

User Experience Design Project Report

On

Online Bike Management System

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Submitted to

Department of Computer Science & Engineering

Institute of Computer Technology



Year: 2022

CERTIFICATE

This is to certify that the **User Experience Design** Project work entitled “**Online Bike Service Management**” by Manya Tripathi (Enrolment No. 20162121009), Meet Prajapati (Enrolment No. 20162121010) and Aryan Modi (Enrolment No. 20162121011) of Ganpat University, towards the partial fulfilment of requirements of the degree of Bachelor of Technology – Computer Science and Engineering, carried out by them in the CSE (BDA). The results/findings contained in this Project have not been submitted in part or full to any other University / Institute for award of any other Degree/Diploma.

Name & Signature of Internal Guide

Name & Signature of Head

Place: ICT – GUNI

Date:

ACKNOWLEDGEMENT

User Experience Design project is a golden opportunity for learning and self-development. We feel that we were very lucky to have the support and guidance of many learned faculties and professors. First we would like to thank Dr. Hemal Shah, Principal, ICT, and Prof. Dharmesh Darji, Head, ICT who gave us an opportunity to undertake this project. We are highly indebted to Mr. Bhavesh Jain for his guidance and supervision on the project “Online Bike Service Management System”. We would like to thank him for providing the necessary information and resources for this project, who despite being extraordinarily busy with academics, took time out to hear, guide and keep us on the correct path. We also thank our college for providing us with all the necessary facilities that were required by us.

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ABSTRACT

Now a day, technology is on a boost. People wish to live a luxurious life with minimum physical work. Here we provide a Web application for ‘Bike Service System’. The website will enable any bike user to search and communicate with any bike service center in the vicinity. The user can find the service center, get its location and check and select any of the services provided by the respective service center. The user can send request for pick and drop, appointment for servicing, test drive as well as accessories purchase to the dealer. The dealer processes these requests and gives a response back to the user through push messages. Online Bike Service Management Application This app also enables the user to set alarms for next servicing date, payment of insurance installment, etc. The app is provided with an extra feature of EMI calculator too. Thus we are developing an application which goes hand in hand with the new age technology and characterizes – user friendliness, in informativeness and time saving.

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Chapter 1

Introduction

1.1 Project Summary –

Online Bike Service Management project keeps a track of bike service of a customer , let the service centers be our partners and customers join us and get membership.

It is an easier and hassle free way to book bike service.

1.2 Project Scope –

The project was developed with the aim to benefit the consumers along with the small service centres. We aim to make the project extremely user-friendly and simple.

We also target to add as many as possible nearby service centers to give them an opportunity to be successful.

1.3 Objective –

- Easy to use , user friendly interface.
- Booking service in the home page.
- Quicker and better service.
- 1 tap booking and cancelling service with otp.
- Partners will get new customers.
- Membership and loyalty point features
- Reminder for bike service
- Nearest service centres suggestion through maps.
- Providing referral codes so that old customers can invite new cus

1.4 Literature Review/Background Study

With the increasing demand of online services , people have started looking for online services of motor vehicles and bikes.

Recently during the covid times , people opted more for online services.

In a research that was conducted people were ready to spend more money and get door to door service instead of themselves going out. Hence in such current scenario , our project will be a success.

Chapter 2

System Requirement Study

2.1 Hardware and Software Characteristics –

Hardware Requirements –

- Working Laptop
- 2 GB or more RAM.
- Processor 32/64 bit

Software Requirements –

- Windows 7 or higher
- Web Browser – Chrome/Firefox/Microsoft Edge
- Internet Connection

Chapter 3

System Analysis

3.1 Study of Current System and Requirement of this System –

Current System Advantages –

- Some sites are Giving subscriber mode for their regular users
- Virtual Chat assistant
- Some site are allow customer to directly book services through home page
- Customer can view service listed in website for there Bike

Disadvantages of Current Systems –

- No real time tracking of bike service provided by all sites.
- Loyalty points are not given.
- Even if only few components require service , sometimes service centres charge for the complete service.
- Lack of transparency.

Requirements of this system –

- The already existing systems lack in a lot of way . They have way more disadvantages due to which user interaction is not upto the mark.

3.2 Data Dictionary

Table: **user_details**

Columns:

User_id	int AI PK
FirstName	varchar(20)
LastName	varchar(20)
Email	varchar(30)
PhoneNo	varchar(20)
Password	varchar(10)
username	varchar(20)

Table: **patner_details**

Columns:

P_id	int AI PK
ServiceCenterName	varchar(30)
OwnerName	varchar(30)
Email	varchar(30)
ContactNo	varchar(20)
Address	varchar(30)
Status	int
Password	varchar(20)
identification	varchar(10)

Table: **product**

Columns:

pid	int AI PK
product_name	varchar(30)
url	varchar(500)
imgUrl	varchar(500)

Table: **home_image**

Columns:

id	int PK
urlimg	varchar(500)

Table: booking

Columns:

bid	int AI PK
serviceCenter	varchar(30)
Email_id	varchar(30)
Brand	varchar(30)
Phone_No	varchar(12)
Service	varchar(200)
status	int
Request_date	date
User_id	int
cost	int

Table: total_analysis

Columns:

No_users	int
No_Patners	int
Booking_Request_Pending	int
PatnerValidationPending	int
id	int

3.3 Modules and Their Description of System

Our project is based on 3 modules.

- 1- Admin Module – Admin login along with validation of partners , add products in shop and view user details. Manage all other admin roles.
- 2- User Module - allows users to create a new account , login , book bike services , view nearby partners , view their own profile and shop products.
- 3- Partnership Module – It allows bike service centres to become our partners , after validation from admin view booking requests from users and update services.

Chapter 4

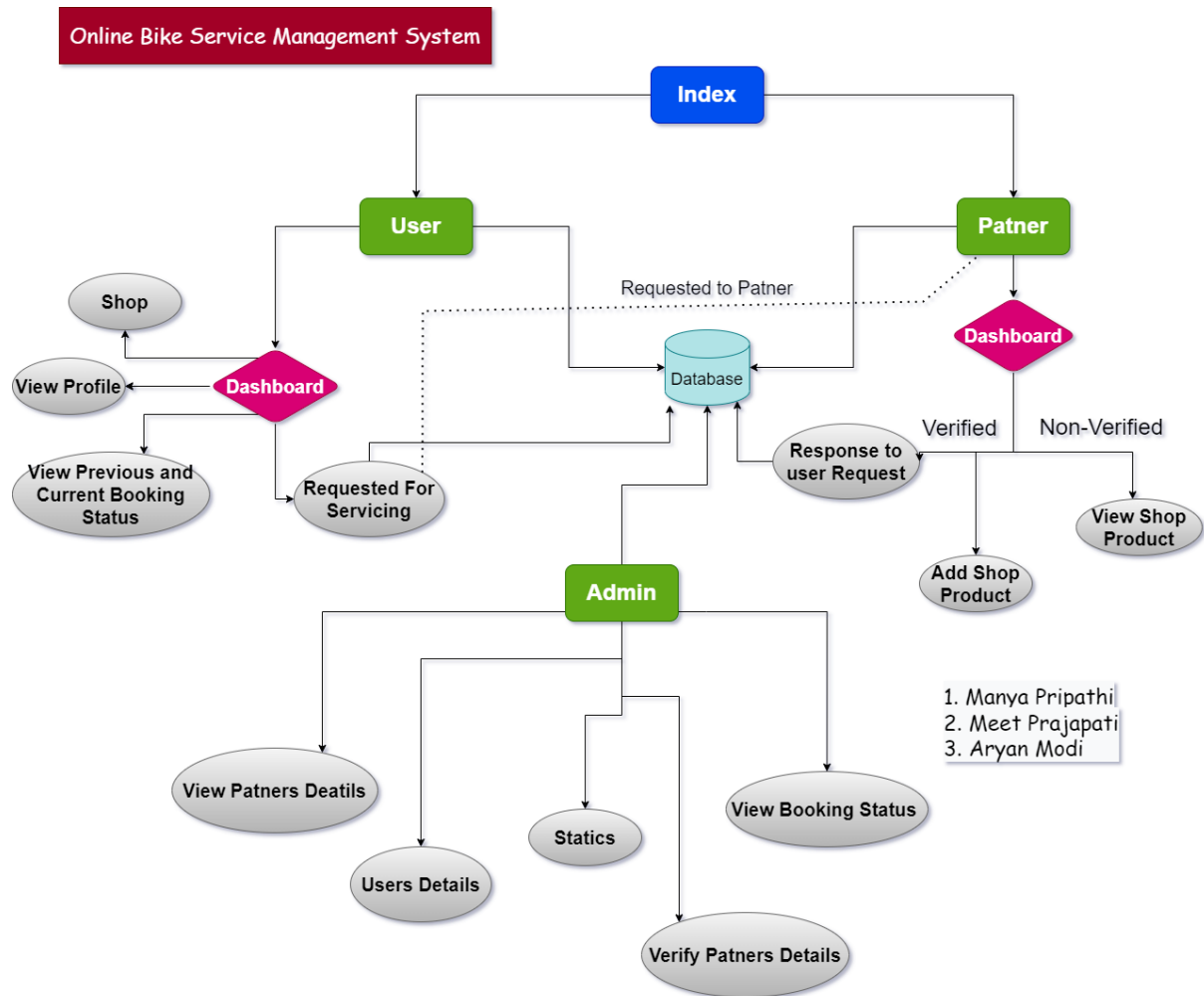
System Analysis

4.1 Design Pseudocode or Algorithm for Method or Operation

Algorithm –

- The project starts with index page which includes map and taskbar along with partnership program.
- The user/admin can sign in or login with the use of filter.
- After signing in the user can book services , view previous booking status , check their profile and shop for parts. It can also sign out.
- The admin login leads to statistics of the website.
- Admin can manage requests of partners , add products in shop and view user details and booking status.
- New service centres can become our partner using the home page button .
- It will become our official partner as soon as the admin validates them.
- After verification , they will be able to manage requests from users as well as add their products in shop.

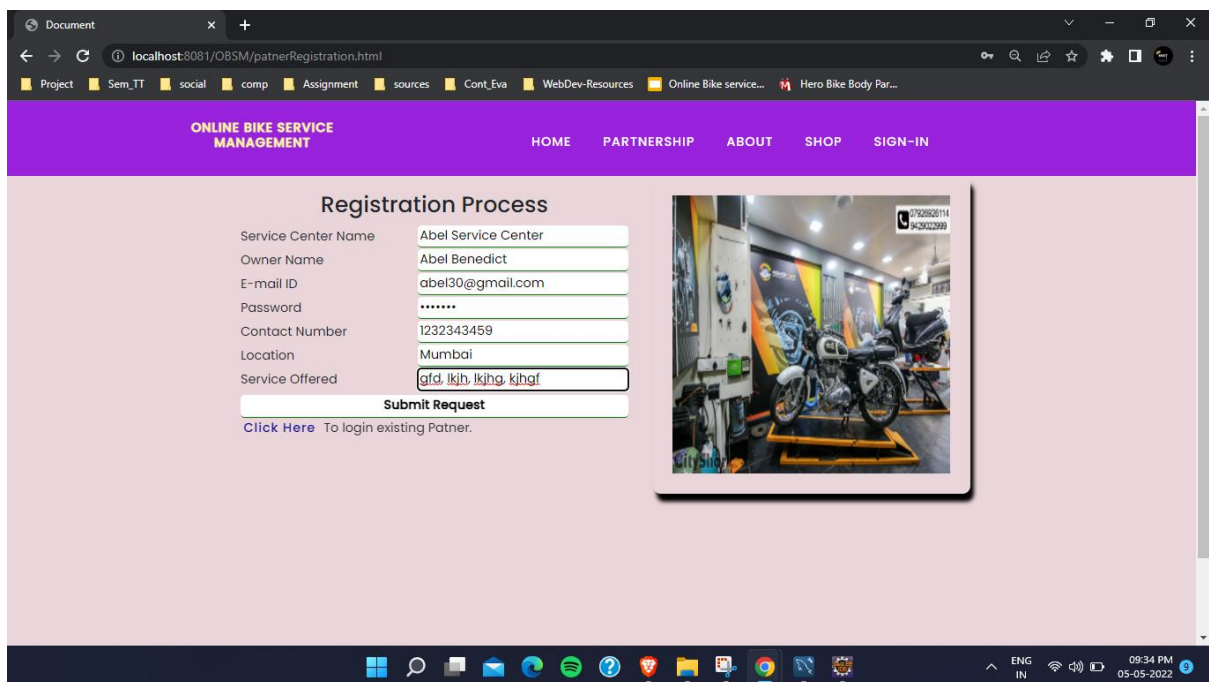
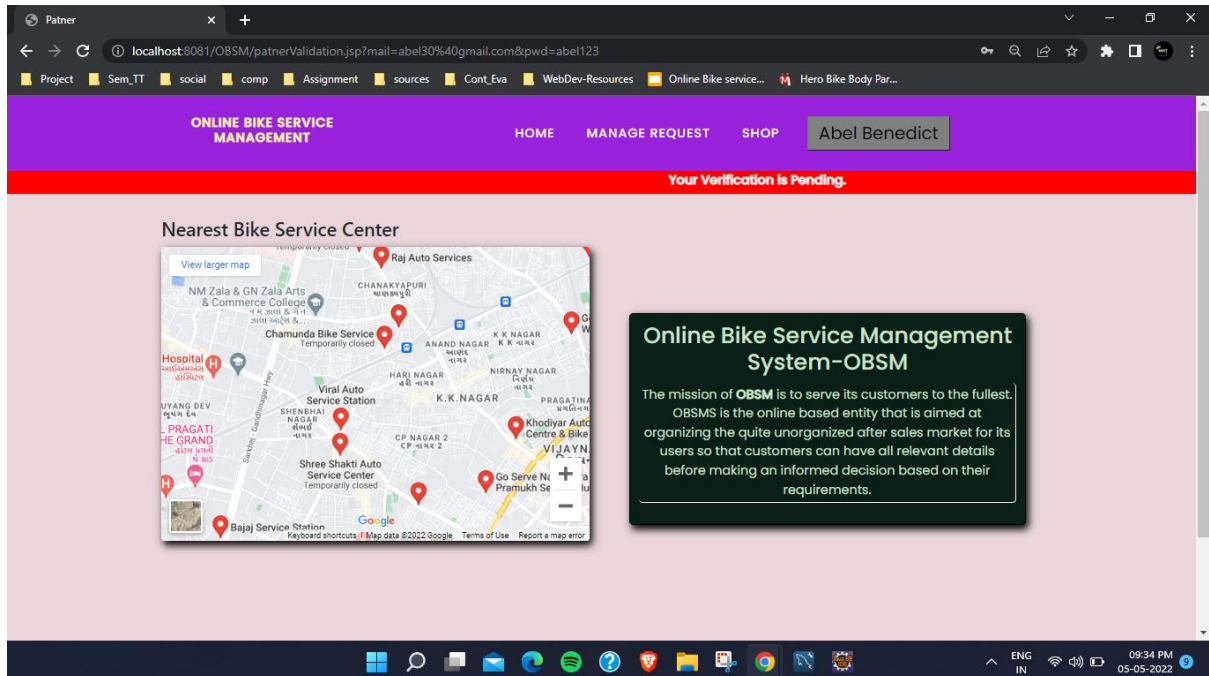
4.2 Flow Chart Diagram

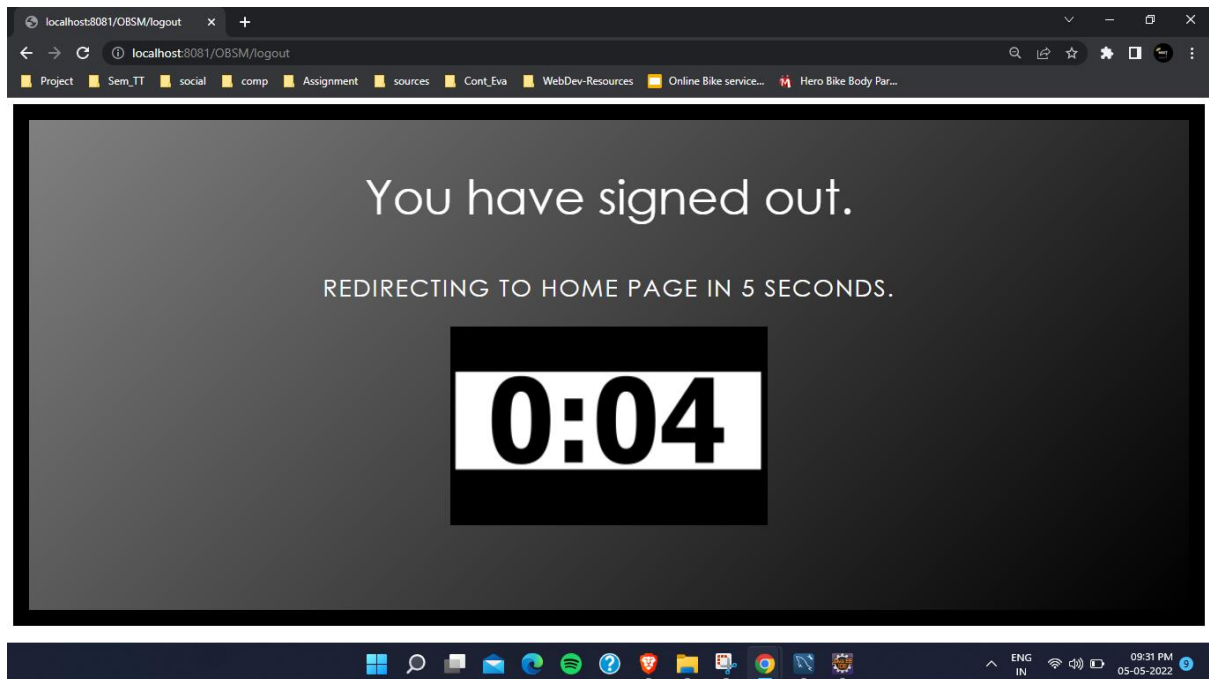
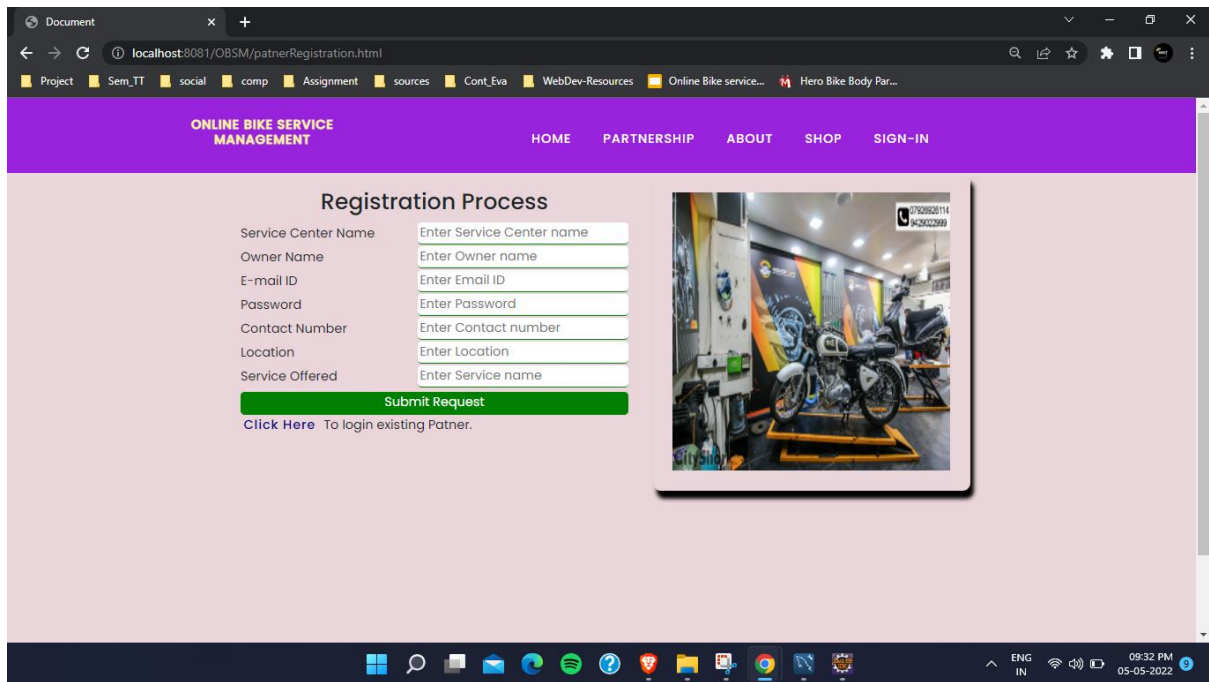


Chapter 5

Screenshots

5.1 Frontend/Client/End User Side Screenshots –





Booking

localhost8081/OBSM/user_viewBooking.jsp

Project Sem_TT social comp Assignment sources Cont_Eva WebDev-Resources Online Bike service... Hero Bike Body Par...

ONLINE BIKE SERVICE MANAGEMENT

HOME ABOUT SHOP Aakash

Service ID	Service Center	Email	Brand	Phone Number	Status	Request Date	Cost
19	Panchal Bike Service Center	aakash20@gmail.com	SUZUKI	6354792874	Not Complete	2022-05-05	-

ENG IN 09:31 PM 05-05-2022

Book Service

localhost8081/OBSM/bookService.jsp?bike=SUZUKI&ph=6354792874&mail=aakash20%40gmail.com&serv=Panchal+Bike+Service+Center

Project Sem_TT social comp Assignment sou

localhost8081 says

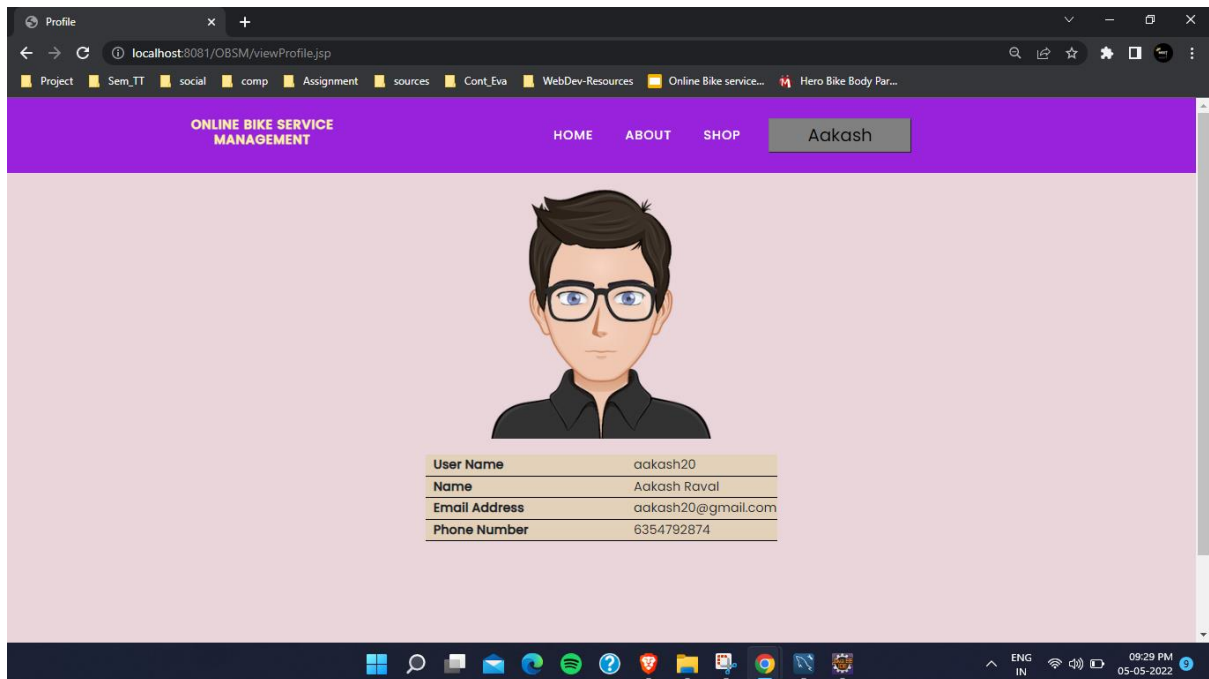
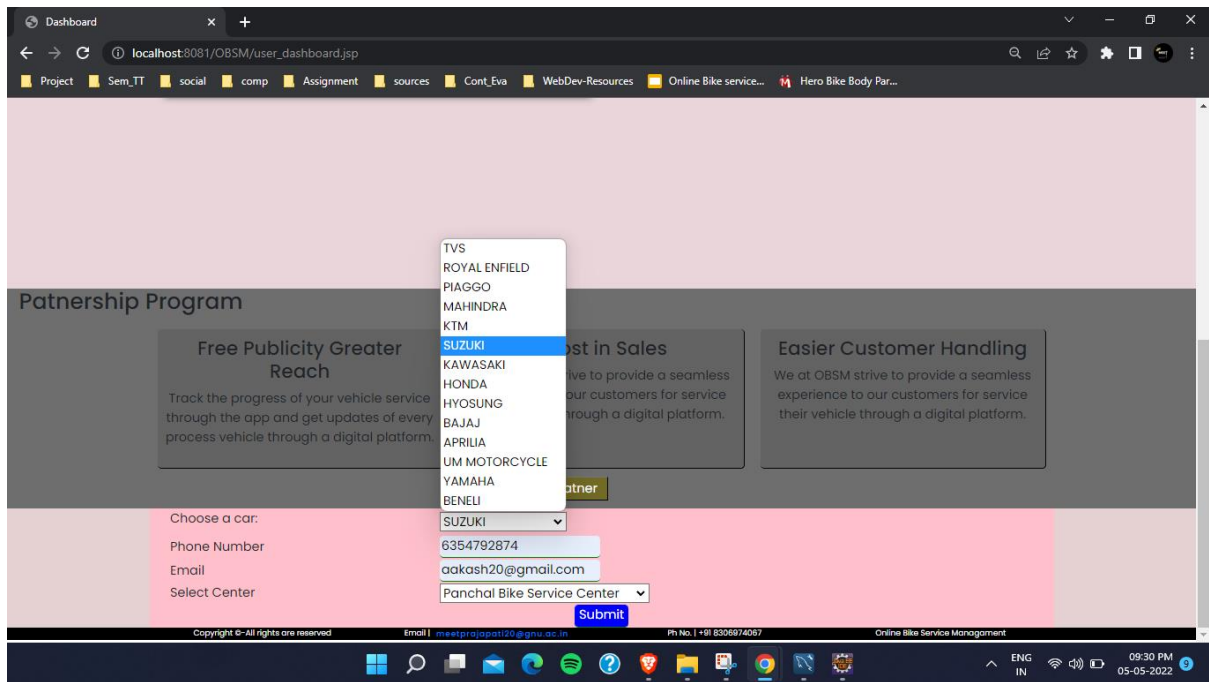
Check Your Service Status in 'Booking Status'

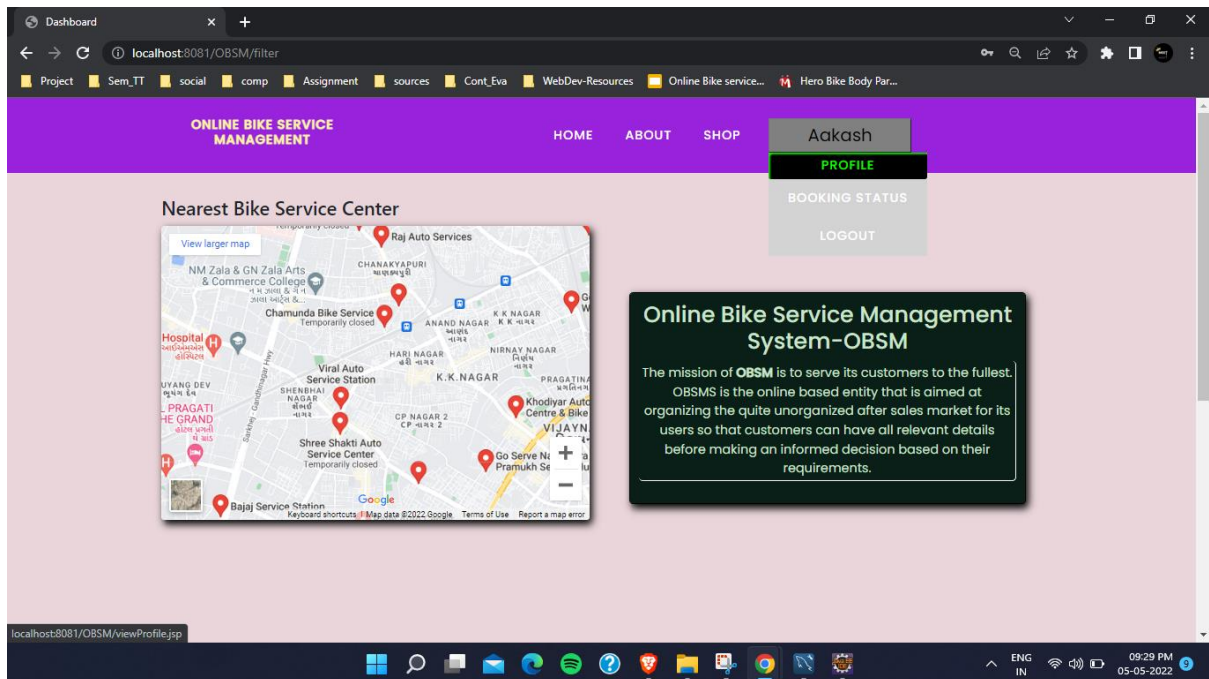
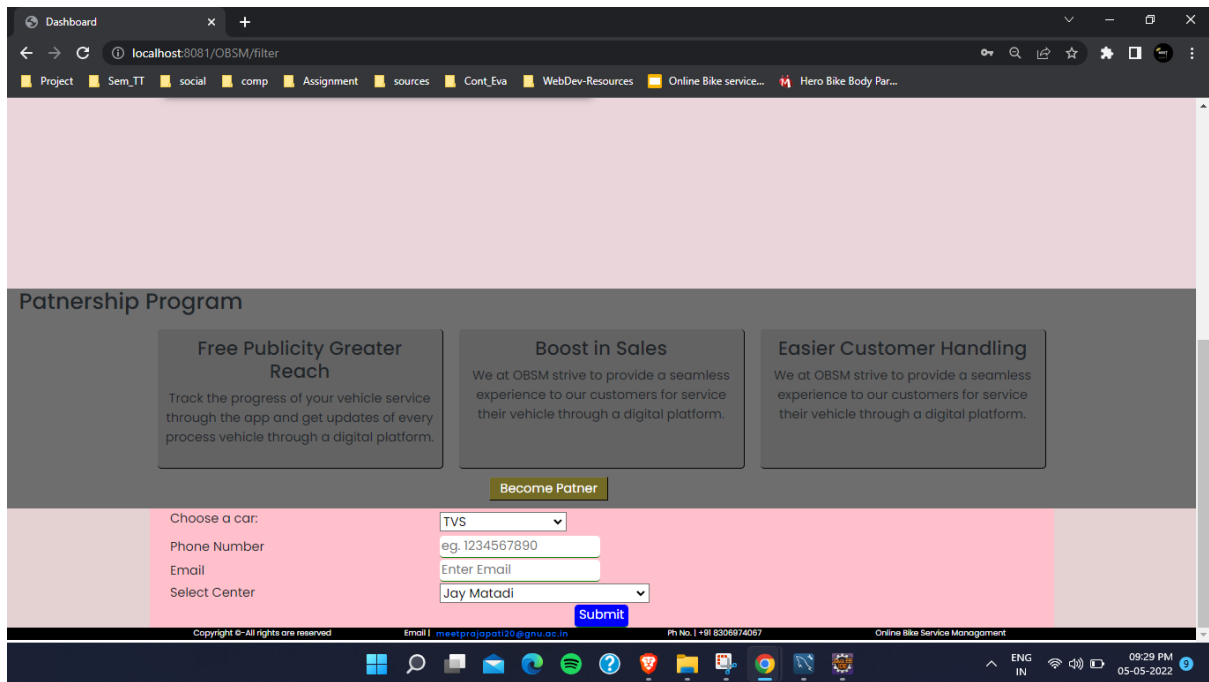
OK

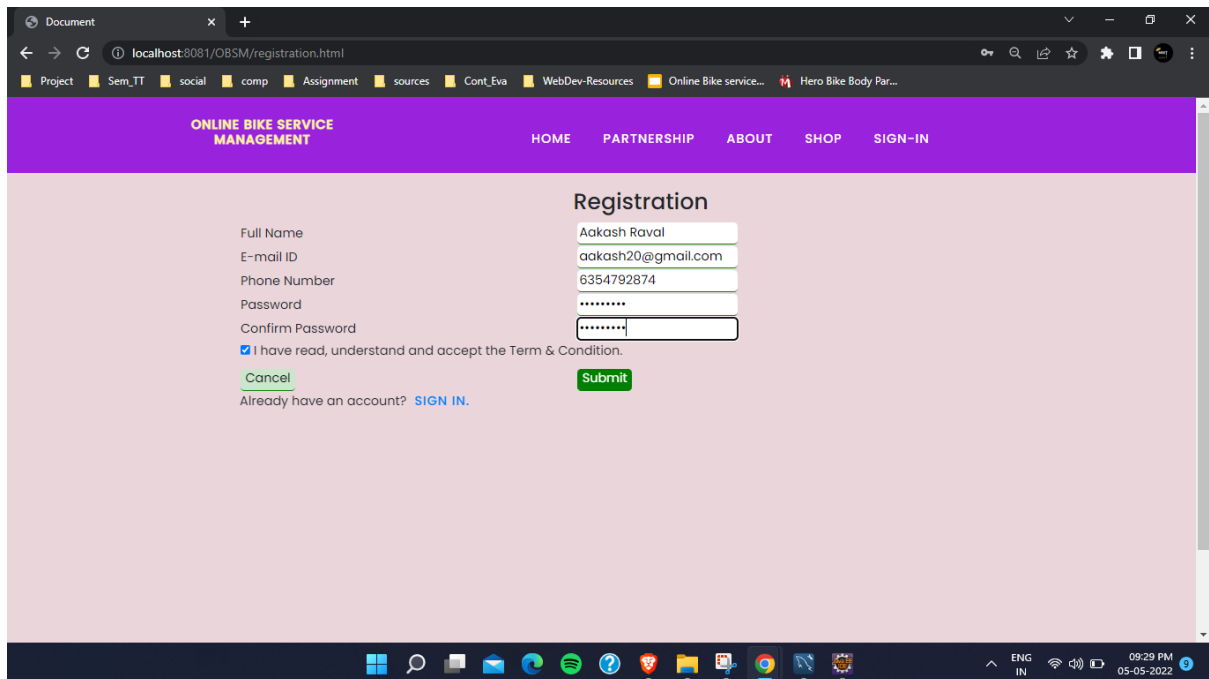
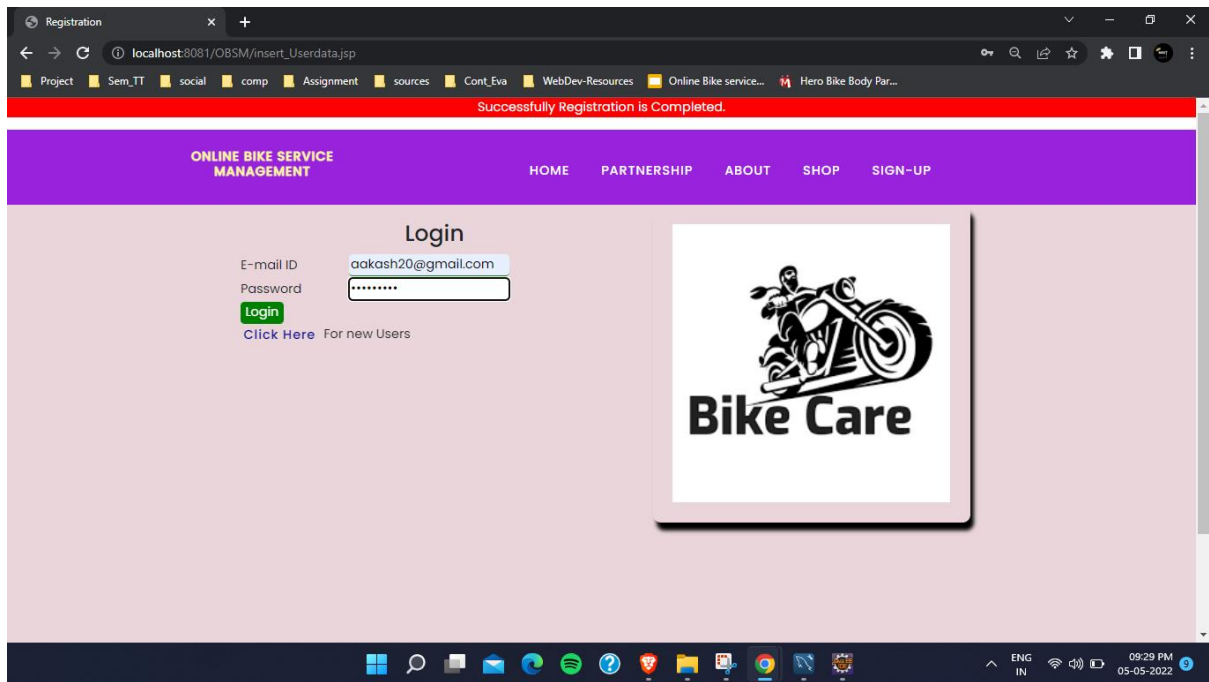
ero Bike Body Par...

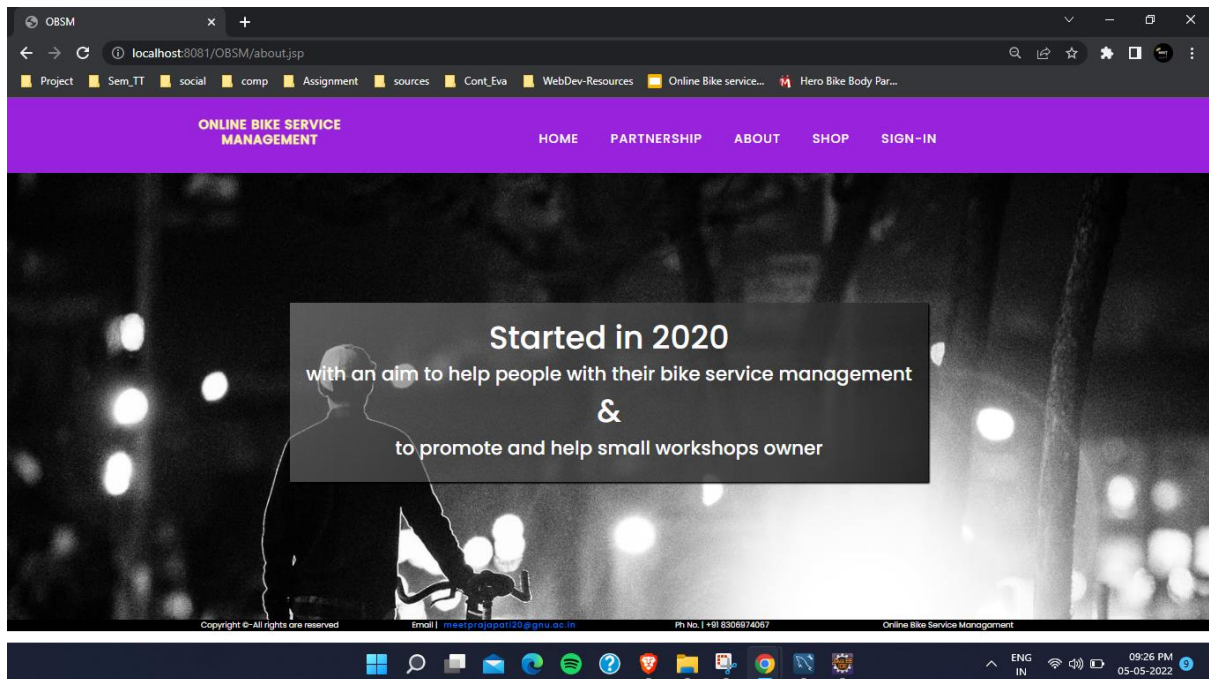
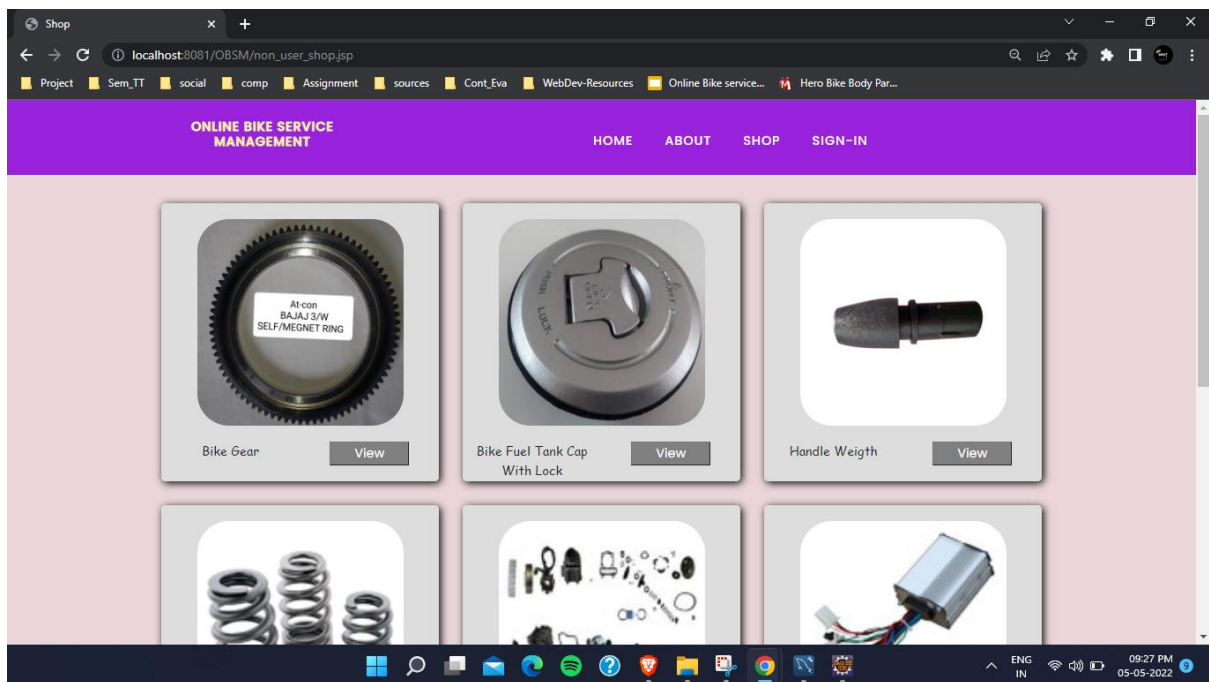
Waiting for maps.googleapis.com...

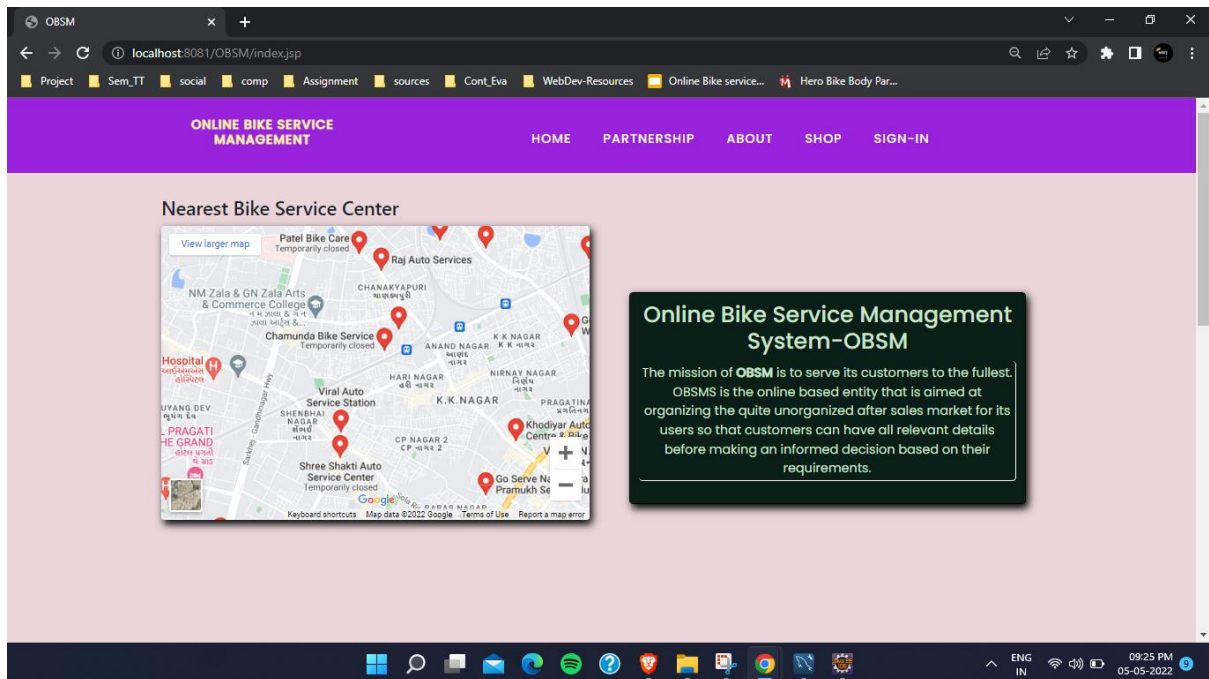
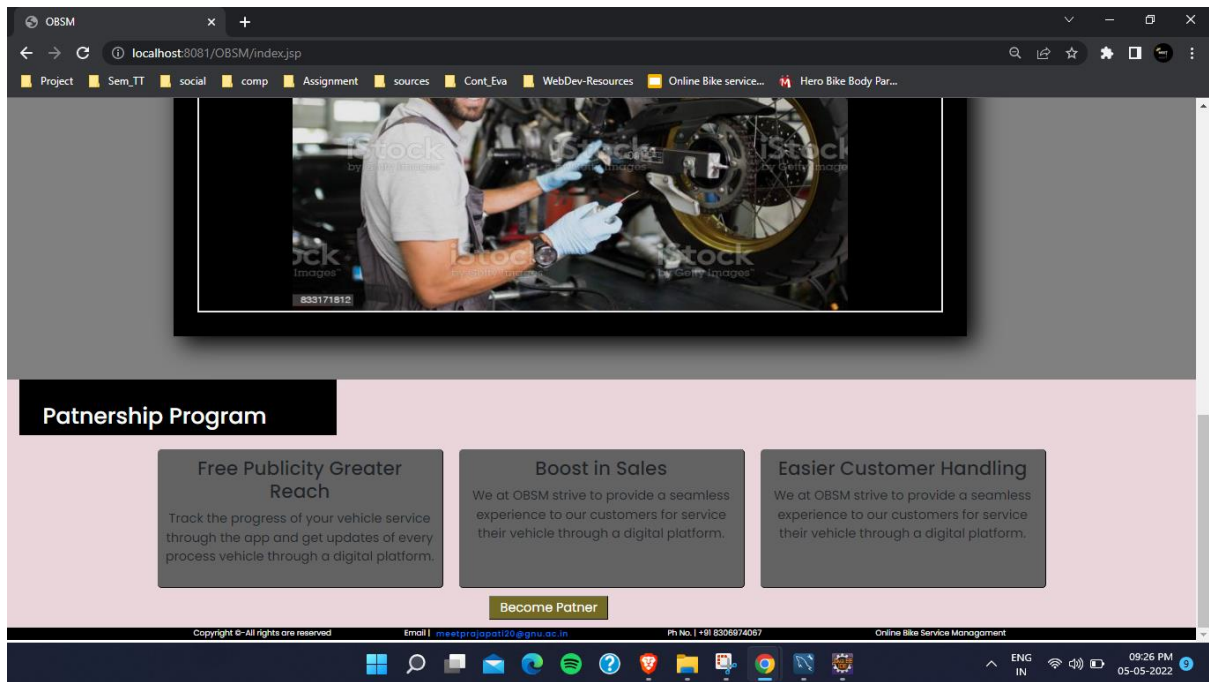
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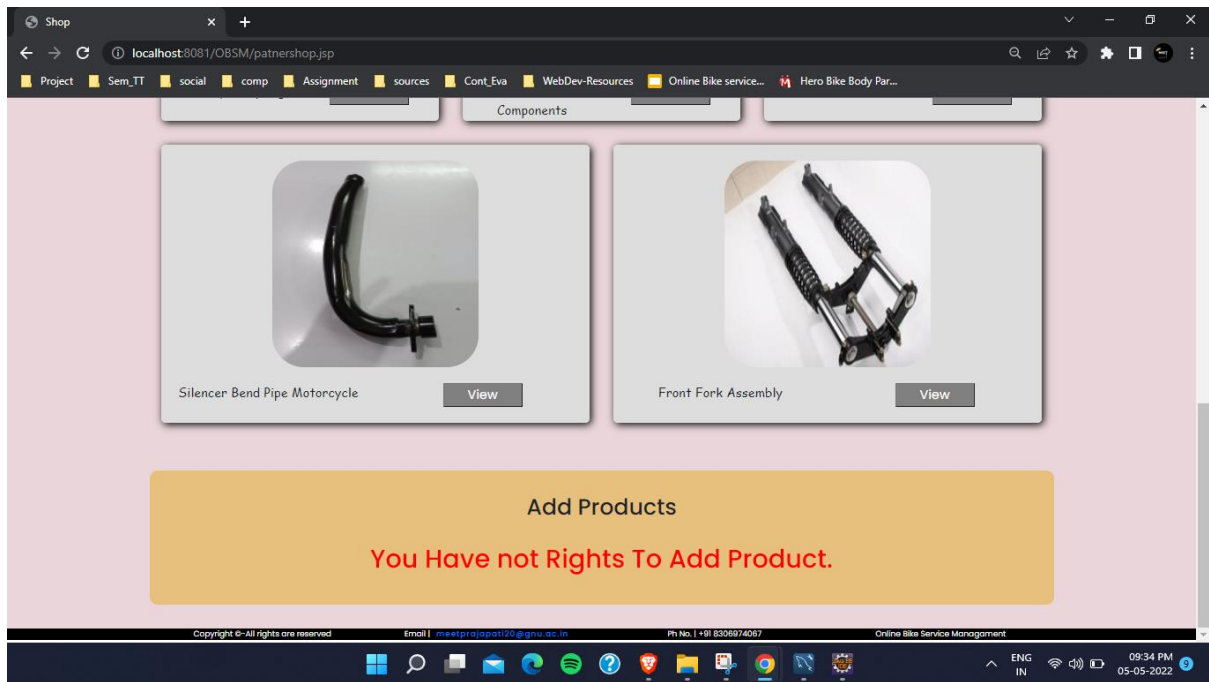




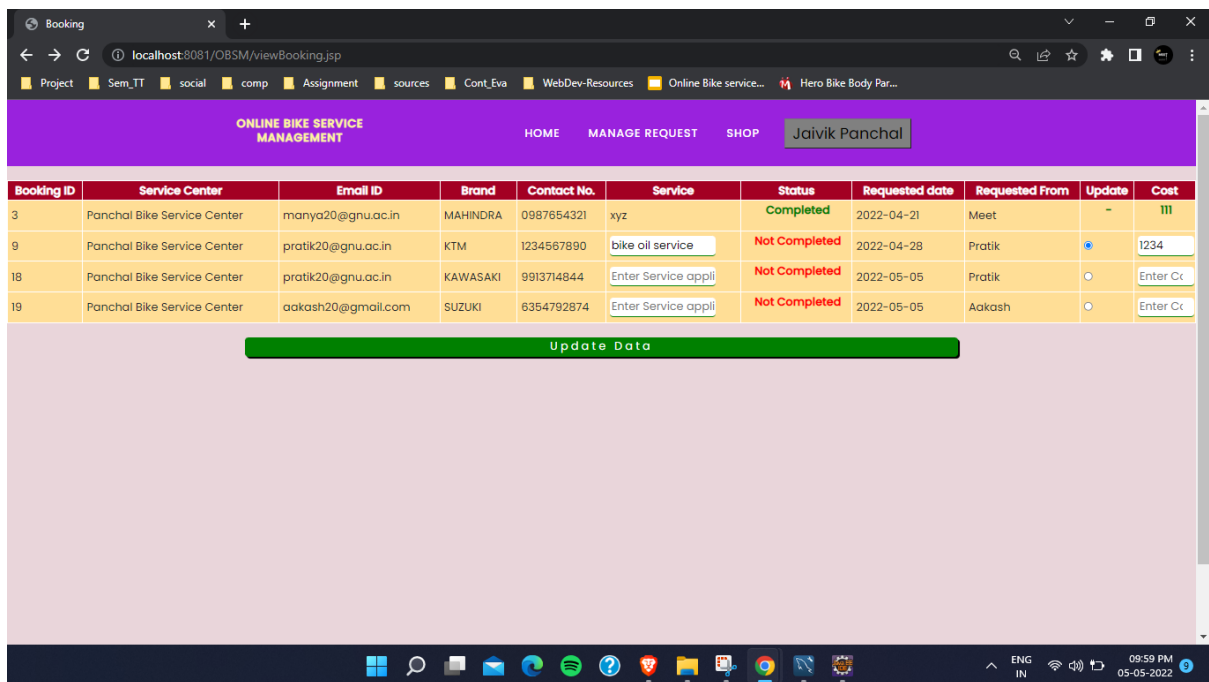








Partner Side –



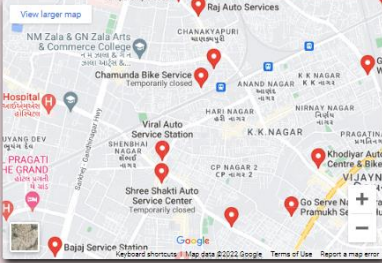
Patner

localhost:8081/OBSM/patnerValidation.jsp?mail=jp%40bike.com&pwd=jaivik123

Project Sem TT social comp Assignment sources Cont_Eva WebDev-Resources Online Bike service... Hero Bike Body Par...

ONLINE BIKE SERVICE MANAGEMENT HOME MANAGE REQUEST SHOP Jaivik Panchal

Nearest Bike Service Center



Online Bike Service Management System-OBSM

The mission of **OBSM** is to serve its customers to the fullest. OBSM is the online based entity that is aimed at organizing the quite unorganized after sales market for its users so that customers can have all relevant details before making an informed decision based on their requirements.

Total Request Pending
3

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Booking

localhost:8081/OBSM/updatestatus.jsp

Project Sem TT social comp Assignment sources Cont_Eva WebDev-Resources Online Bike service... Hero Bike Body Par...

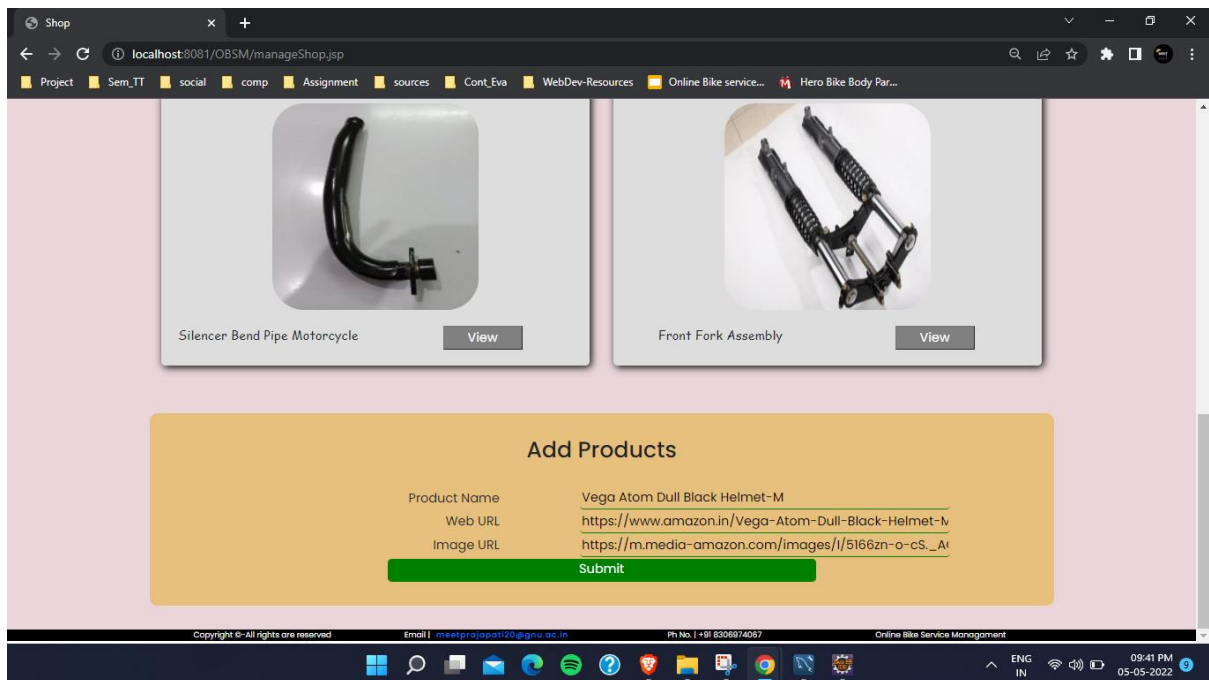
ONLINE BIKE SERVICE MANAGEMENT HOME MANAGE REQUEST SHOP Jaivik Panchal

Booking ID	Service Center	Email ID	Brand	Contact No.	Service	Status	Requested date	Requested From	Update	Cost
3	Panchal Bike Service Center	manyaz20@gnu.ac.in	MAHINDRA	0987654321	xyz	Completed	2022-04-21	Meet	-	111
9	Panchal Bike Service Center	pratik20@gnu.ac.in	KTM	1234567890	bike oil service	Completed	2022-04-28	Pratik	-	1234
18	Panchal Bike Service Center	pratik20@gnu.ac.in	KAWASAKI	9913714844	Enter Service appli	Not Completed	2022-05-05	Pratik	<input type="radio"/>	Enter Ct
19	Panchal Bike Service Center	aakash20@gmail.com	SUZUKI	6354792874	Enter Service appli	Not Completed	2022-05-05	Aakash	<input type="radio"/>	Enter Ct

Update Data

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5.2 Backend/Admin Side Screenshots



Profile

localhost:8081/OBSM/userDetails.jsp#table2

15	MMM Service Center	nirajbhil20@gmail.com	BENELI	9876543210	-	Not Completed	2022-05-05	Niraj	-
16	Topper Service Center	nirajbhil20@gmail.com	HYOSUNG	9876543210	-	Not Completed	2022-05-05	Niraj	-
17	Jay Shree Ram Service Center	pratik20@gnu.ac.in	MAHINDRA	1239874560	-	Not Completed	2022-05-05	Pratik	-
18	Panchal Bike Service Center	pratik20@gnu.ac.in	KAWASAKI	9913714844	-	Not Completed	2022-05-05	Pratik	-
19	Panchal Bike Service Center	aakash20@gmail.com	SUZUKI	6354792874	-	Not Completed	2022-05-05	Aakash	-
1	Aryan Service	meetprajapati20@gnu.ac.in	BAJAJ	9904130728	Oil Change	Completed	2022-04-10	Meet	500
3	Panchal Bike Service Center	manya20@gnu.ac.in	MAHINDRA	0987654321	xyz	Completed	2022-04-21	Meet	111
8	Jay Matadi Jay Shree Ram	manya20@gnu.ac.in	HONDA	9182736456	bike oil service	Completed	2022-04-28	Meet	1000
			UM		bike oil	Completed			5000

Profile

localhost8081/OBSM/userDetails.jsp

Project Sem_TT social comp Assignment sources Cont_Eva WebDev-Resources Online Bike service... Hero Bike Body Par...

ONLINE BIKE SERVICE MANAGEMENT

HOME MANAGE REQUEST USER MANAGE SHOP LOGOUT

USER DETAILS BOOKING STATUS

Users Details

User ID	FirstName	LastName	Email	Contact No.	username
1	Meet	Prajapati	meetprajapati20@gnu.ac.in	8306974067	meetprajapati20
2	Niraj	Bhil	nirajbhil20@gmail.com	9904130728	nirajbhil20
12	Ritu	Prajapati	ritu20@gnu.ac.in	9913714844	ritu20
13	Pratik	Patel	pratik20@gnu.ac.in	1234567890	pratik20
14	Manya	Tripathi	manya20@gnu.ac.in	09904130728	manya20
15	Aryan	Modi	aryan20@gmail.com	1928374650	aryan20
16	Krupal	Patel	krupalpatel20@gnu.ac	1324354667	krupalpatel20
17	Smeet	Patel	smeet20@gnu.ac.in	1239874560	smeet20
18	Ragav	Patel	r234@gmail.com	567890421	r234
19	abc	def	abcdef@gmail.com	09904130728	abcdef
20	Raj	Patel	raj@gmail.com	0987654321	raj
21	Jay	Sapra	jaysapra20@gmail.com	9876543211	jaysapra20
22	Rahul	Makwana	rahul20@gmail.com	5566447733	rahul20
23	Mahi	Kuschbhai	mahi20@gmail.com	1188335522	mahi20
24	Aakash	Raval	aakash20@gmail.com	6354792874	aakash20

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Booking

localhost8081/OBSM/updatestatus

Project Sem_TT social comp Assignment sources Cont_Eva WebDev-Resources Online Bike service... Hero Bike Body Par...

15	Shradha Automobiles	Shradha Kapoor	sk123@gmail.com	9876543765	Surat	Not Complete	<input type="checkbox"/>
16	Lakshya Honda	Meet Prajapati	meet123@gmail.com	7893456987	Lucknow	Not Complete	<input type="checkbox"/>
1	Jay Matadi	Shiv Shambhu	shivnadan20@gmail.com	1234567890	Mehsana	Complete	
2	Aryan Service	Aryan	aryan21@gmail.com	8976548761	Visnagar	Complete	
3	Panchal Bike Service Center	Jaivik Panchal	jp@bike.com	1239874561	Haldwani	Complete	
4	ICT Service Center	Manya Tripathi	ictgnu@gmail.com	5647382910	ahmdabad	Complete	
5	MMM Service Center	Beena Rana	mmm@service.com	1234567899	Gandhinagar	Complete	
6	Jay Shree Ram Service Center	Ram Chaudhary	ram@jayshreeram.com	0192874655	Ayodhya	Complete	
7	abcdefg	abc def	absdef@gmail.com	1234567890	asdfghjkl	Complete	
8	Hari Om Bike Care	Om rathod	omrathod@gmail.com	1123345566	Ghatlodiya, Ahmedabad	Complete	
11	Topper Service Center	Manasvi Patel	topp20@gmail.com	2244336655	Gandhinagar	Complete	
13	Yash Bike Service Center	Yash Rawat	yash20@gmail.com	6644552233	Rajkot	Complete	
17	Abel Service Center	Abel Benedict	abel30@gmail.com	1232343459	Mumbai	Complete	

Update Data

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Booking

localhost:8081/OBSM/manageRequest.jsp

Project Sem_TT social comp Assignment sources Cont_Eva WebDev-Resources Online Bike service... Hero Bike Body Par...

MANAGEMENT HOME MANAGE REQUEST USER MANAGE SHOP LOGOUT

Patner ID	Service Center Name	Owner Name	Email	Contact No.	Address	Status	Update
9	Venus Bike Care	Vimal Kesari	v2service@gmail.com	9988776655	Mehsana	Not Complete	<input type="checkbox"/>
10	Khodiyar Bike Care	Maan Patel	khodiyar@gmail.com	5544663377	Haldwani	Not Complete	<input type="checkbox"/>
12	Valo Bike Care	Krupal Patel	valokp21@gmail.com	3457896547	Patan	Not Complete	<input type="checkbox"/>
14	Karnavati Bikes	Anupam Prajapati	karnavati2@gmail.com	2233435687	Ahmdabad	Not Complete	<input type="checkbox"/>
15	Shradha Automobiles	Shradha Kapoor	sk123@gmail.com	9876543765	Surat	Not Complete	<input type="checkbox"/>
16	Lakshyaa Honda	Meet Prajapati	meet123@gmail.com	7893456987	Lucknow	Not Complete	<input type="checkbox"/>
17	Abel Service Center	Abel Benedict	abel30@gmail.com	1232343459	Mumbai	Not Complete	<input type="checkbox"/>
1	Jay Matadi	Shiv Shambhu	shivnadan20@gmail.com	1234567890	Mehsana	Complete	<input type="checkbox"/>
2	Aryan Service	Aryan	aryan21@gmail.com	8976548761	Visnagar	Complete	<input type="checkbox"/>

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Admin-Dashboard

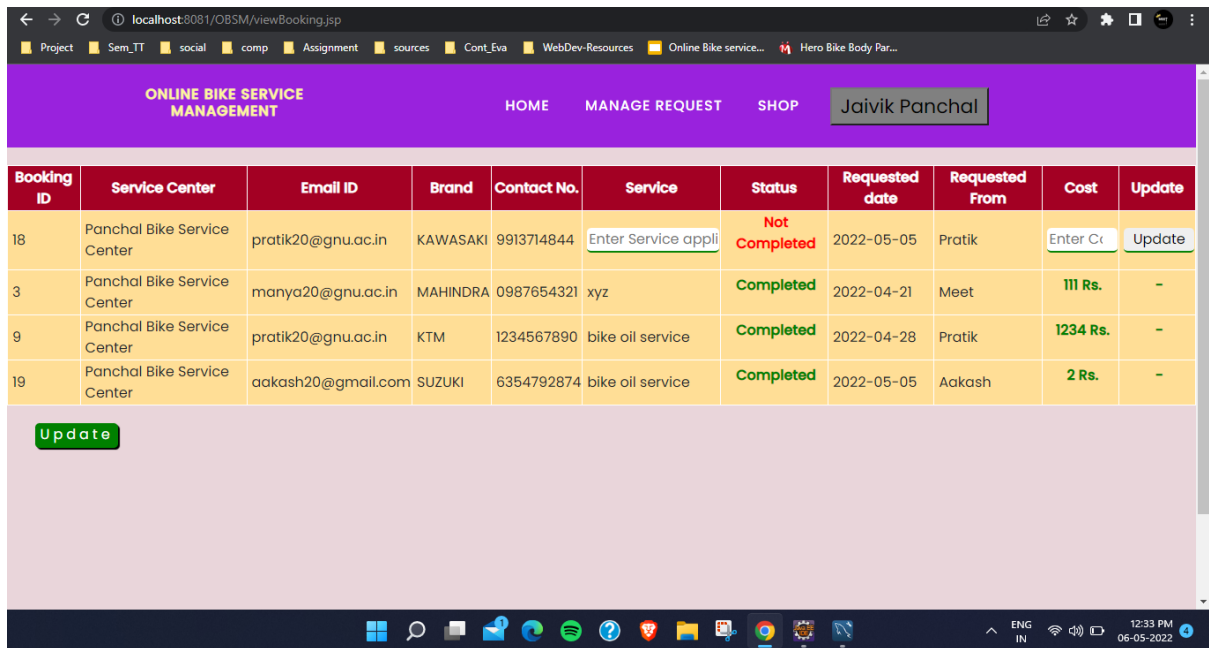
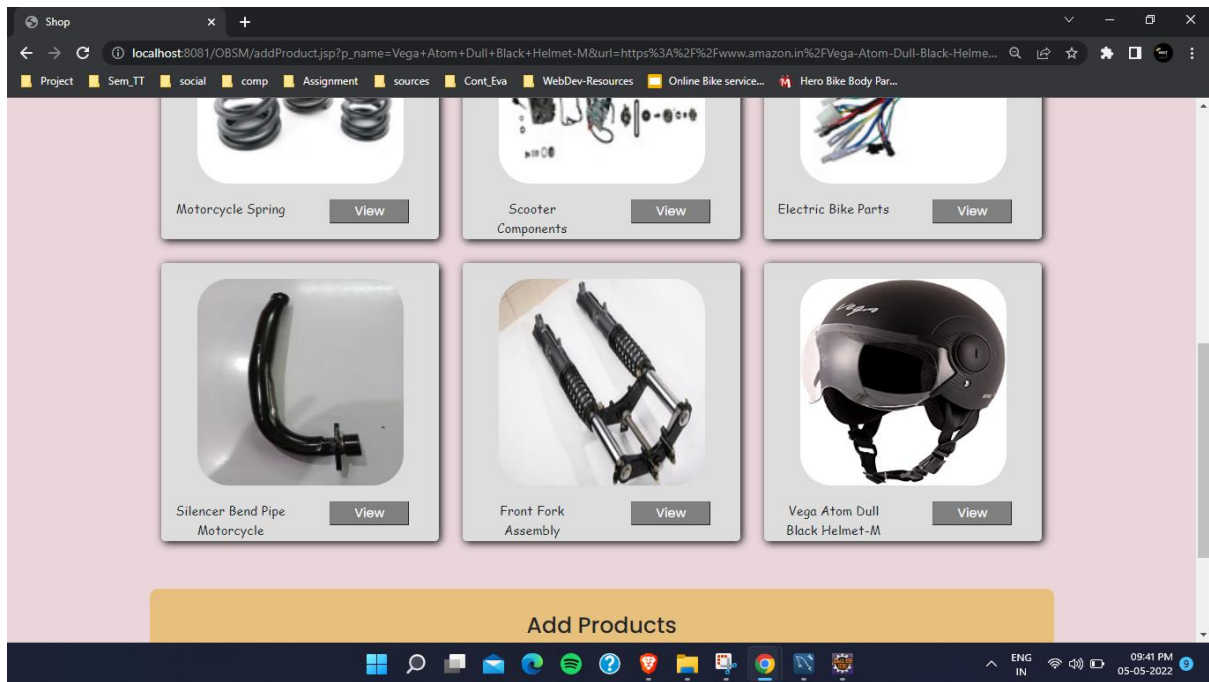
localhost:8081/OBSM/filter

Project Sem_TT social comp Assignment sources Cont_Eva WebDev-Resources Online Bike service... Hero Bike Body Par...

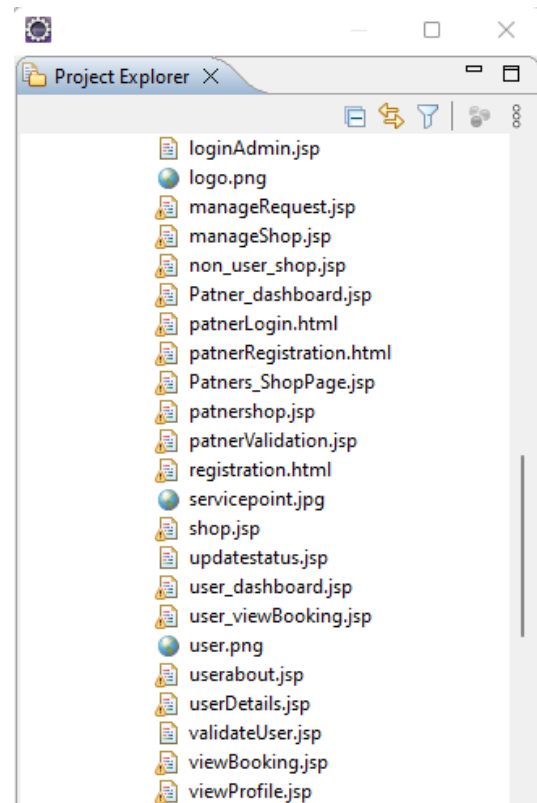
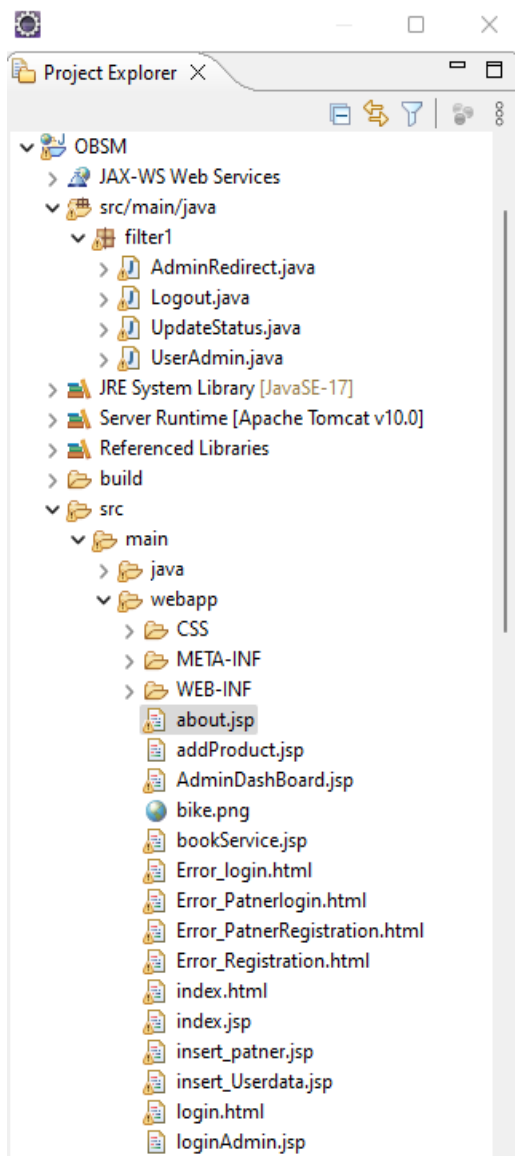
ONLINE BIKE SERVICE MANAGEMENT HOME MANAGE REQUEST USER MANAGE SHOP LOGOUT

Number Of User	Number Of Patners
15	17
Pending Patner Validation	Pending Booking Request
7	8

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5.3 Other Screenshots



Chapter 6

Conclusion And Future Work

In the future we are hoping to add the following features –

- Virtual Chat Box
- Real time tracking
- Bike Rentals
- Partnership Advertisement
- Loyalty Points
- Referral Codes
- Remove Partners

REFERENCES

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