONCERN

Respected Sir/Madam,

With reference to the application given below students of second year MSC-IT of your College for the permission of prepare Shipping Management Website project in our Organization.

We are permitting **Mr Shyam Vasantbhai Solanki & Mr. Jigesh Rajendrabhai Jethava** for preparing website project in our company.

We have informed our staff to be available to assist candidates to provide them information might seek from our organization to help them to prepare their project report.

Please contact us if any additional information is required from us.

Permission granted to below students:

Mr. Shyam Vasantbhai Solanki
Mr. Jigesh Rajendrabhai Jethava

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Authorised Signatory

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1 INTRODUCTION

1.1 Company Information

Absolute Shipping and Marine Services

1) This is a software for handling the Container Enquiry
2) This Store the Container Enquiry in Database and Admin Can Manage it
3) This software handles the all the word flow and stored data of every Container Enquiry
4) This software is used by employees to handle all Container Enquiry
5) This software provides much help to the company it help storing and can access easily all operations

1.2 The key objective

1.2.1) WORK BY ONLINE SERVICE

All the Paper word is lessen and all data is stored on server

1.2.2) DATA STORAGE

All day to day operation are stored and can be visualized By Admin

1.2.3) AVAILABILITY

It is Available 24x7

1.2.4) MANAGEMENT

It can be Easily Managed by Admin

2 PROPOSED SYSTEM

2.1 Shipping Management System

1) User can Create Account(Sign Up)
2) User Can do a Container Enquiry
3) Admin Can Check Container Enquiry
4) Admin Can See all Created Account
5) Admin Can Send E-Mails

2.2 Advantages & limitation

Advantages

1) Provide easy Way to get Container Enquiry
2) Store All the Data
3) User can Access Anytime when Needed
4) Admin can Delete unnecessary Container Enquiry

Disadvantages

1) Admin need knowledge of flow of working of the system
2) User Cannot Modify Their Account

2.3 Project Profile

Project Title	SHIPPING MANAGEMENT SYSTEM
Project Definition	SHIPPING MANAGEMENT SYSTEM IS A SYSTEM IN WHICH A USER CANDO CONTAINER ENQUITY
Team Member	2
Team Member Name	SHYAM VASANTBHAI SOLANKI JIGESH RAJENDRA JETHAVA
Time Duration	4 Months

2.4 Technical Detail

Front End	BOOTSTRAP, JAVASCRIPT,HTML,CSS
Back End	MySQL , PHP
Operating System	Windows 11
Web Server	XAMPP SERVER
Browser	Internet Explorer, Mozilla Fire-Fox, Google Chrome
DATABASE	MySQL

2.5 Users Profile

USER	The primary user of the system. The user can visit and non-registered user of website.
Administrator	Admin Can Manage Website and Container Enquiry

3 Platform Environment

3.1 Specification for Hardware and Software

1) Operating System (for Development)
   - Windows 10
2) Server Configuration
   - Xampp Server
3) Database
   - MySQL
4) Software requirement (for Development)
   - Google Chrome
5) For Client Side
   - All web browser

3.2 Hardware and Software Detail

Software Details	
Front End Language	PHPMyAdmin
Back End Language	MySQL

Hardware Details	
Operating system	Windows 11
Processor	AMD Ryzen 5 5500U
Hard disk	512 GB
Main Memory	8 GB
CD Drive	No

4 Structure Analysis

4.1 Application Requirement Specification

Login :- For security purposes whenever each user attempts to get login. His/her login ID and Password should be verified before they are granted access

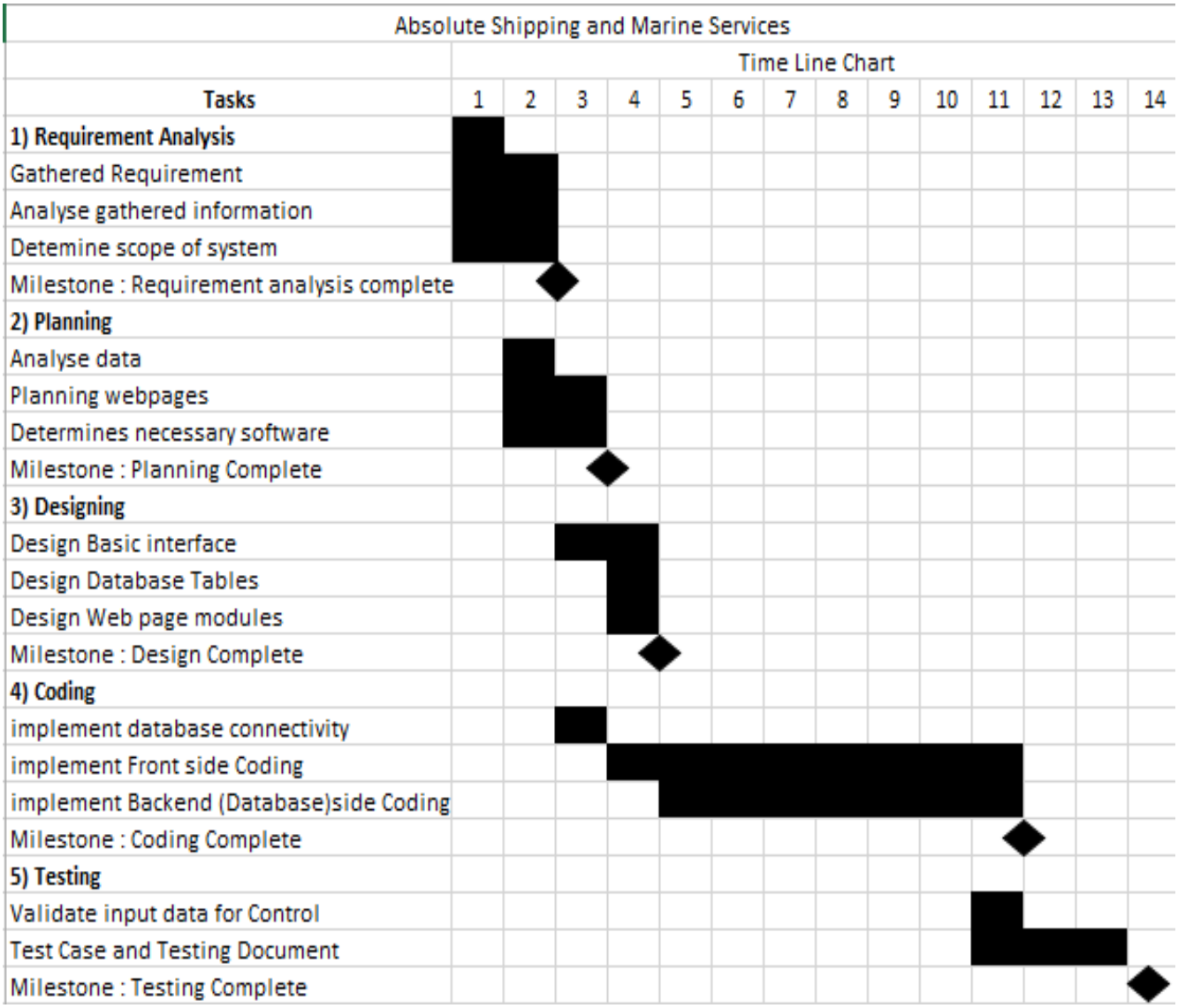
Change password :- User has been provided the facility to change his/her password that he/she usedto access the account

Delete account :- User can delete account permanently if they want to do so

Admin Delete Enquiry : - Admin can delete Container Enquiry

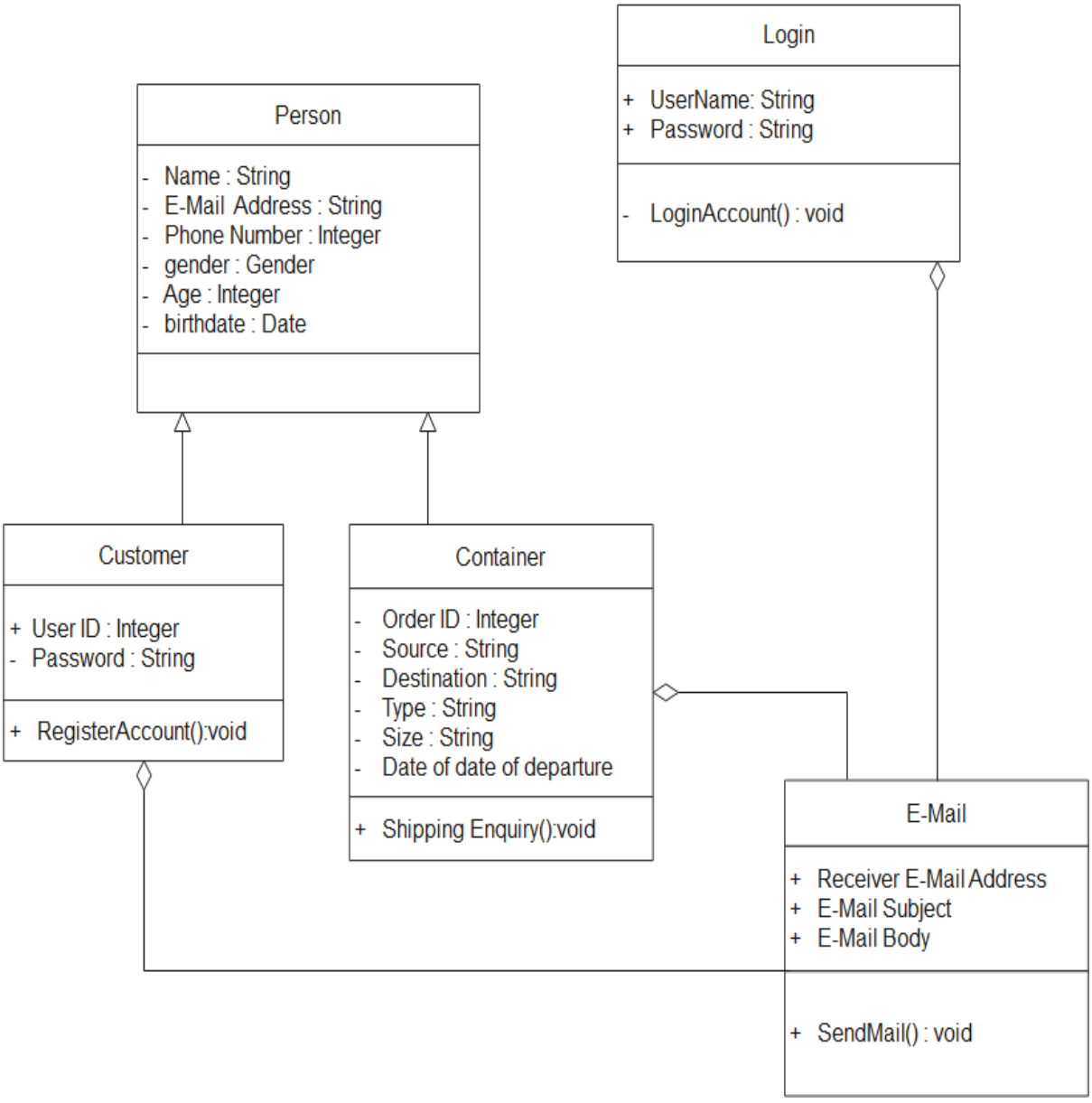
5 System Analysis

5.1 Time Line Chart



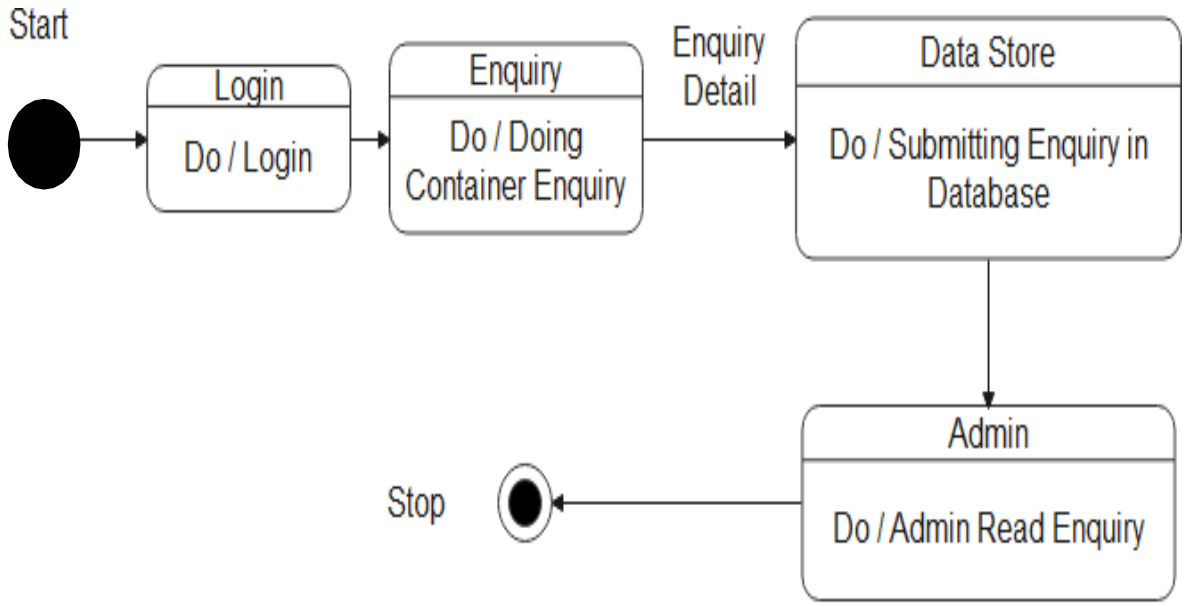
5.2 Class Diagram

Class Diagram for Shipping Management System

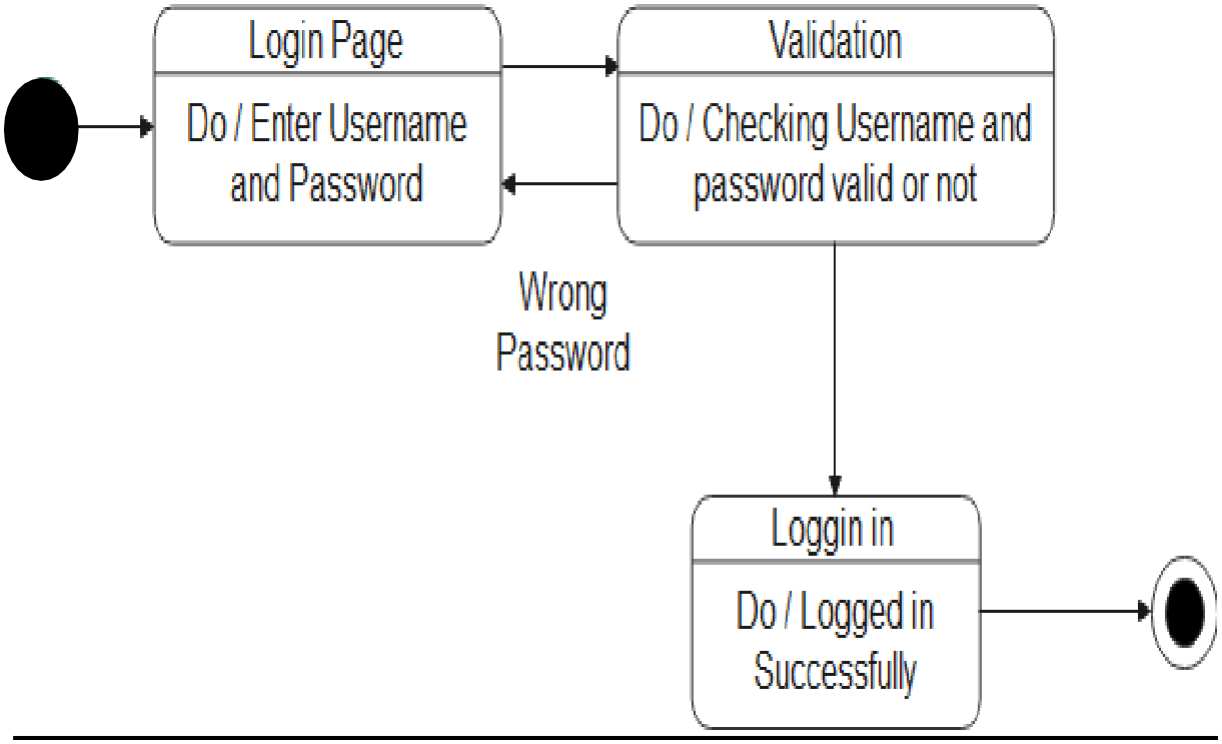


5.3 State Chart Diagram

State Chart Diagram for Container Enquiry

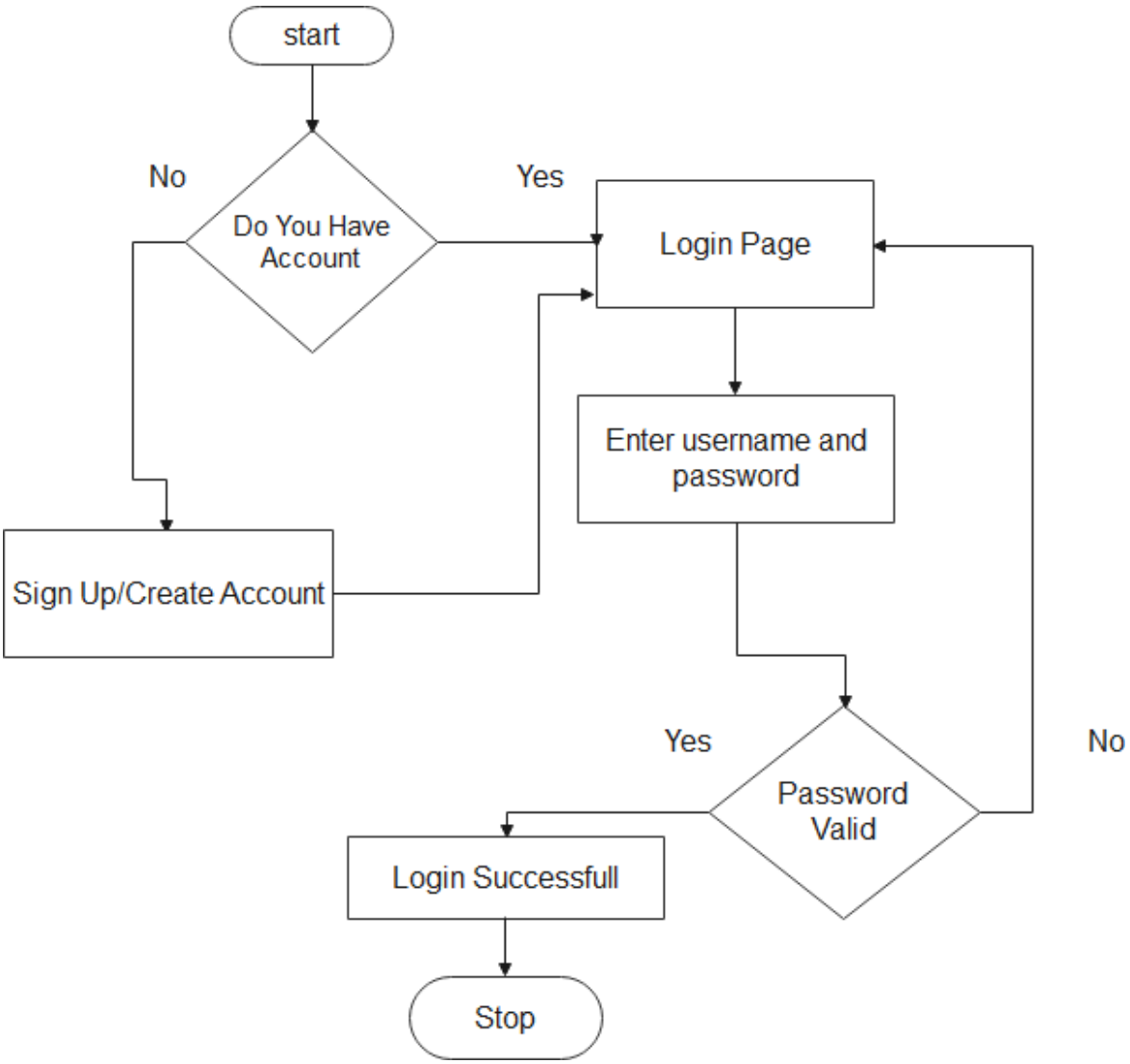


State Chart Diagram for Login

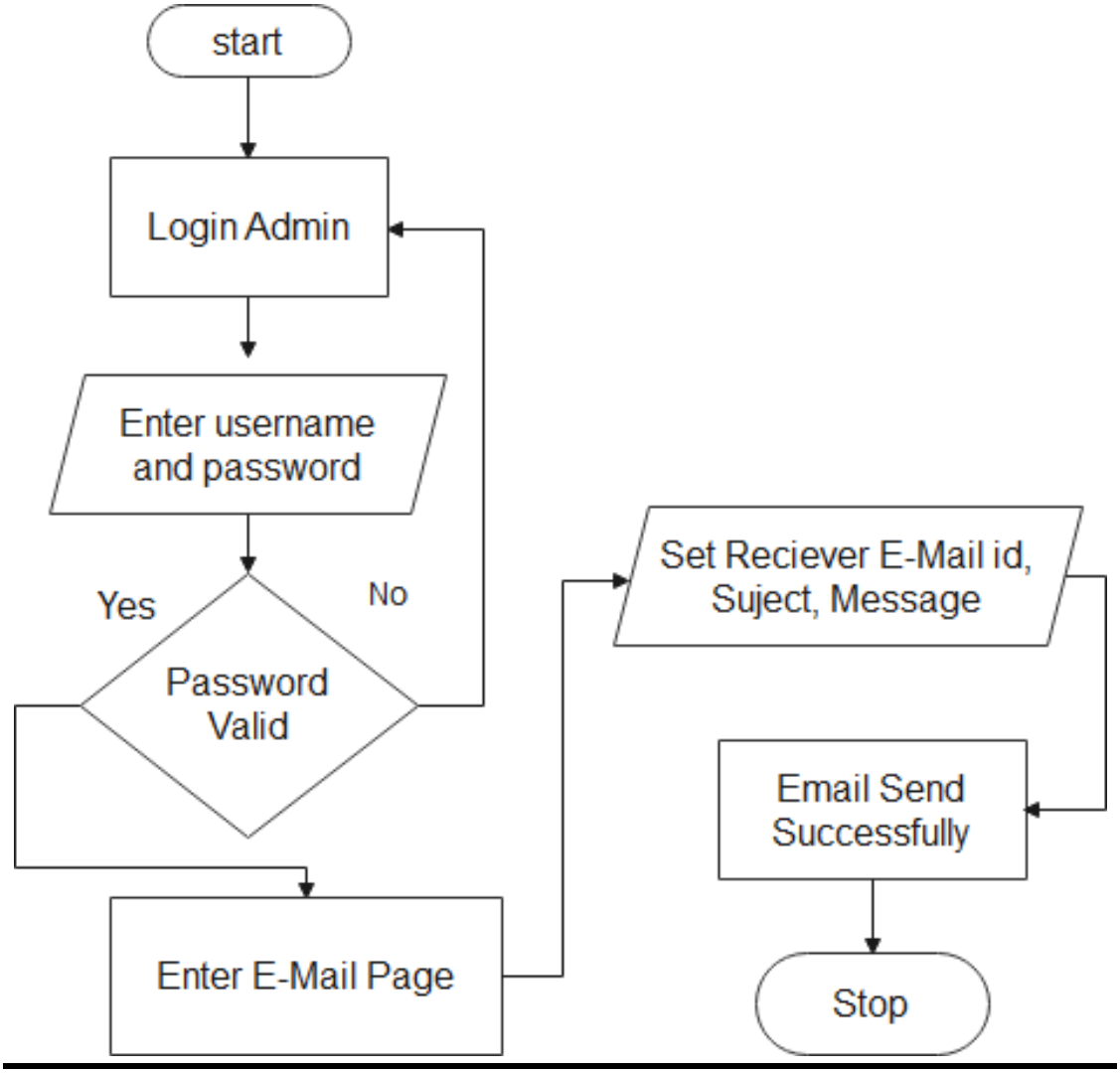


5.4 Flow Chart

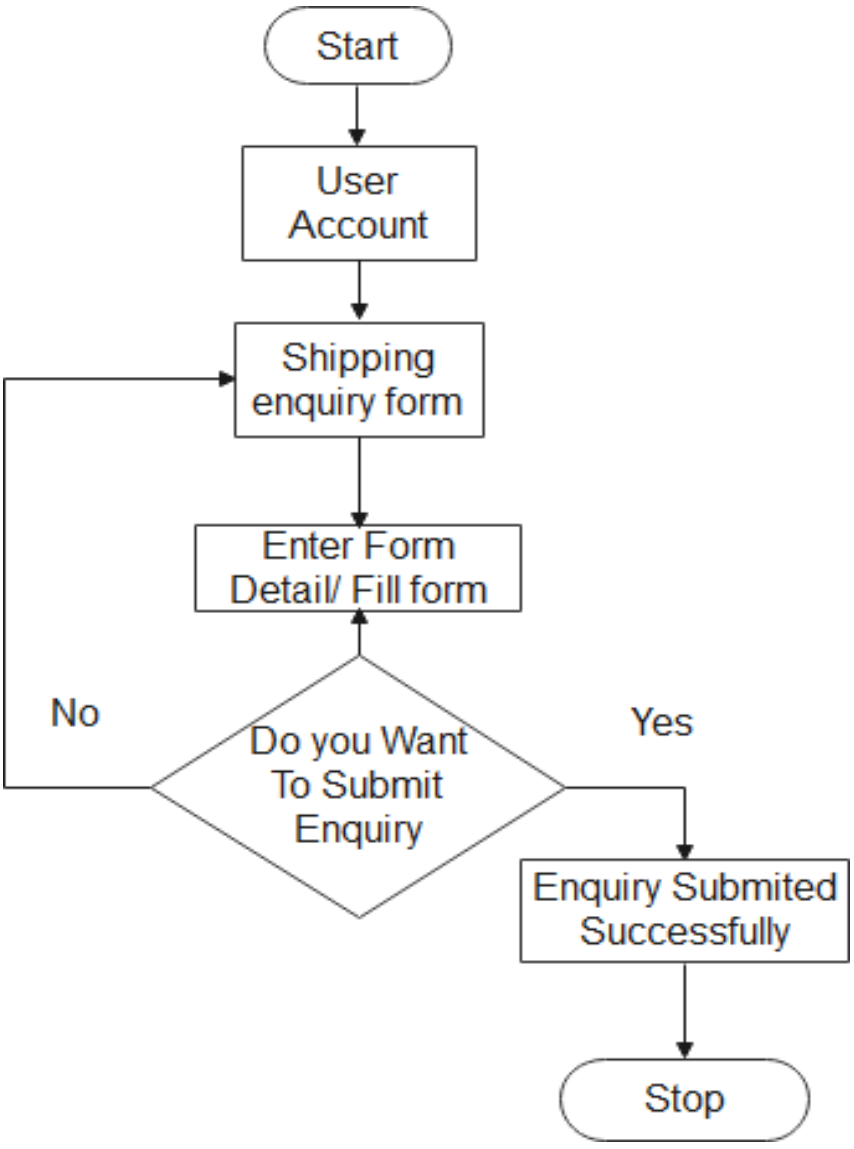
Flow Chart for Login Page



Flow Chart for E-Mail



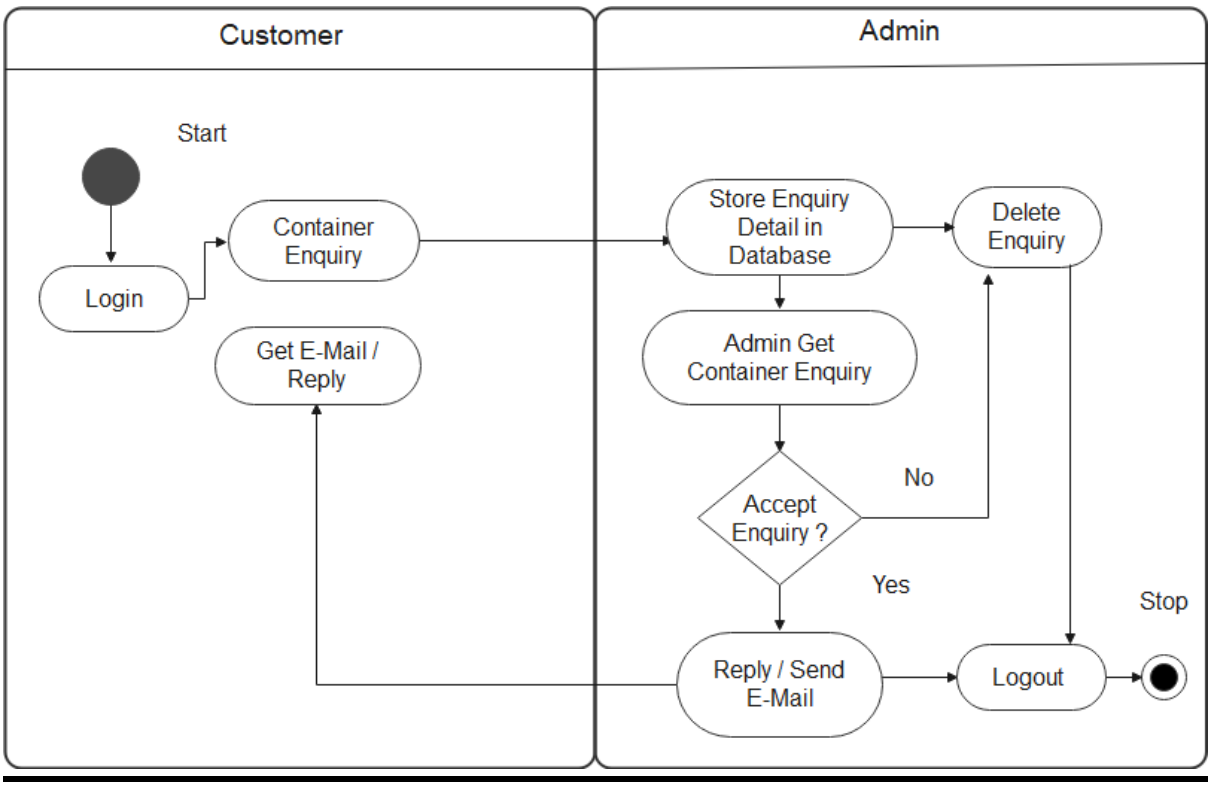
Flow Chart For Container Enquiry



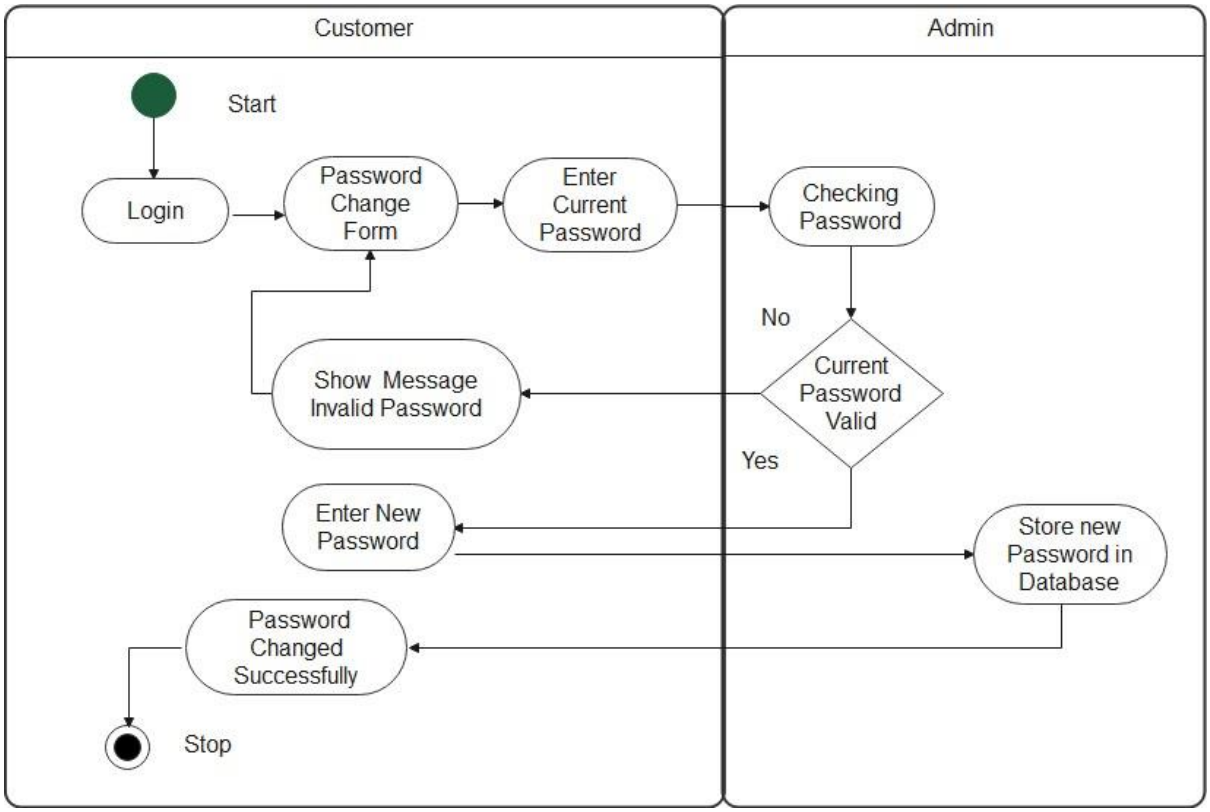
mmk

5.5 Activity Diagram

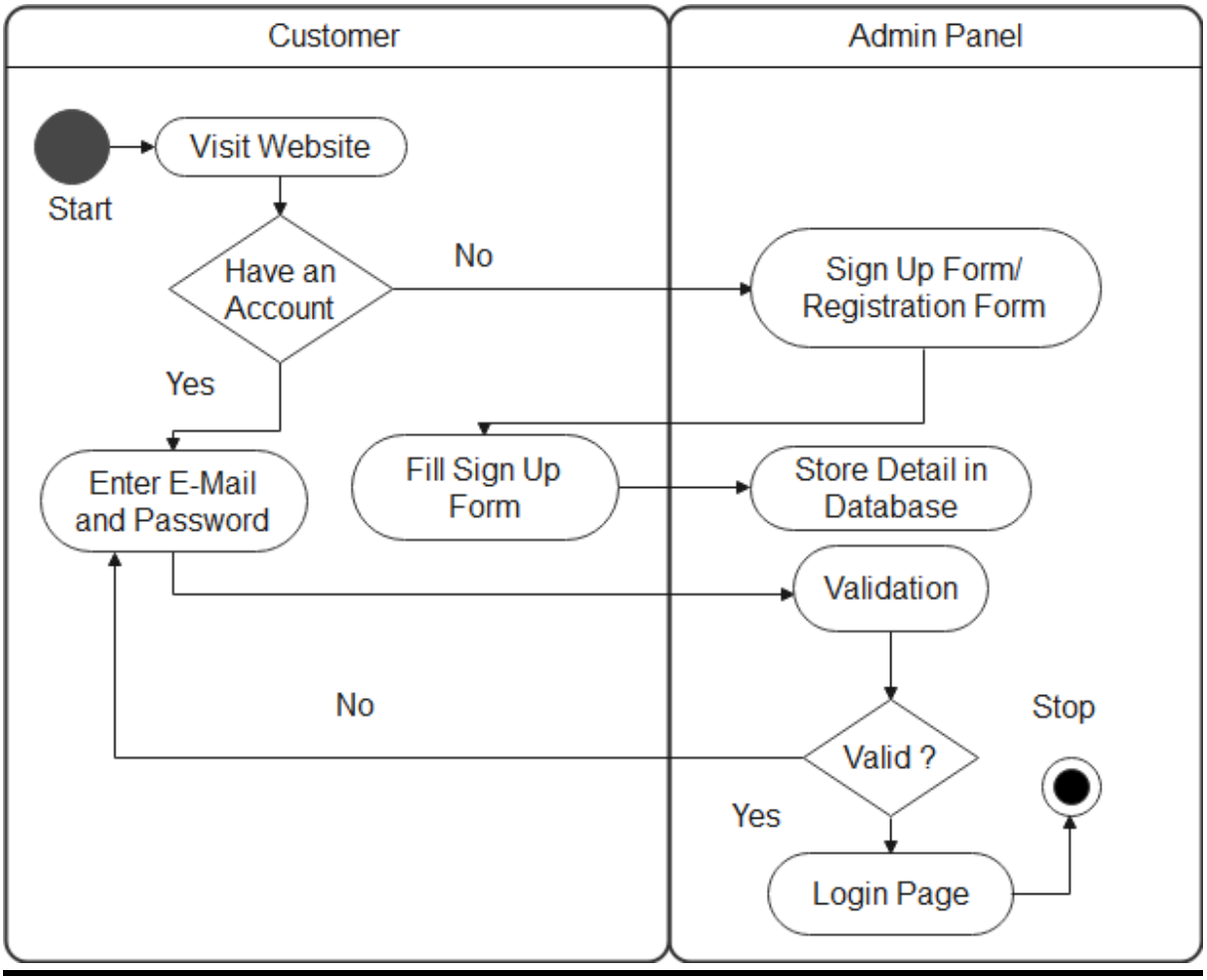
Activity Diagram for Container Enquiry



Activity Diagram for password change

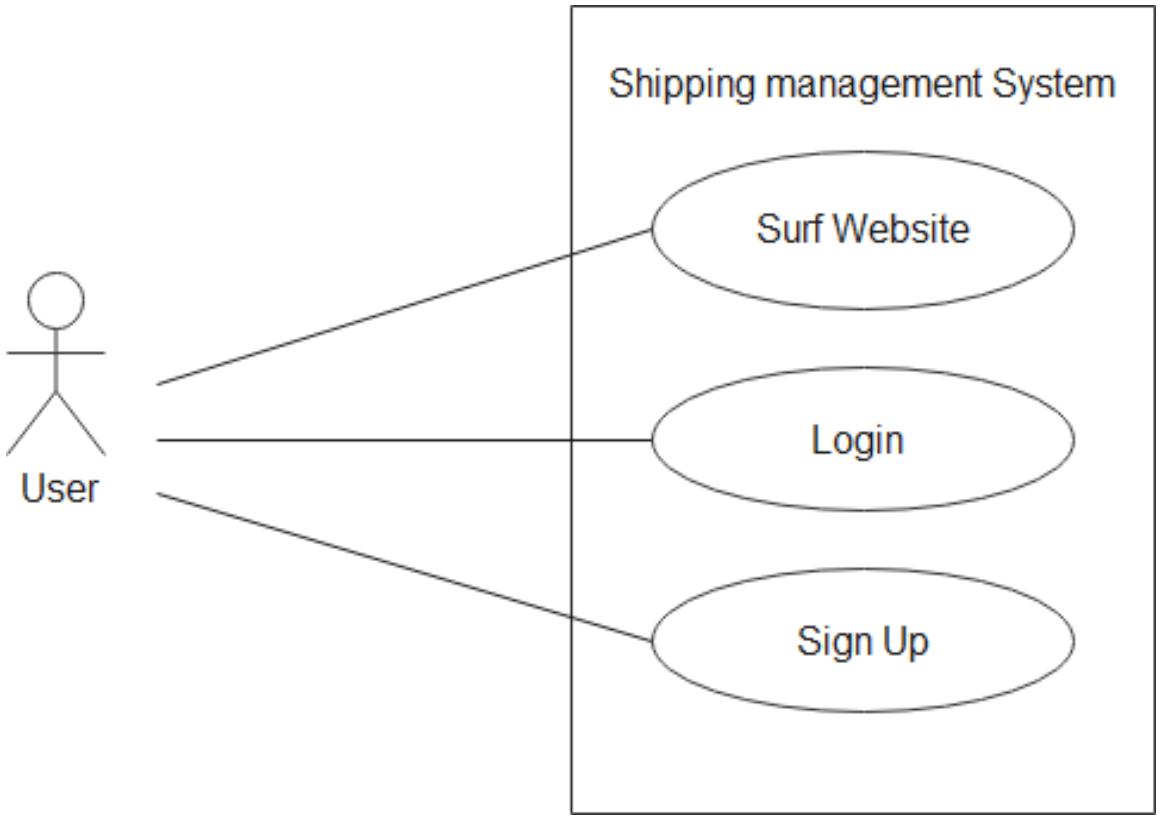


Activity Diagram For Login

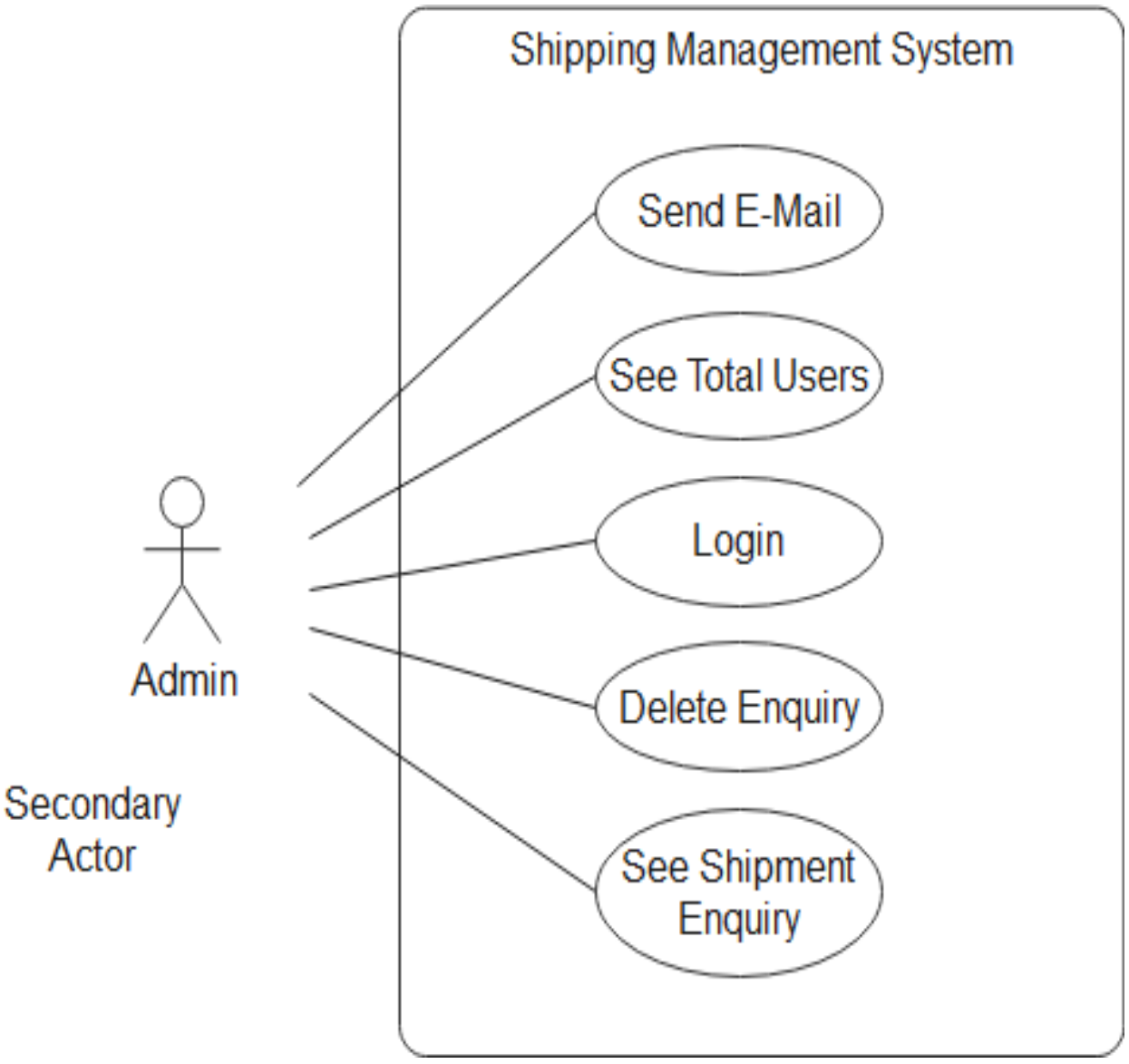


5.6 Use Case

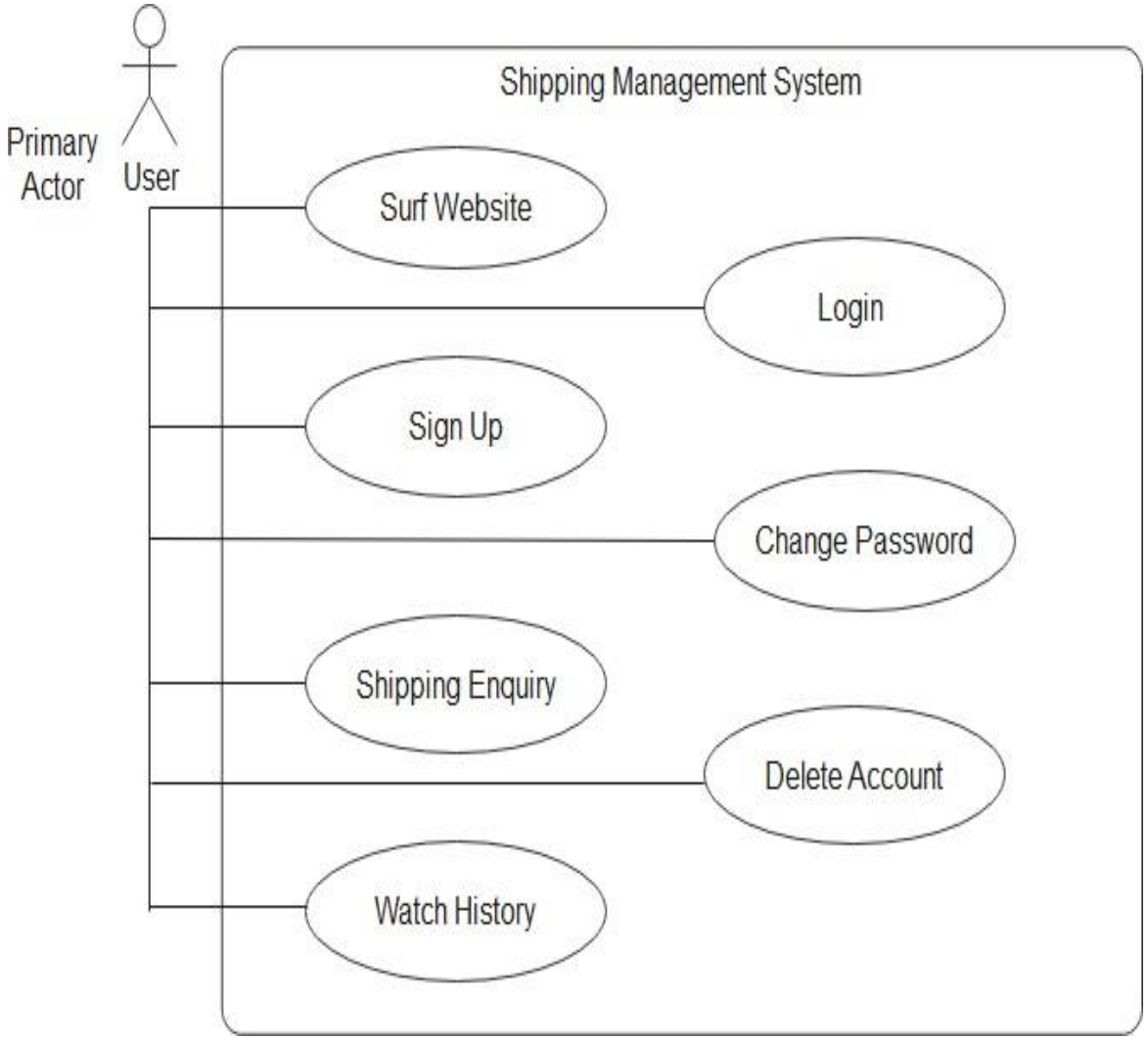
Use Case for Shipping Management System



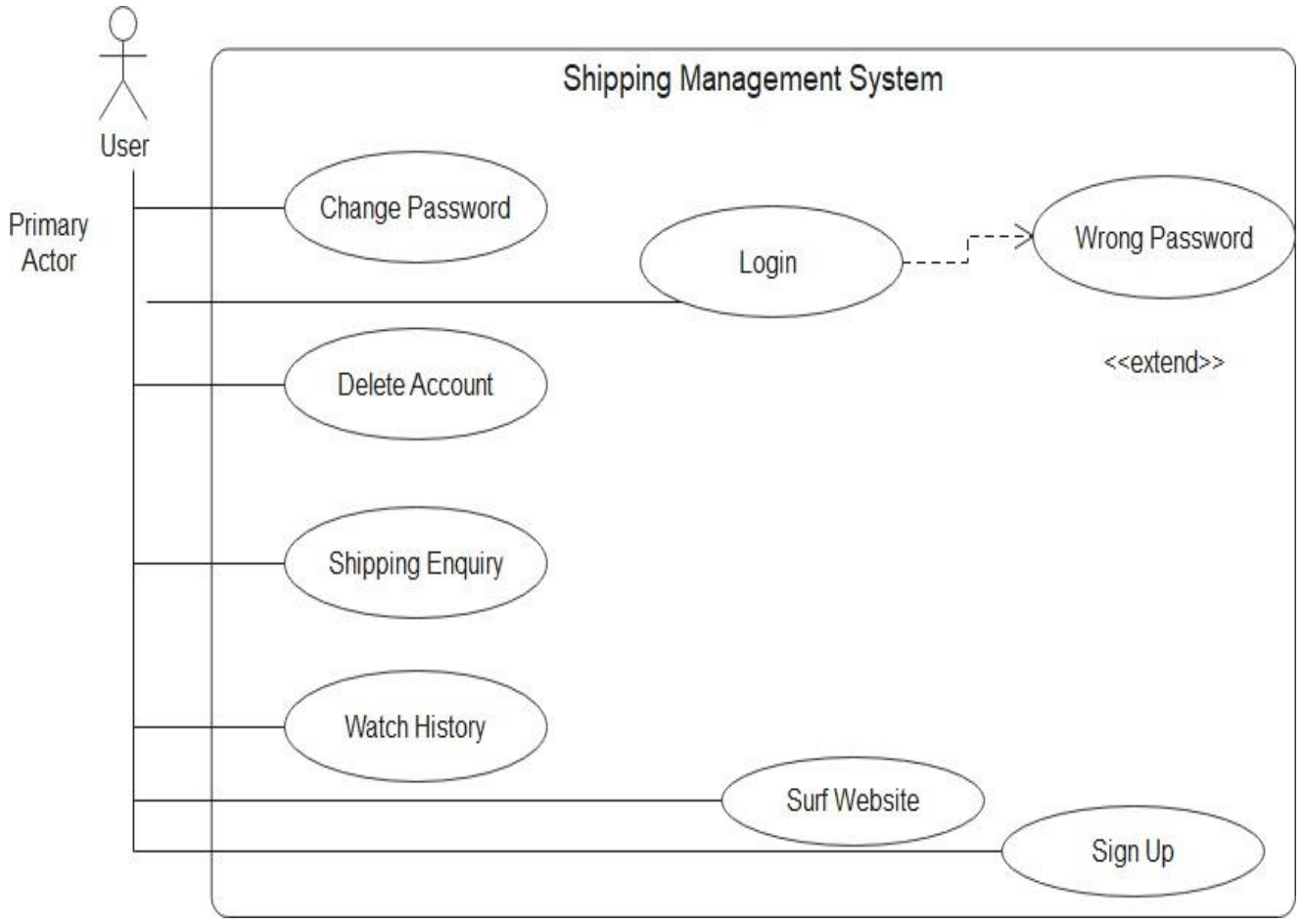
Use Case for Admin



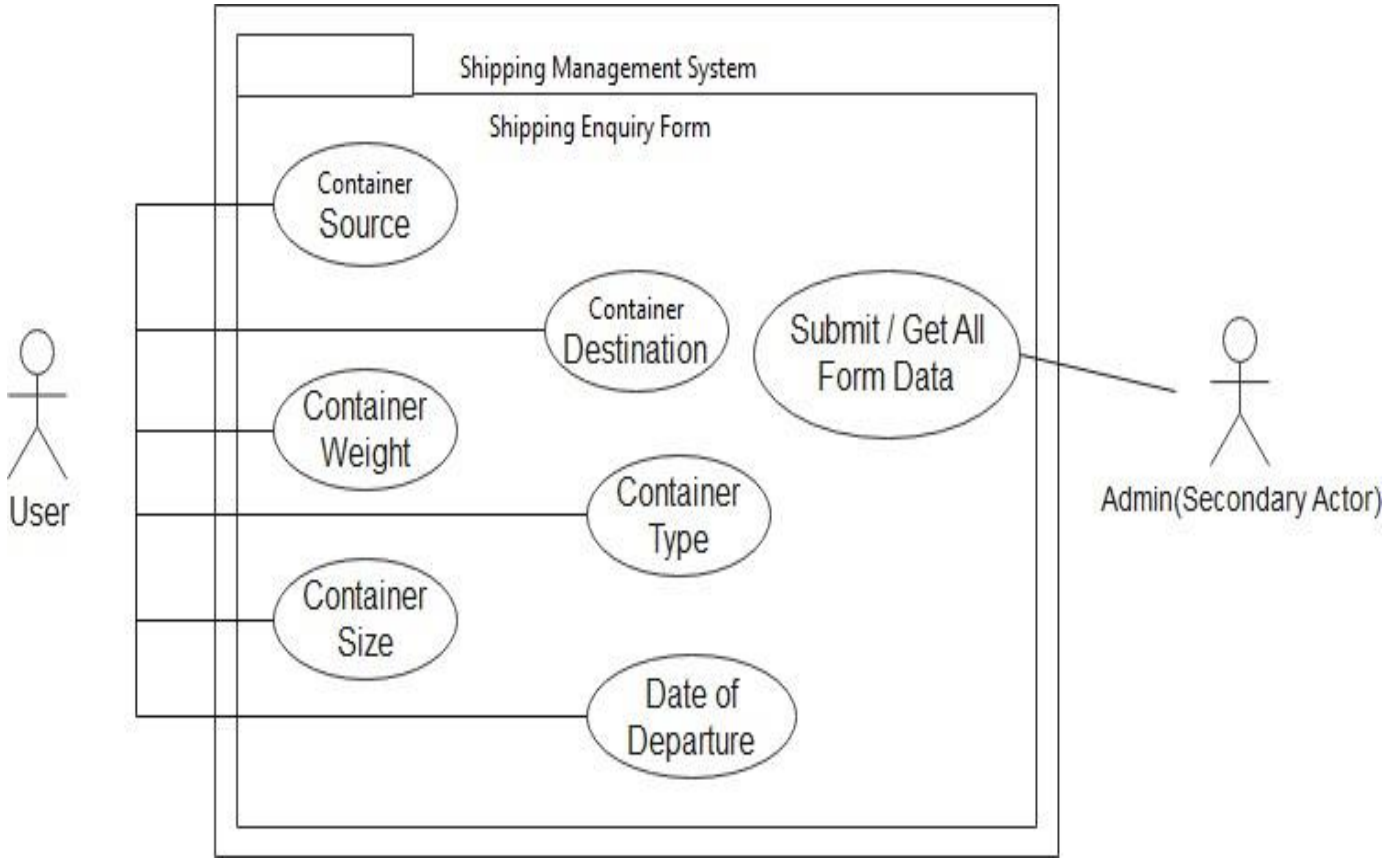
Use case for Customer



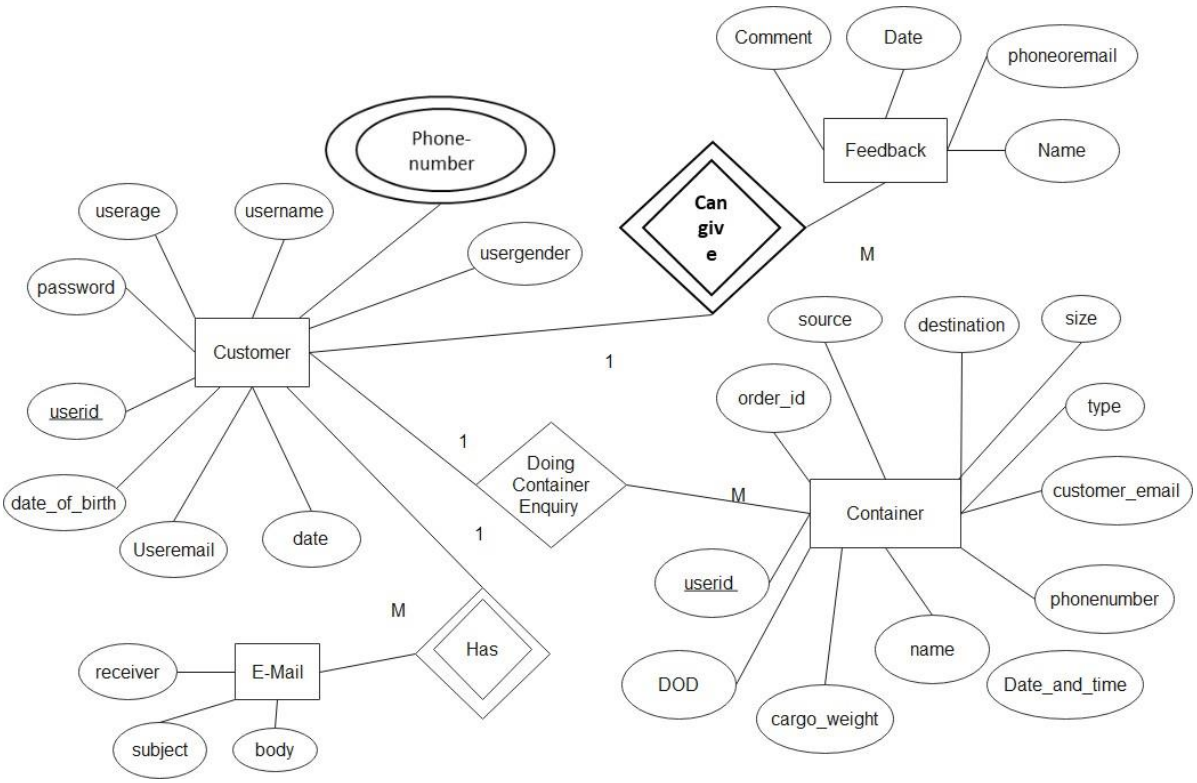
Use Case with Relationship for Customer



Use case for Container Enquiry

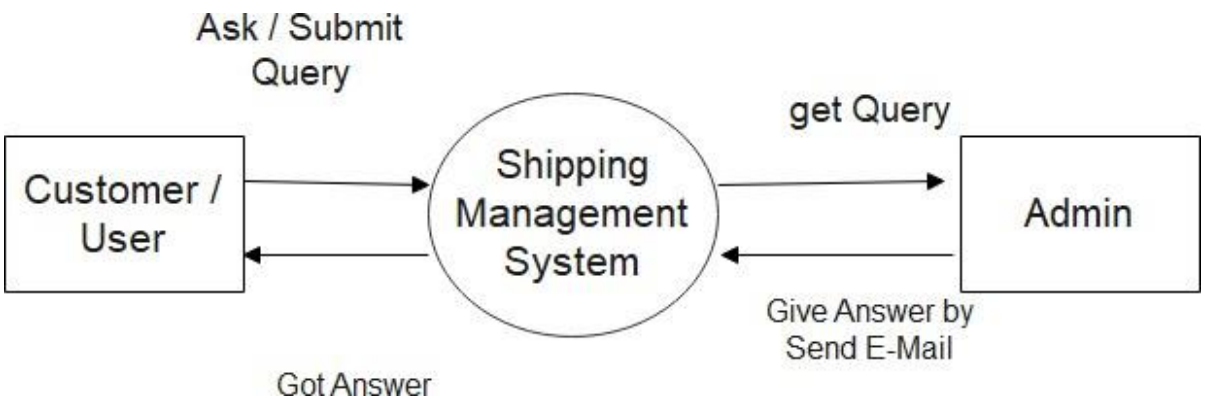


5.7 ER Diagram

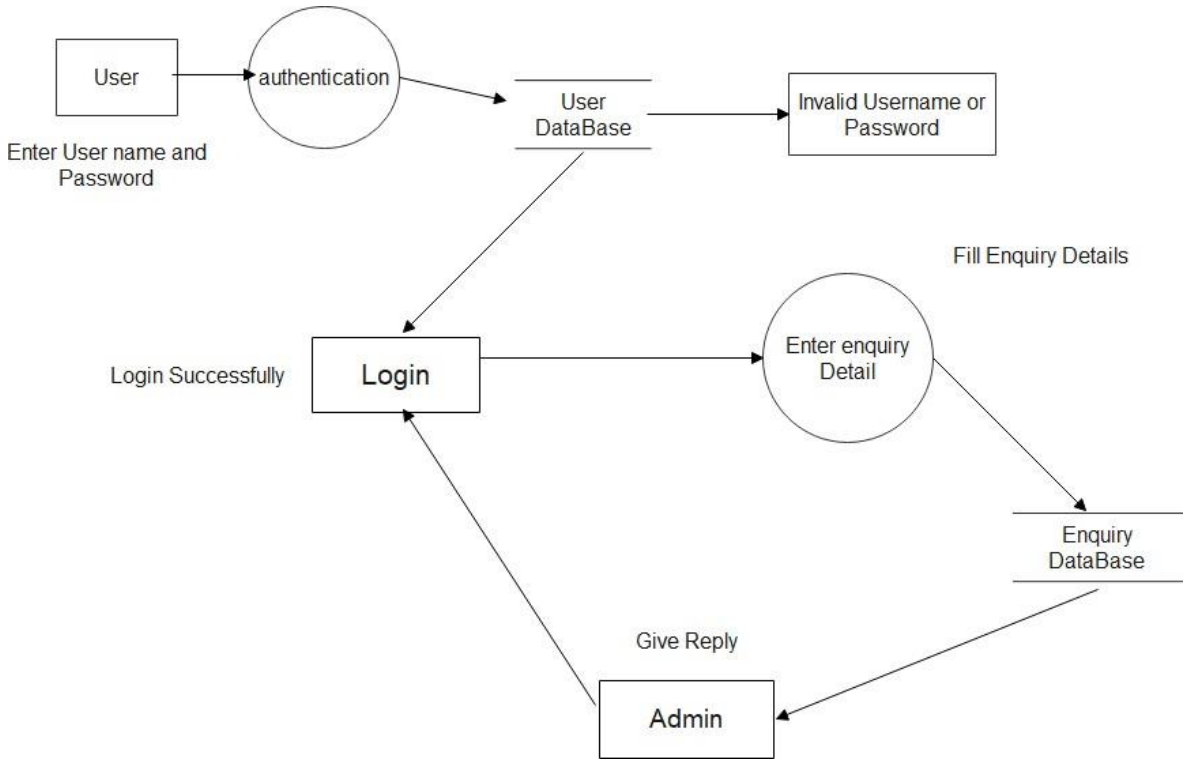


5.8 DATA FLOW DIAGRAM

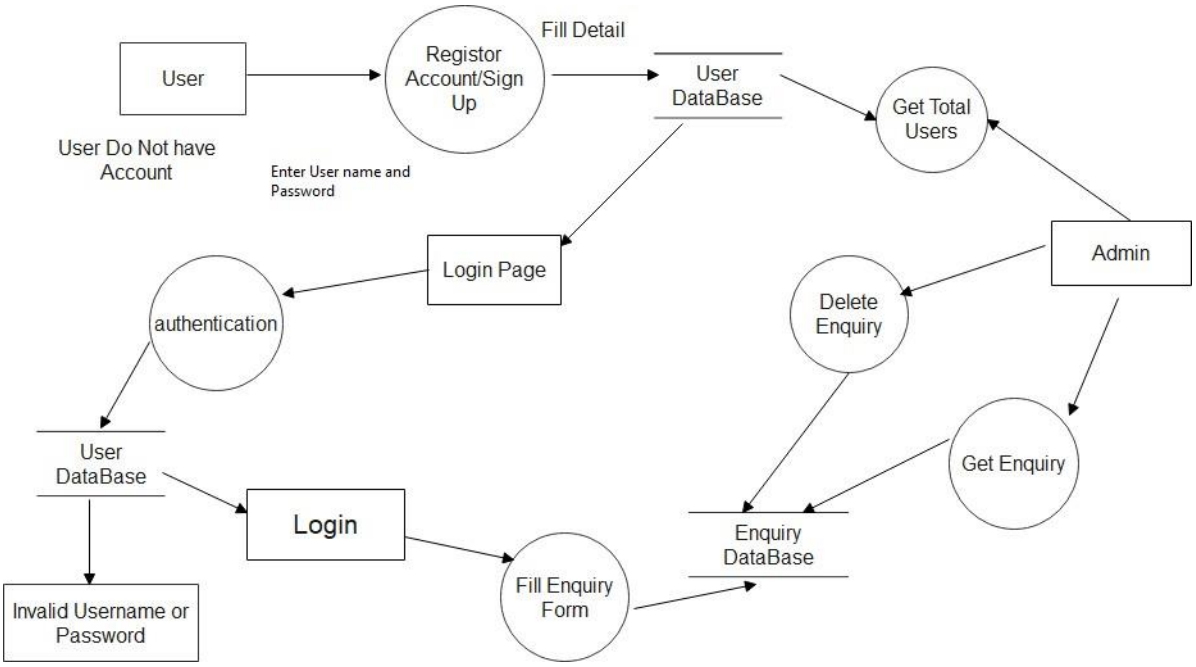
DFD Diagram Level 0



DFD Diagram Level 1

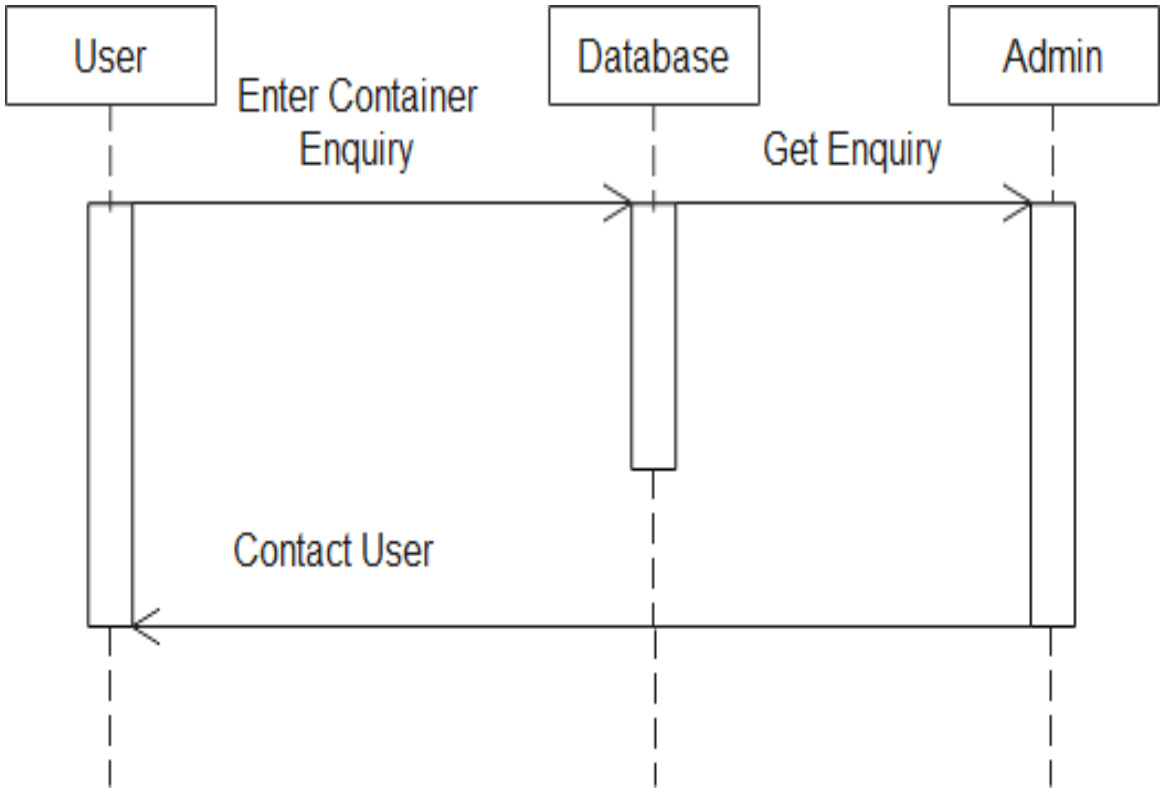


DFD Diagram Level2

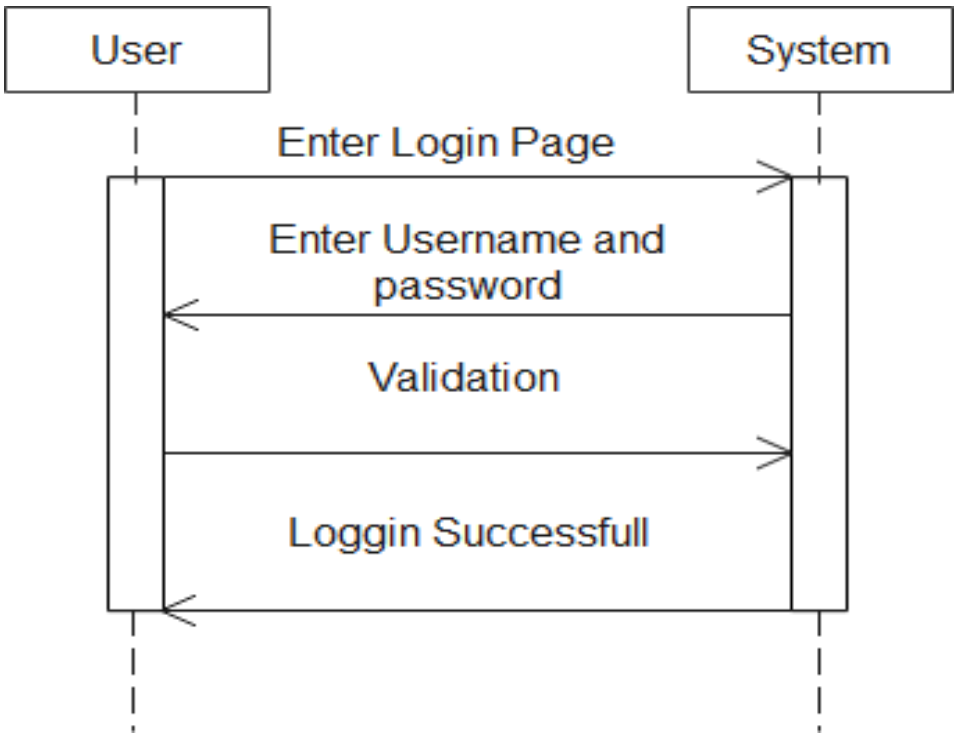


5.9 Sequence Diagram

Sequence Diagram for Container Enquiry



Sequence Diagram for Login Page



6 Database Design

6.1 Description

Database Name mscit_project

Total Table 5

1) Customer
2) Container
3) Email
4) Feedback
5) Admin database

6.2 Customer Table

userid - Integer Primary Key

userphone – varchar Unique

useremail – varchar Unique

Column Name	Datatype
username	varchar
userid	integer
userage	varchar
useremail	varchar
date_of_birth	Date
usergender	varchar
userphone	varchar
password	varchar
date	varchar

Description- It Store Detail at time of Sign up / Registration

Customer Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	userid	int(100)			No	None		AUTO_INCREMENT	Change Drop More
2	username	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
3	userage	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
4	useremail	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
5	date_of_birth	date			No	None			Change Drop More
6	usergender	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
7	userphone	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
8	password	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
9	date	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More

6.3 Container Table

order_id – Integer Primary Key

userid – integer Foreign Key

Column Name	Datatype
Source	varchar
Destination	varchar
Type	varchar
size	Date
Customer_email	varchar
phonenumber	varchar
Date_and_time	varchar
name	varchar
Order_id	Integer
Cargo_weight	varchar
DOD	varchar
userid	Integer

Description:-it store all the Container Enquiry Detail

Container Table

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	source	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	2	destination	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	3	type	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	4	size	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	5	customer_email	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	6	phonenumber	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	7	Date_and_time	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	8	name	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	9	order_id	int(200)			No	None		AUTO_INCREMENT	Change Drop More
☐	10	cargo_weight	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	11	DOD	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	12	userid	int(200)			Yes	NULL			Change Drop More

6.4 Email Table

Column Name	Datatype
Receiver	varchar
Subject	varchar
Body	varchar
Date	varchar

Description - it store send email details

Email Table

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	receiver	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	2	subject	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	3	body	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	4	date	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More

6.5 Feedback Table

Column Name	Datatype
Comment	varchar
Date	varchar
Name	varchar
Phoneoremail	varchar

Description - it store feedback Detail

Feedback Table

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
☐	1	receiver	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	2	subject	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	3	body	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
☐	4	date	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More

6.6 admindatabase Table

admin – varchar password

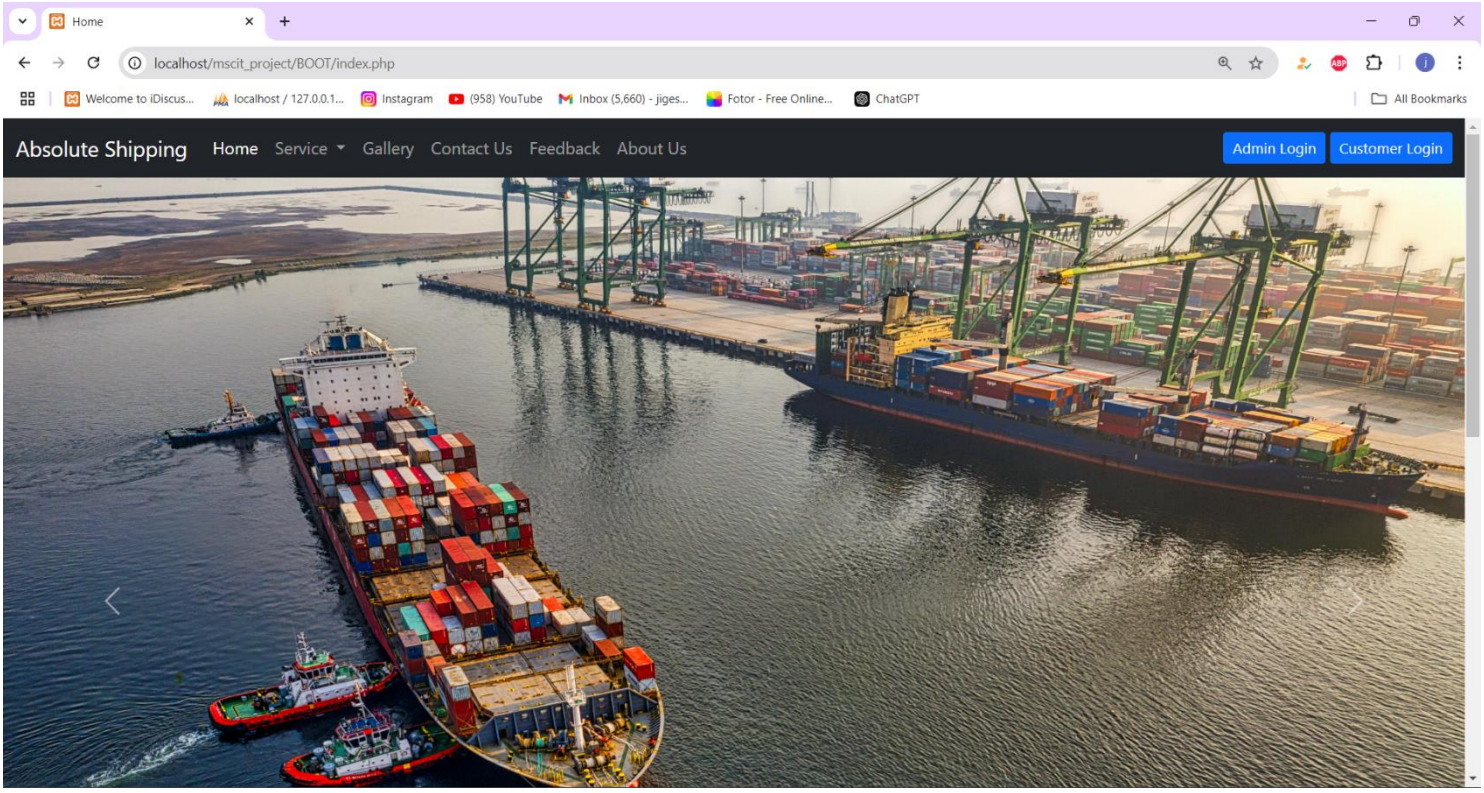
– varchar

Column Name	Datatype
admin	varchar
password	varchar

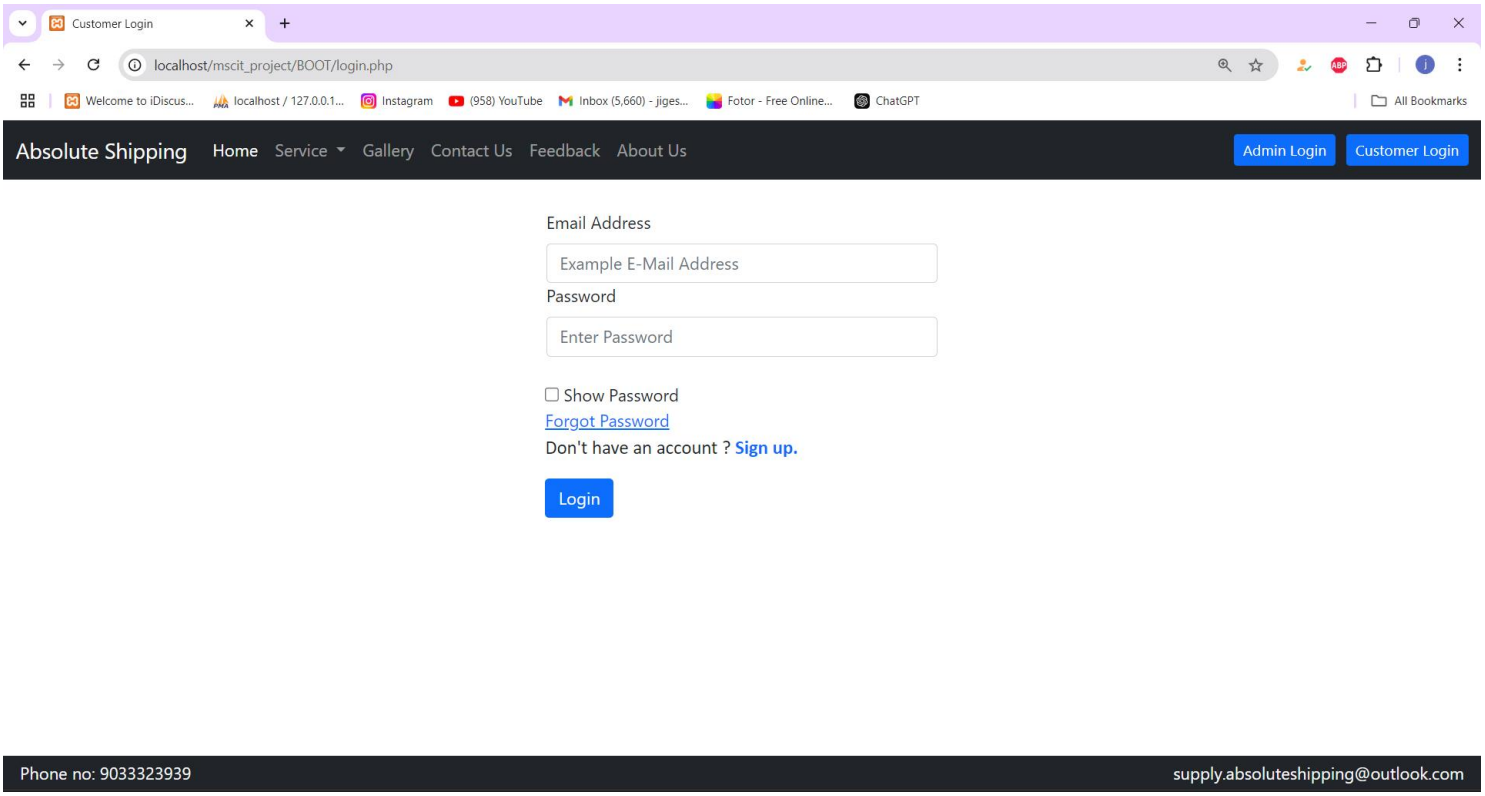
Description - it store admin username and password Detail

7 Screen Layout(Interface Design)

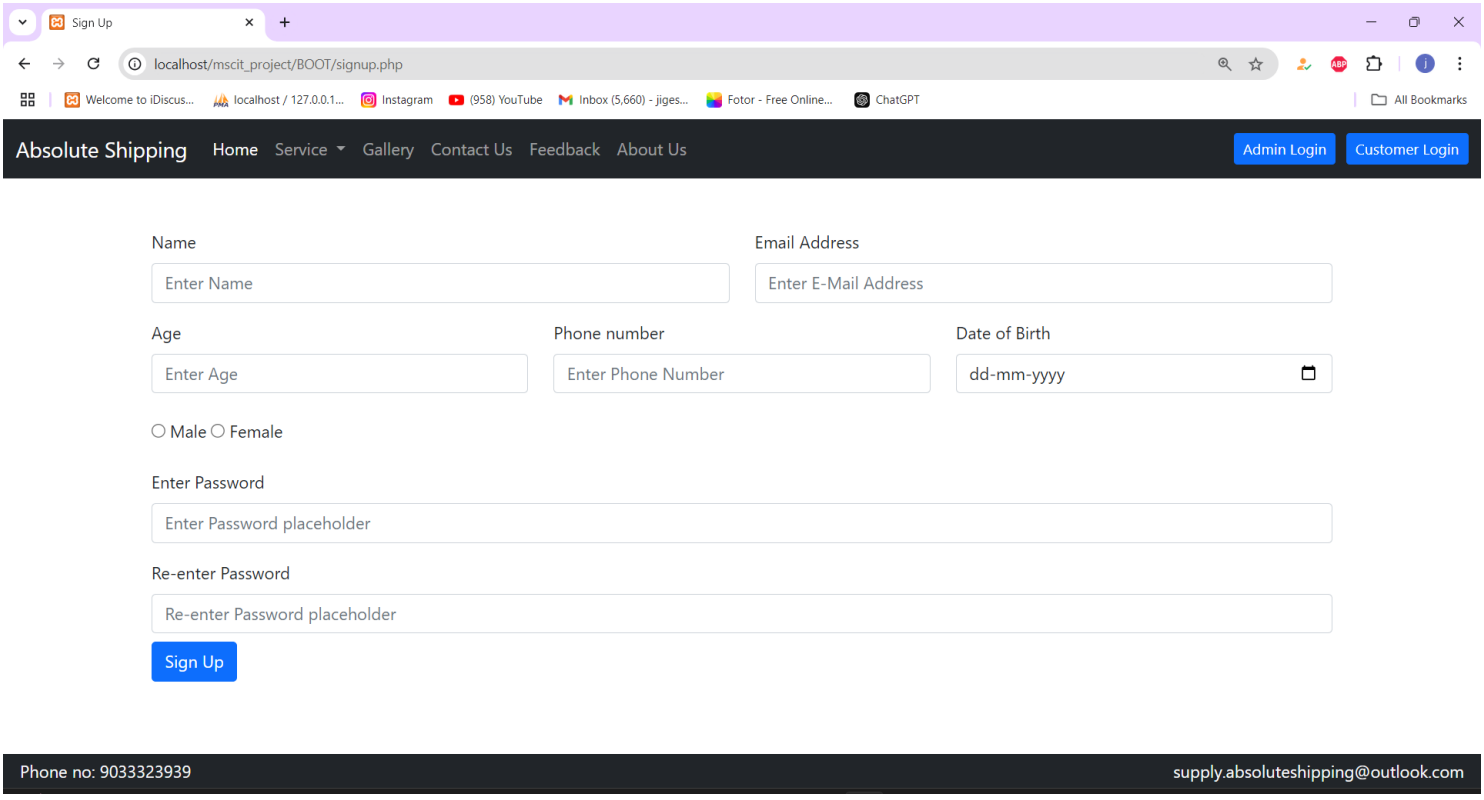
7.1 Home Page


Home
localhost/mscit_project/BOOT/index.php
Welcome to iDiscus...
localhost / 127.0.0.1...
Instagram
(958) YouTube
Inbox (5,660) - jiges...
Fotor - Free Online...
ChatGPT
All Bookmarks
Absolute Shipping
Home
Service
Gallery
Contact Us
Feedback
About Us
Admin Login
Customer Login

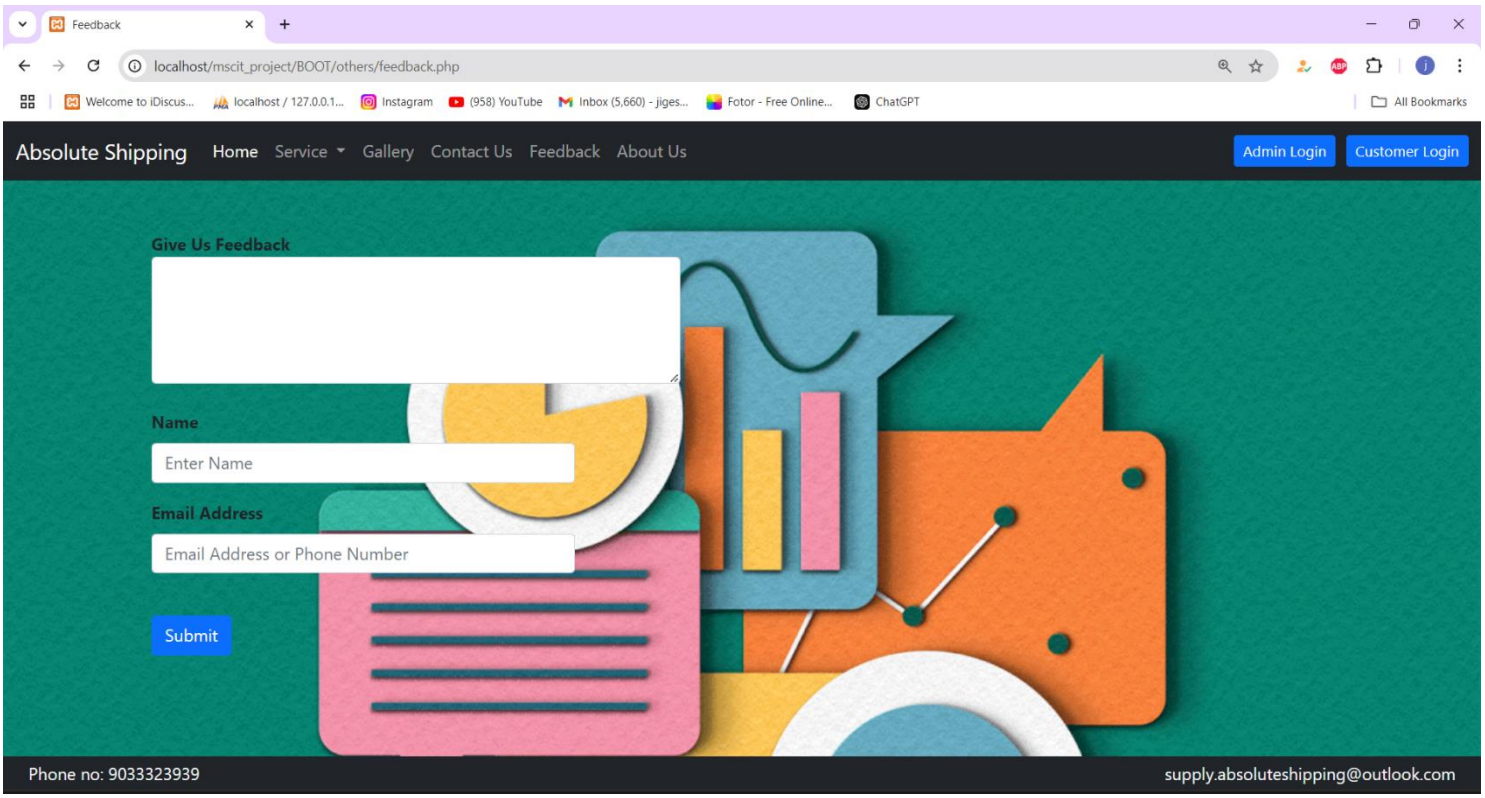
7.2 Login Page



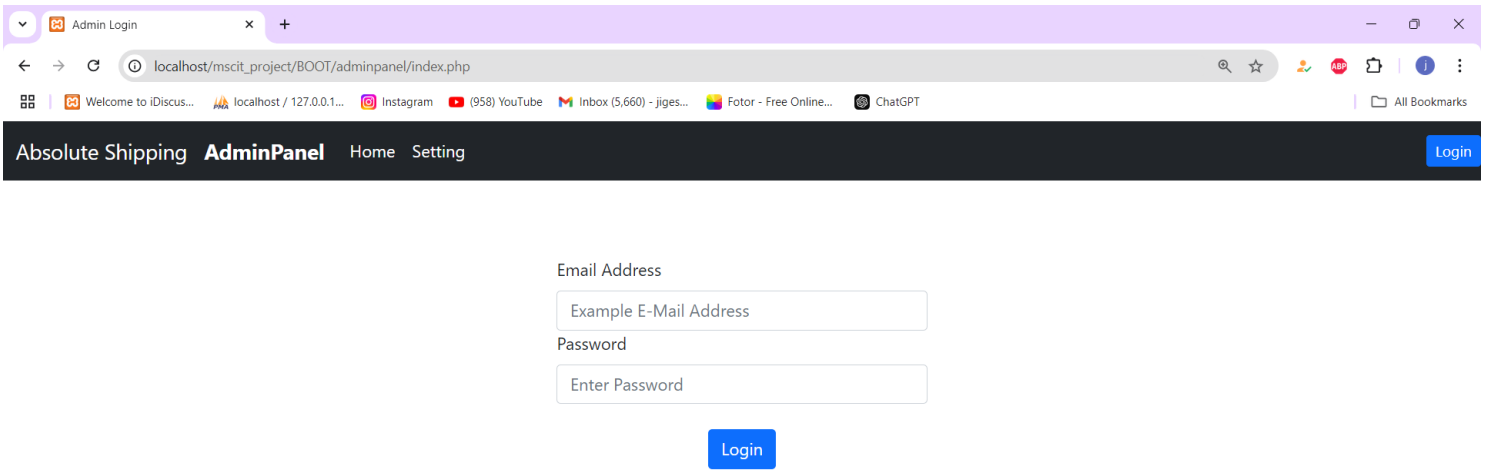
7.3 Sign Up page



7.4 Feedback Page



7.5 AdminPanel



8 Testing

8.1 Unit Testing

Unit testing is **a software development process in which the smallest testable parts of an application, called units, are individually and independently scrutinized for proper operation**. This testing methodology is done during the development process by the software developers

8.2 Interface Testing

Interface Testing is **a type of software testing type that checks the proper communication between two different software systems**

8.3 Black box Testing

Black Box Testing is a software testing method in which the internal structure/ design/ implementation of the item being tested is not knownto the tester.

8.4 White Box Testing

White Box Testing is a software testing method in which the internal structure/ design/ implementation of the item being tested is known to the tester.

8.5 Testing Document

FORM NAME : Login form			
Function Area	**Step**	**Expected output**	**Result**
Run Application	<NULL>	INVALID	Username is empty
Login	Open login Page	Login Page opened	Pass
Login	Press login button without entering username and password	Validation message should displayed	Pass
Login	Enter username and password	Successfully Logged in	Pass
Signup	Press signup button without entering details	Validation message should displayed	Pass
Signup	Enter all Details	Successfully Signup	Pass

8.6 Test Cases

FORM NAME : Login form			
FIELD	**INPUT VALUE**	**VALID/INVALID**	**OUTPUT**
Name	<NULL>	INVALID	Username is empty
	MANISH	VALID	AS PER EXCEPTED OUTPUT
E-Mail Address	<NULL>	INVALID	Password is empty
	MANISH	VALID	AS PER EXCEPTED OUTPUT

FORM NAME : Signup form			
FIELD	**INPUT VALUE**	**VALID/INVALID**	**OUTPUT**
Name	<NULL>	INVALID	Username Should not be empty
	MANISH	VALID	AS PER EXCEPTED OUTPUT
E-Mail Address	<NULL>	INVALID	Password is empty
	MANISH	VALID	AS PER EXCEPTED OUTPUT
Date of Birth	<NULL>	INVALID	Password is empty
Age	<NULL> MANISH 23	INVALID INVALID VALID	Age Should Not be Empty Enter valid age AS PER EXCEPTED OUTPUT
Phonenumber	<NULL> MANISH 23	INVALID INVALID VALID	Phonenumber Should Not be Empty Enter valid phonenumber AS PER EXCEPTED OUTPUT
Password	<NULL> MANISH	INVALID VALID	Password must be greater then 8 AS PER EXCEPTED OUTPUT

FORM NAME : Container Enquiry Form			
FIELD	**INPUT VALUE**	**VALID/INVALID**	**OUTPUT**
Source	<NULL>	INVALID	Please select an item in the list
	Selected	VALID	AS PER EXCEPTED OUTPUT
Destination	<NULL>	INVALID	Please select an item in the list
	Selected	VALID	AS PER EXCEPTED OUTPUT
Size	<NULL> Selected	INVALID VALID	Please select an item in the list AS PER EXCEPTED OUTPUT
Type	<NULL> Selected	INVALID VALID	Please select an item in the list AS PER EXCEPTED OUTPUT
Weight	<NULL> Selected	INVALID VALID	Please select an item in the list AS PER EXCEPTED OUTPUT
Date of departure	<NULL> Selected	INVALID VALID	Please select an item in the list AS PER EXCEPTED OUTPUT
Source , Destination	Selected	INVALID VALID	Source Destination cannot be same AS PER EXCEPTED OUTPUT

9 Reference

9.1 Reference

During the development of project we have used the following Web Site.

Following are the websites referred:

www.getbootstrap.com

www.youtube.com

www.guru99.com

www.studytonight.com

www.javapoint.com

www.w3schools.com