



A  
MINI PROJECT REPORT  
ON  
**"CNG ONLINE SLOT BOOKING(COSB)"**

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Submitted in Partial fulfillment of  
**Master of Computer Application**  
Savitribai Phule Pune University

For the Academic Year  
2021-2022

Under The Guidance Of  
**Prof. Javed Attar**  
Department of MCA

**MET's Institute Of Engineering**  
**Bhujbal Knowledge City**  
Adgaon, Nashik



## **Department of Master of Computer Application**

Affiliated to

**Savitribai Phule Pune University**

# **CERTIFICATE**

**This is to certify that mini project entitled**

**“CNG ONLINE SLOT BOOKING(COSB)”**

Has been satisfactorily completed by

**AKSHAY BHUJBAL  
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In partial fulfillment of Mini Project Work for the

Degree In Master of Computer Application

Under the Faculty of Engineering

For the Academic Year 2021 – 2022

Prof. Javed Attar  
(Project Guide)

Prof. P.D.Jadhav  
(H.O.D.)

# **ACKNOWLEDGEMENT**

It gives us a great pleasure to present our project on “**CNG ONLINE SLOT BOOKING(COSB)**”.

As per the requirement of curriculum of the course M.C.A. from the University of Pune, at MET’s Institute Of Engineering, Bhujbal Knowledge City, Adgoan, Nashik

First, heartly thankful our respected HOD, Department of MCA **Prof. P. D. Jadhav** and I would also like to thank **Prof. J. R. Attar** Project Coordinator and project guide for their support and guidance opportunity to carry out the project.

Last but not least we express my deepest thanks to other staff member, our family members, our friends for helping us in completing our project.

# **ABSTRACT**

The project “COSB (CNG ONLINE SLOT BOOKING)” is a real time system to book slots for CNG pumps. The purpose of this project is to develop and implement an CNG slot booking system for pumps, that will replace the traditional method(manual).

Nowadays we all are facing many problems regarding filling the CNG in the car. In Nashik, we were facing so many problems like huge numbers of queues on CNG pumps to fill the CNG, and waiting for 5-6 hours and this will cost our valuable time. This is a problem where we got motivated to do this project. The objects-oriented analysis and design methodology (OOADM) used to analyze the system in order to discover the various objects involved and how they interact with one another so that a new and improved system can be defined.

The main use of an online system to state the date and time wise available slot for filling CNG, using this system, customers can book their slots according to their availability .This system assists the pump owners to manage the availability of slots, they also reduce other problems like avoiding crowds of cars which leads to traffic on road/pump.

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# **INTRODUCTION**

COSB (CNG ONLINE SLOT BOOKING) Project aim to design and implementation of an CNG slot booking system which will provides customers a facility to reserve there slot without any hassle. It is web based system and it will save valuable time and efforts for CNG feeling. This project entitled design and implement of an CNG booking system can applicable to register CNG pumps. The features of this system will be similar as a common booking system. The customer can only book the slot on this website but by their convenient time.

The COSB system designed in this project was developed using PHP, JavaScript, CSS and HTML as the programming languages and MYSQL as the database management system. The methodology adopted for this project is Agile methods. This allows real time communication admin and user. This system allows to select or search cities( between Nashik, Mumbai, Pune) and CNG pumps. And after select cities then this system allows the user to book their slots with date and time, user can select slots available in systems. Then book their slots...

# **PROBLEM DEFINITION**

Nowadays we all are facing many problems regarding filling the CNG in the car. In Nashik, we were facing so many problems like huge numbers of queues on CNG pumps to fill the CNG, and waiting for 5-6 hours and this will cost our valuable time. This is a problem where we got motivated to do this project. The objects-oriented analysis and design methodology (OOADM) used to analyze the system in order to discover the various objects involved and how they interact with one another so that a new and improved system can be defined.

Problem definition deals with observation, site visits and discussions to identify analyze and document project requirements and carry out feasibility studies and technical assessments to determine the best approaches for full system development.

The project “COSB (CNG ONLINE SLOT BOOKING)” is a real time system to book slots for CNG pumps. The purpose of this project is to develop and implement an CNG slot booking system for pumps, that will replace the traditional method(manual).

# **EXISTING SYSTEM**

## **EXISTING SYSTEM :**

There is no such project as CNG Online Slot Booking. This is one of the new concept based on CNG online booking which is not available in the market. As there is no existing system, so there are no drawbacks.

# **FEASIBILITY STUDY**

Feasibility is a measure of how beneficial or practical the development is to an organization. It is the activity by which feasibility is measured. The most important outcome of preliminary investigation is that the system request is feasible. Depend on the outcome of the preliminary investigation the investigation need more deep detail feasibility study. Feasibility study is a study of the proposed system according to its workability impact on the organization, ability to meet user need, and effective use of resources. Consequently cost and benefits are estimated with greater accuracy at this stage.

## **1.TECHNICAL FEASIBILITY:**

Technical feasibility is a study of resource availability that may affect the ability to achieve an acceptable system. This evolution determines whether the technologies needed for this system is technically acceptable or not.

- Time complexity.
- Space complexity.
- Responsiveness.
- Availability Complexity.

## **2.ECONOMICAL FEASIBILITY:**

It finds out whether the new technology or proposed system will be suitable using Two types of aspects that are human and organization. In this system:  
•Operations are easy in this website as compared to manual work.

- Users do not require taking extra training.
- Accuracy is maintained.
- Time is saved.

### **3.Operational feasibility**

In this step we will find total cost and all benefits as well as expected savings of this system.

- Cost of this system is less.
- Cost of hardware is less.
- As requirement of training is not needed, training cost is zero.

# **H/W & S/W REQUIREMENTS**

## **Hardware Requirements:**

- Computer/Laptop
- Processor: i3 or more
- RAM: 4 GB or more

## **Software Requirements:**

- OS: Windows 7 or above.
- Xampp Server
- Web Browser: Chrome, Edge, Firefox.
- Front end: HTML, CSS, JS, Bootstrap.
- Back End: PHP.
- Database: MySQL.

# **DETAIL DESCRIPTION OF TECHNOLOGY USED**

## **XAMPP :**

XAMPP is an abbreviation where X stands for Cross-Platform, A stands for Apache, M stands for MYSQL, and the Ps stand for PHP and Perl, respectively. It is an open-source package of web solutions that includes Apache distribution for many servers and command-line executables along with modules such as Apache server, MariaDB, PHP, and Perl. Xampp offers even more features that enhance your productivity when building web apps, such as:

- A flexible Gradle-based build system.
- XAMPP is offered in both a full and a standard version (Smaller version).
- A unified environment where you can develop for all Web applications.
- XAMPP Supported Platforms a version for Windows 98, NT, 2000, 2003 and XP.
- XAMPP is regularly updated to the latest releases of Apache, MariaDB, PHP and Perl.
- It also comes with a number of other modules including OpenSSL, phpMyAdmin, MediaWiki, Joomla, WordPress and more.
- Self-contained, multiple instances of XAMPP can exist on a single computer, and any given instance can be copied from one computer to another.

## **MySQL Server :**

MySQL is an open source relational database management system (RDBMS).It is the most popular database system used with PHP,MySQL is developed,distributed and supported by Oracle Corporation.

- The data in a MySQL database are stored in tables which consists of columns and rows.
- MySQL is a database system that runs on a server.

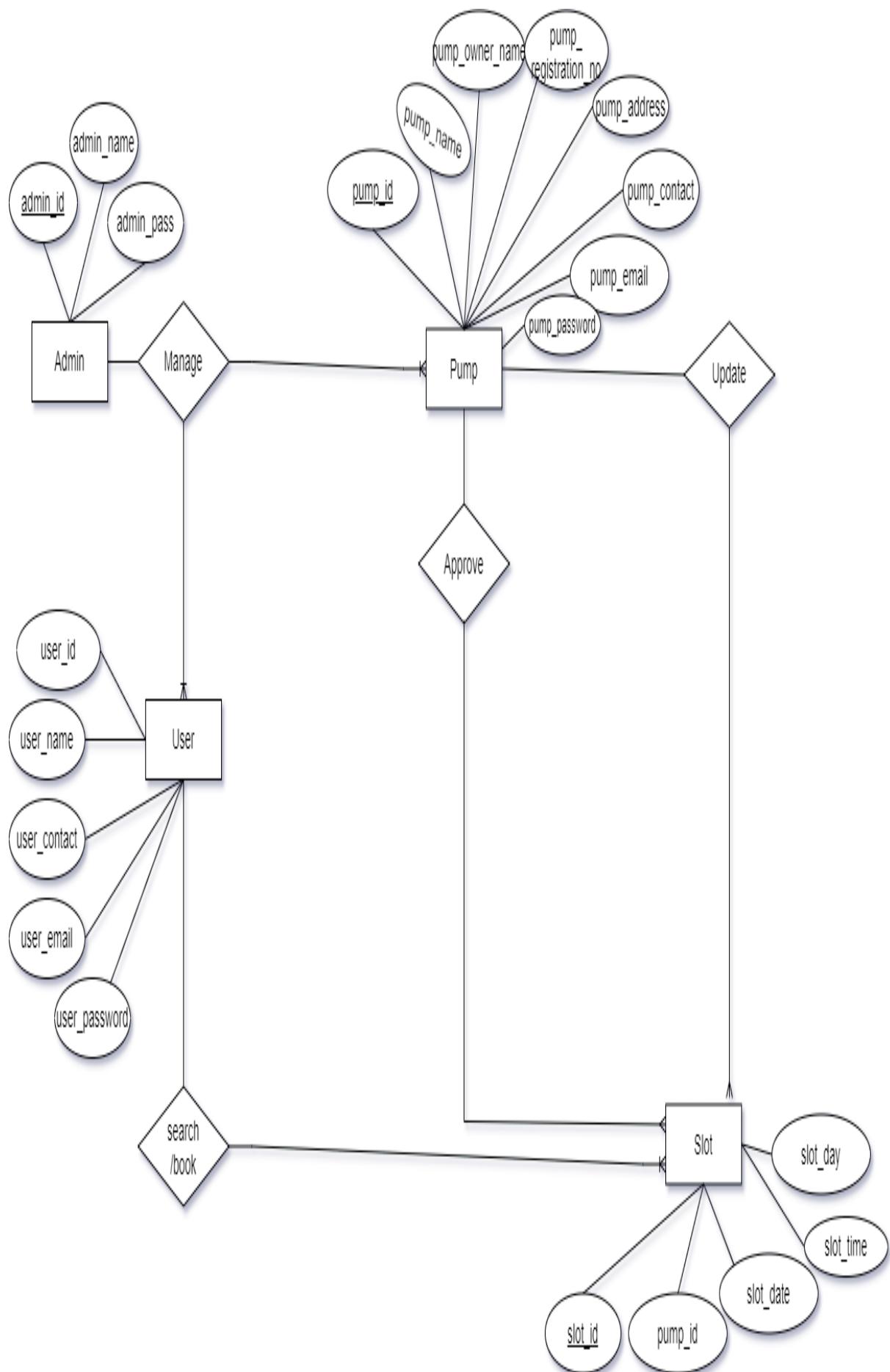
- MySQL is ideal for both small and large applications.
- MySQL is very fast, reliable, and easy to use database. It uses standard SQL.
- MySQL compiles on a number of platforms.

## **PHP :**

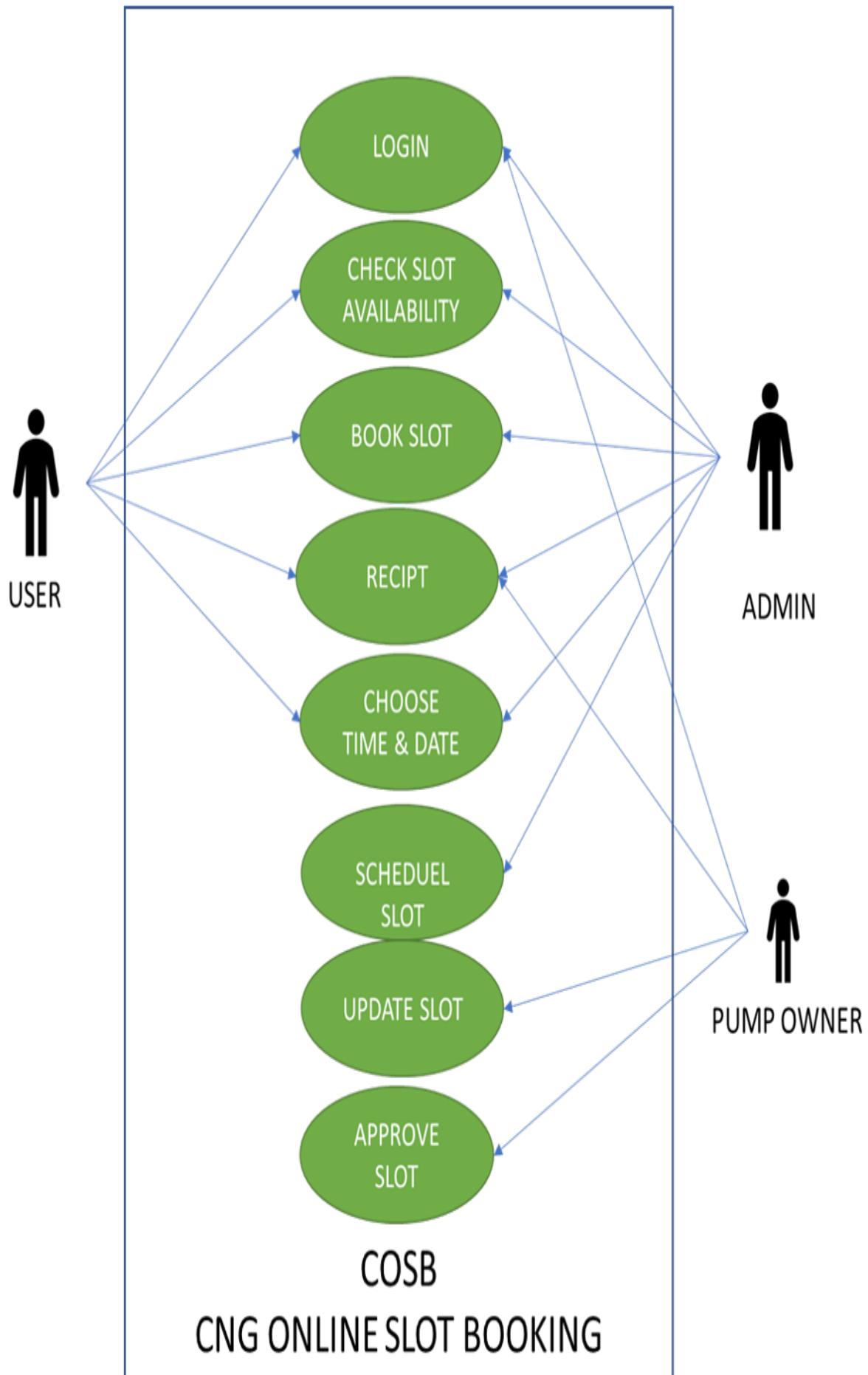
Stands for "PHP: Hypertext Pre-processor," a recursive acronym. PHP is a scripting language web developers use to create dynamic websites. It is often installed by default on Apache web servers, alongside MySQL as part of a "LAMP" configuration.

When a website visitor accesses a PHP page, the web server processes, or "parses," the PHP code, which can output HTML to the webpage. In the example below, the PHP function gets the local time and date from the server and inserts it into the HTML. (The PHP code starts and ends with the <?php and ?> tags. "F d, Y" formats the date as December 31, 2021.)

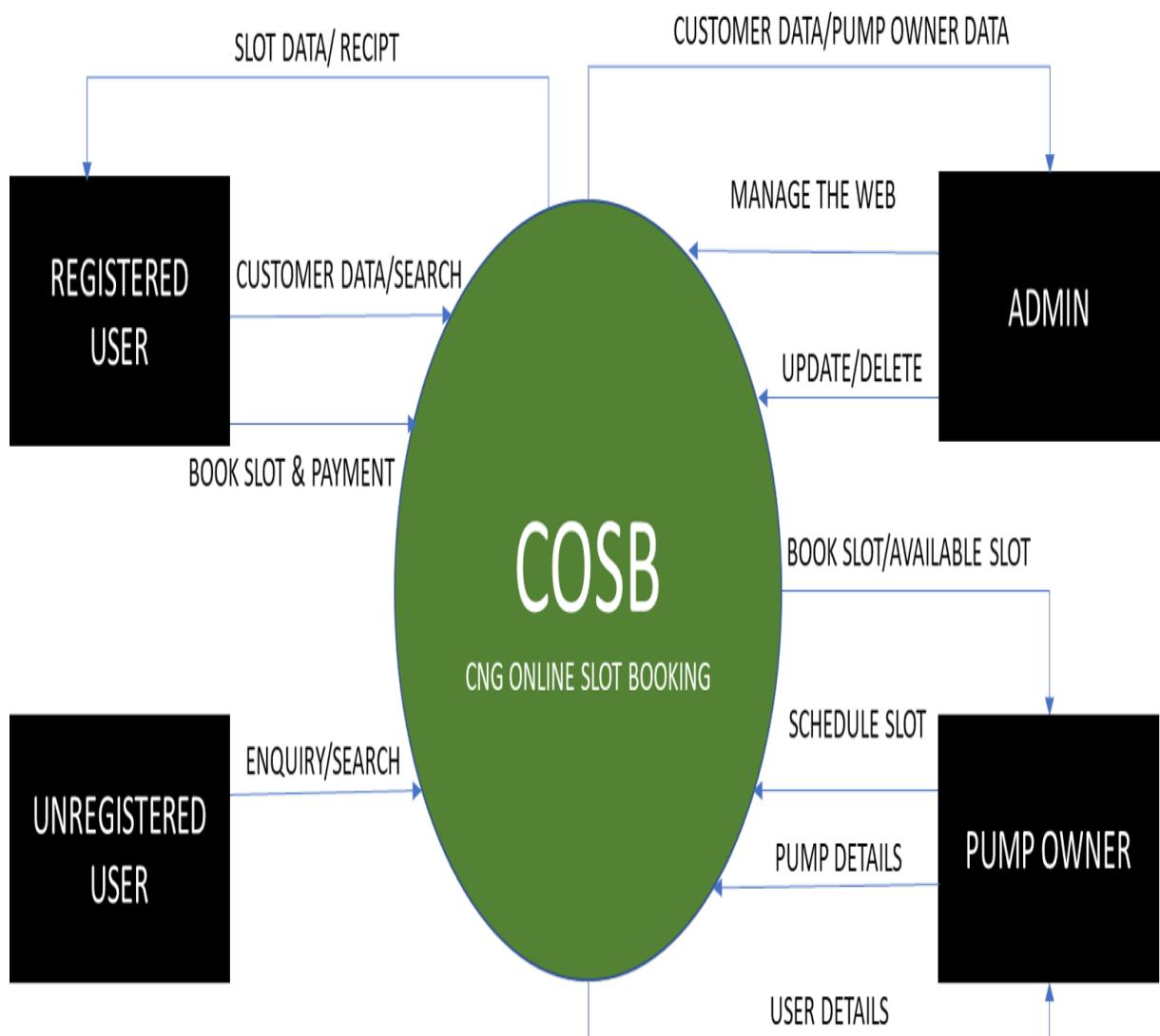
# ER DIAGRAM



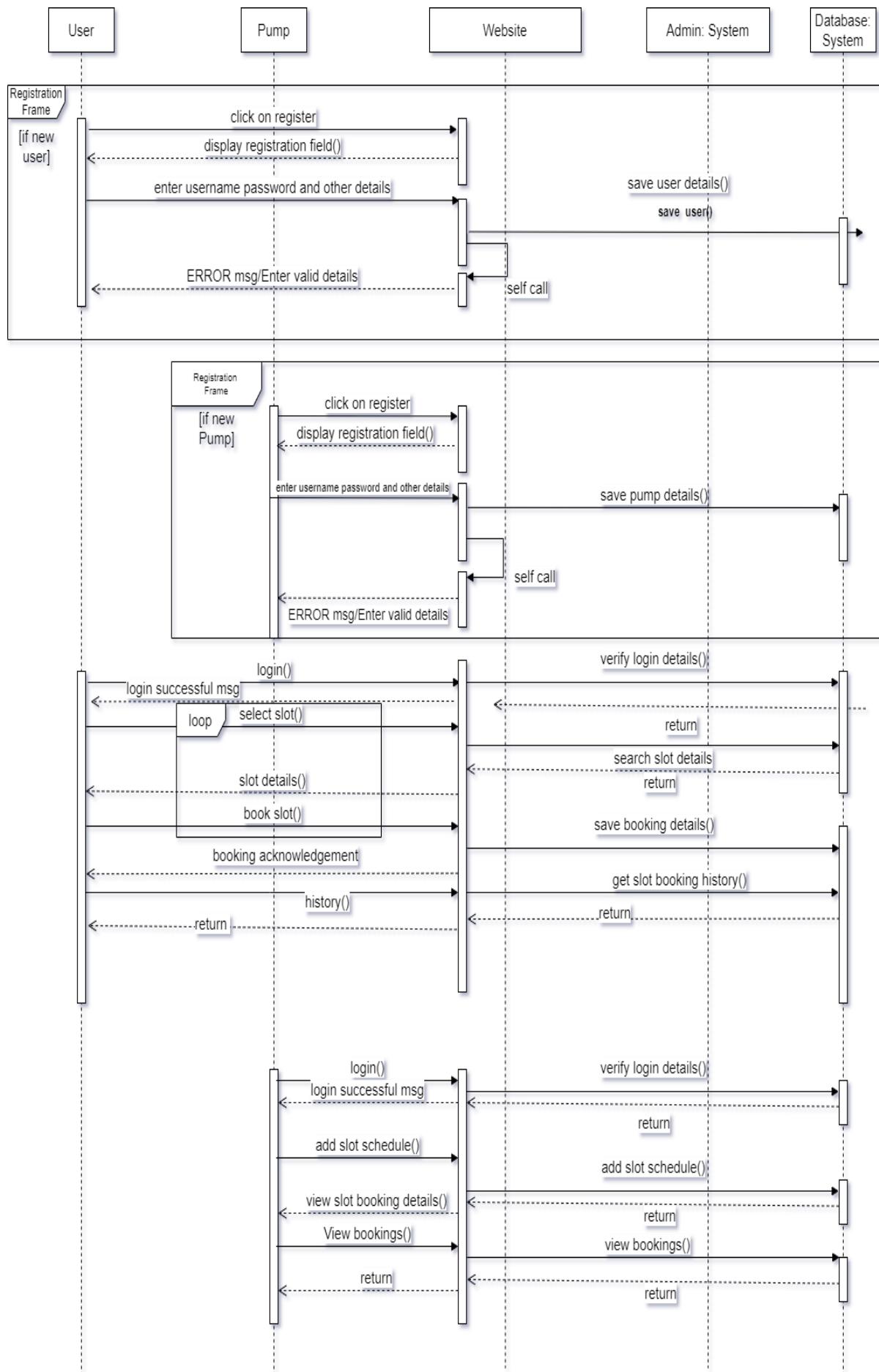
# usecase



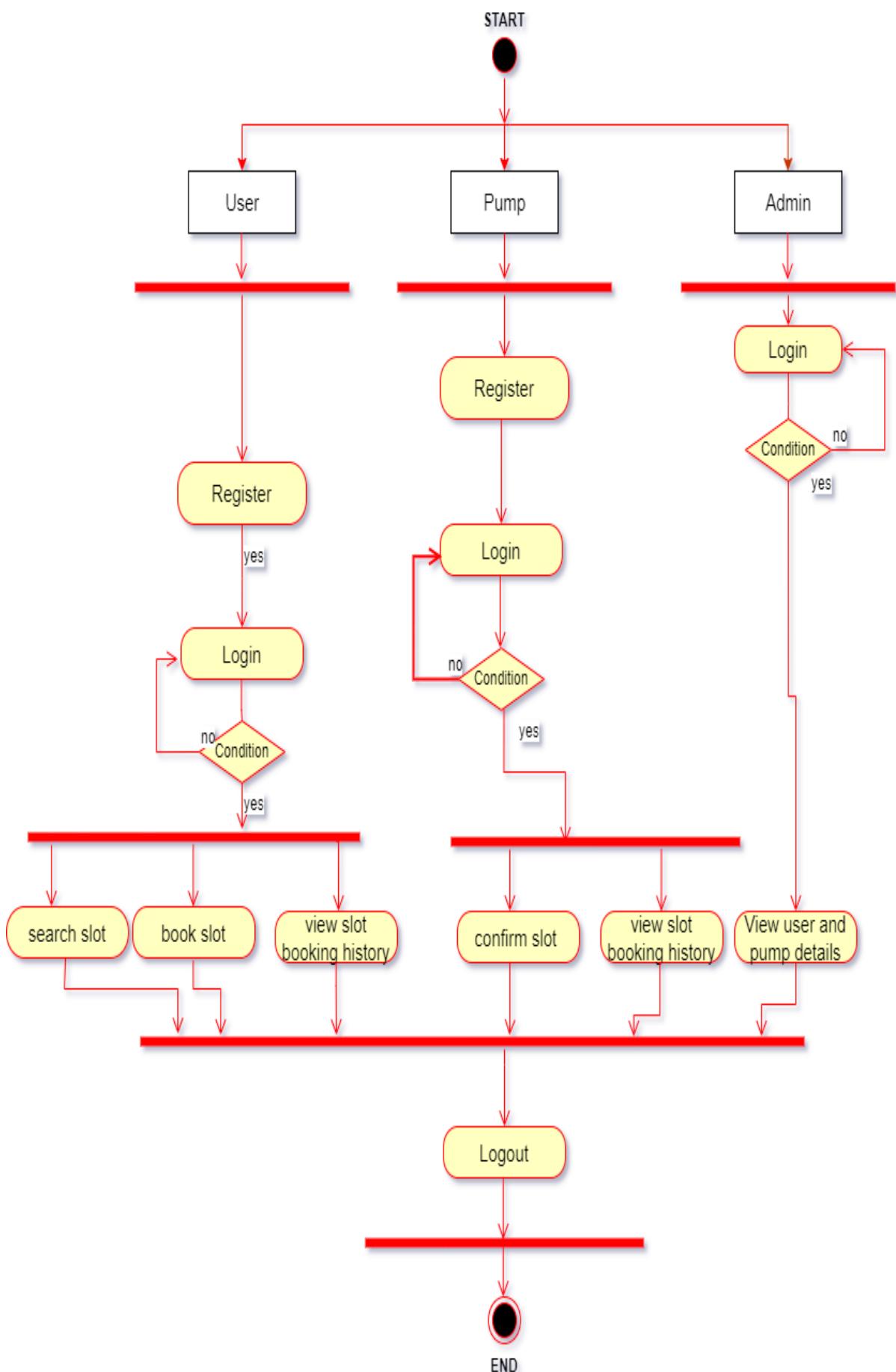
# DATA FLOW DIAGRAM



# SEQUENCE DIAGRAM



# ACTIVITY DIAGRAM



# DATA DICTIONARY

## **USER DETAILS:**

Field	Data	Type Description
User_id	Int(11)not null	User id
User_name	Varchar(150)not null	User Name
Email	Varchar(150)not null	Email
Contact	Varchar(150)not null	Mobile number
Password	Text not null	Password

## **PUMP DETAILS:**

Field	Data	Type Description
Pump_id	Int(11)not null	Pump id
Pump_name	Varchar(150)not null	Pump Name
Owner_name	Varchar(150)not null	Owner Name
Email	Varchar(150)not null	Email address
Password	Text not null	Password
Address	Text not null	Address
Contact	Varchar(150)not null	Mobile number

## **ADMIN DETAILS:**

Field	Data	Type Description
Admin_id	Int(11)not null	Admin id
Admin_name	Varchar(150)not null	Admin name
Password	Text not null	Password

## **Schedule Details:**

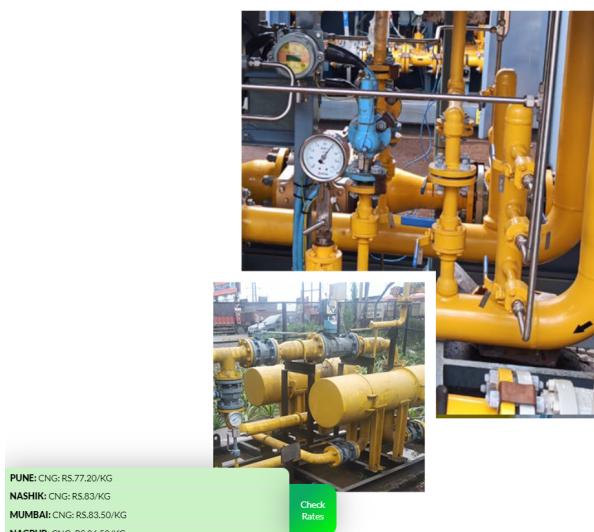
Field	Data	Type Description
Schedule_Id	Int(11)not null	Schedule Id
Schedule_Date	Int(11)not null	Schedule Date
Schedule_Day	Varchar(150)not null	Schedule Day
Start_time	Int(11)not null	Start Time
End_time	Int(11)not null	End Time
BookAvail	Varchar(15)not null	Book Available

## **Book Details:**

<b>Field</b>	<b>Data</b>	<b>Type Description</b>
Id	Int(11)not null	Id
User_id	Int(11)not null	User id
Schedule_Id	Int(11)not null	Schedule Id
CarNo	Varchar(150)not null	Car No.
Quantity	Int(11)not null	Quantity
Status	Text	Status

# SCREENSHOTS

## Home Page :



Welcome to CNG ONLINE SLOT BOOKING!

## Introduction

" CNG ONLINE SLOT BOOKING (COSB) is a real time system to book slots for CNG pumps. The purpose of this project is to develop and implement an CNG slot booking system for pumps, that will replace the traditional method(manual).

In this the slot is usually assigned within two or three hours after the online booking. The customer can only book the slot on this website but by their convenient time. We serve an global priority to a time saving mechanism and provide 100 cent of costomer satisfaction.

COSB (CNG ONLINE SLOT BOOKING) Project aim to design and implementation of an CNG slot booking system which will provides customers a facility to reserve there slot without any hassle. It is web based system and it will save valuable time and efforts for CNG feeling. This project entitled design and implement of an CNG booking system can applicable to register CNG pumps. The features of this system will be similar as a common booking system. The customer can only book the slot on this website but by their convenient time."

**Health & safety**

## SAFETY TIPS

Natural gas is one of the safest and most reliable fuels available and rarely does a mechanical failure or storm interrupts its dependable delivery. MNGL continually monitors our pipeline system to ensure safe and reliable delivery of natural gas to your home.

- 01. If you smell gas**  
Open all Doors and Windows
- 02. If you smell gas**  
Turn off your gas supply
- 03. If you smell gas**  
Do not switch on or off any electrical switch
- 04. If you smell gas**  
Extinguish all naked flames
- 05. If you smell gas**  
Call Emergency Service Number 9011676767 / Toll Free Number: 1800 266 2696 after coming out from the danger area.

# Home Page Footer :



CNG ONLINE SLOT BOOKING (COSB)  
Hosted website COSB at Nashik in 2022,  
for the Green Commonwealth Youth.

Check Rates

0000 000 0000  
000000000- Emergency Helpline  
cosbhelp@gmail.com

Instagram Twitter Facebook

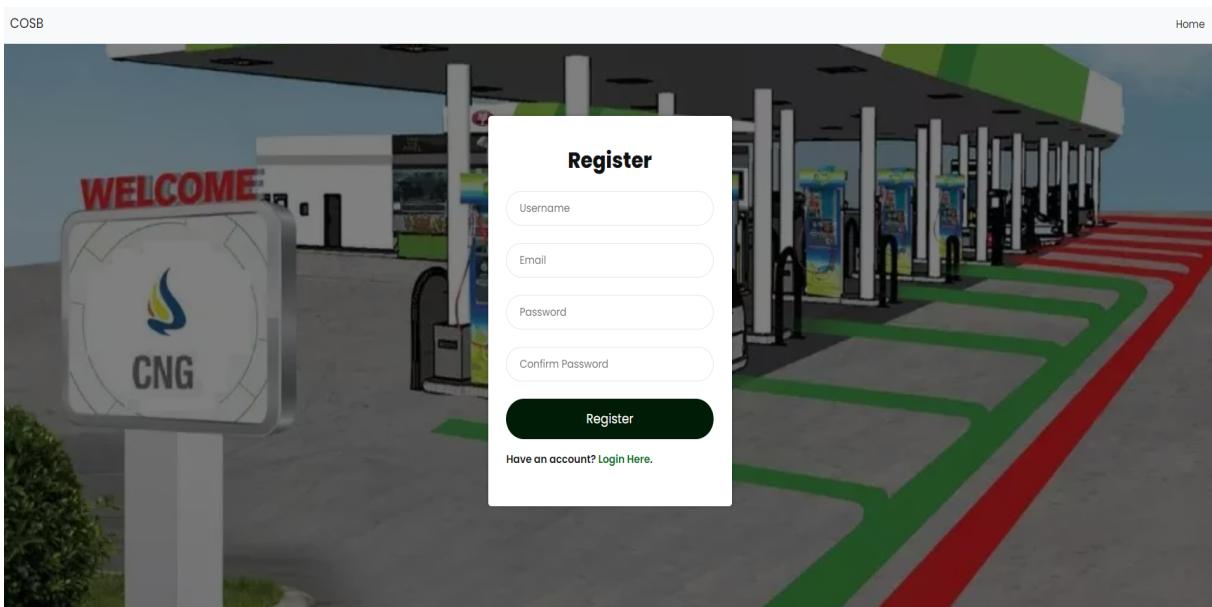
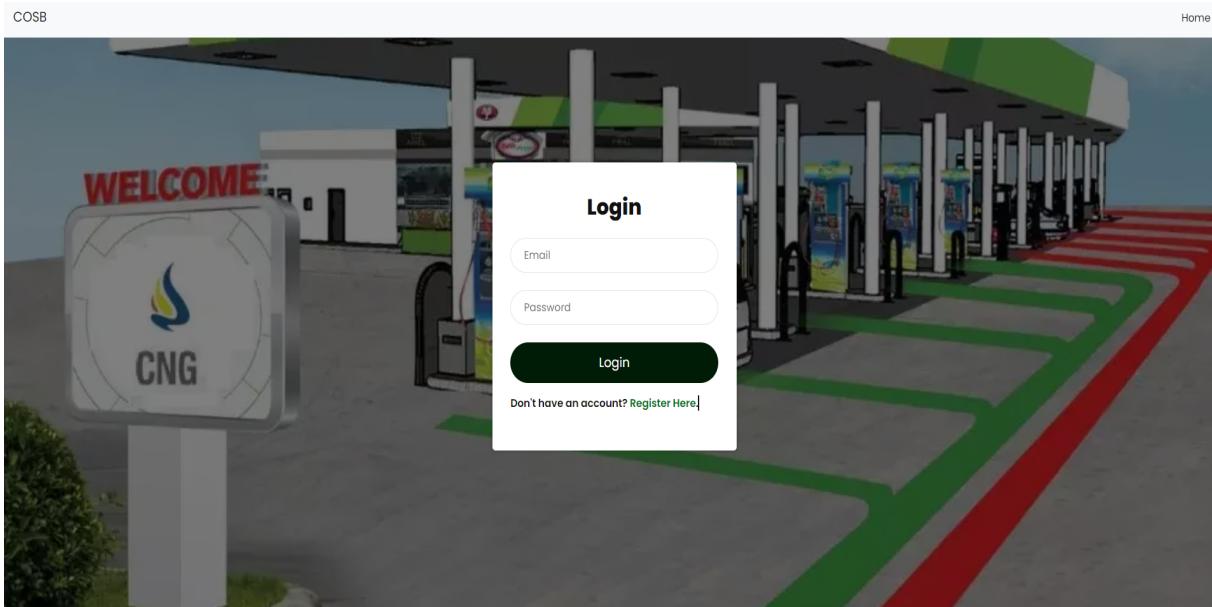
2022 COSB. All rights reserved.

Powered by

Distribution of Oxygen Concentrators to Covid Centres  
Oct 25, 2021

PUMP LOGIN ADMIN LOGIN

## User Login/ Register :



## User Page :

### Slot Calender for Slot Booking :

COSB

Hi akki . Book Your Slot!

2022-06-30

ID	Day	Date	Start Time	End Time	Availability	Book Now!
40	Thursday	2022-06-30	09:00:00	10:00:00	notavail	<a href="#">BOOK NOW</a>
41	Thursday	2022-06-30	10:00:00	11:00:00	notavail	<a href="#">BOOK NOW</a>
42	Thursday	2022-06-30	11:00:00	12:00:00	available	<a href="#">BOOK NOW</a>

©COSB @2022 ❤

COSB

Hi akki . Slot!

2022-07-02

ID	Day	Date	Start Time	End Time	Availability	Book Now!
46	Saturday	2022-07-02	01:00:00	03:00:00	available	<a href="#">BOOK NOW</a>
47	Sunday	2022-07-02	04:00:00	01:00:00	available	<a href="#">BOOK NOW</a>
52	Sunday	2022-07-02	01:00:00	02:00:00	available	<a href="#">BOOK NOW</a>

©COSB @2022 ❤

## Slot Book list :

COSB

Home Booked Slot akki ▾

### Your Slot List.

List of Booked Slot							
Id	Userid	User Name	scheduleDay	scheduleDate	startTime	endTime	Print
89	1	akki	Thursday	2022-06-30	09:00:00	10:00:00	
90	1	akki	Thursday	2022-06-30	10:00:00	11:00:00	

## Invoice :



Invoice #: 89  
Created: 30-06-2022

1  
akki  
akshaybhujbal00@gmail.com  
8600386608

Slot Details	#
Slot Booking ID	89
Schedule ID	40
Booked Slot Day	Thursday
Booked Slot Date	2022-06-30
Booked Slot Time	09:00:00 until 10:00:00
Car No.	MHI15FF9262
Approx Quantity	10

[Print this page](#)

## User Profile :

COSB

Home Booked Slot  akki ▾

akki



akki  
akshaybhujbal00@gmail.com

[Update Profile](#)

akki

User Id	1
User Name	akki
Email	akshaybhujbal00@gmail.com
Contact	8600386608

◊ Log Out

## User Update Profile :

COSB

Home Booked Slot  akki ▾

akki



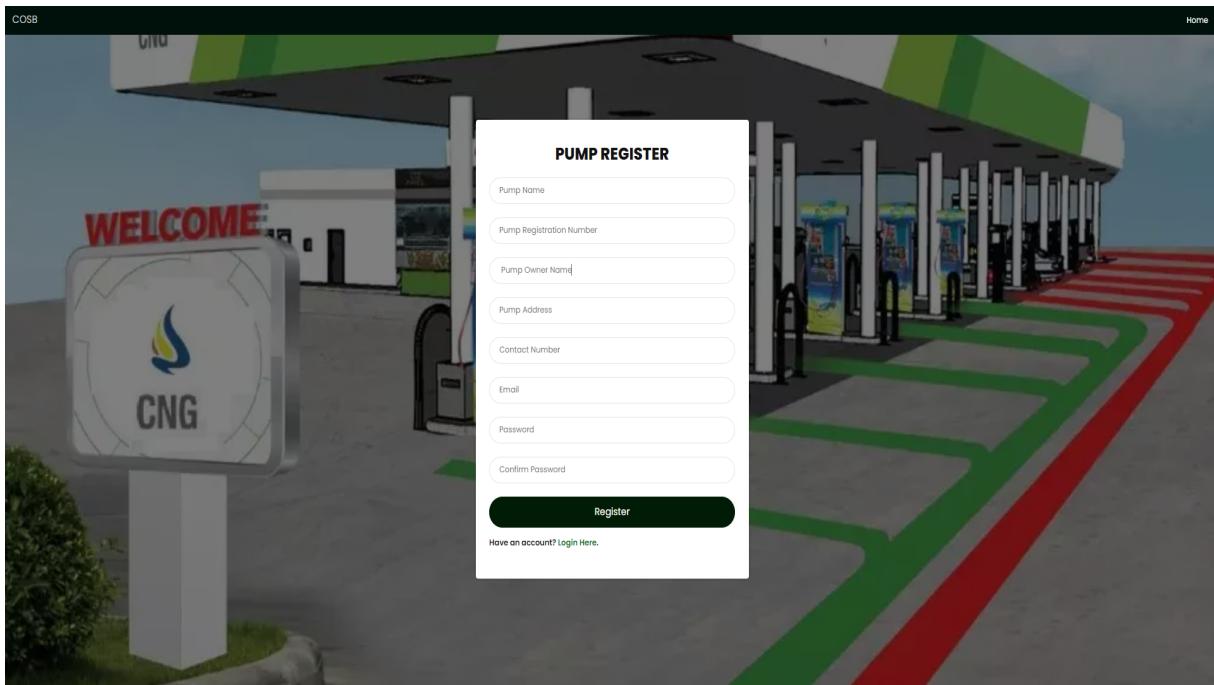
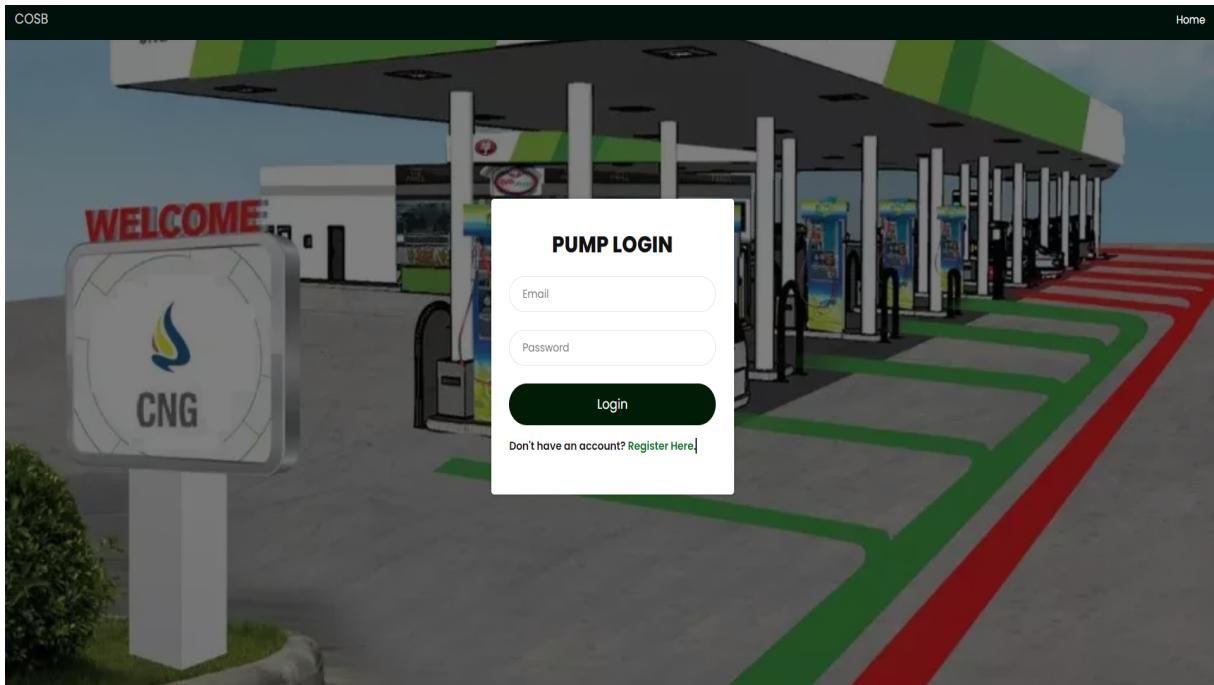
akki  
akshaybhujbal00@gmail.com

[Update Profile](#)

akki

User Id	1
User Name	akki
Email	akshaybhujbal00@gmail.com
Contact	8600386608

## Pump Login/Register :



## Pump Dashboard :

Welcome Akshay Petroleum

Akshay Petroleum

Dashboard

Add Schedule

### Booking List

User Id	Name	Email	Day	Date	Start	End	Status	Complete	Delete
1	akki	akshaybhujbal00@gmail.com	Thursday	2022-06-30	10:00:00	11:00:00	process	<input type="checkbox"/>	
1	akki	akshaybhujbal00@gmail.com	Thursday	2022-06-30	09:00:00	10:00:00	process	<input type="checkbox"/>	

UPDATE

## CNG Slot Schedule :

Welcome Akshay Petroleum

Akshay Petroleum

Dashboard

Add Schedule

### CNG Slot Schedule

Schedule

#### Add Schedule

Date *	<input type="text"/>
Day *	Monday
Start Time *	<input type="text"/>
End Time *	<input type="text"/>
Availability *	available
<input type="button" value="Submit"/>	

#### List of your slot

scheduleId	scheduleDate	scheduleDay	startTime.	endTime	bookAvail
40	2022-06-30	Thursday	09:00:00	10:00:00	notavail
41	2022-06-30	Thursday	10:00:00	11:00:00	notavail
42	2022-06-30	Thursday	11:00:00	12:00:00	available

UPDATE

## Pump Profile :

Welcome Akshay Petroleum

Akshay Petroleum -

Profile

Dashboard Add Schedule

Profile

Pump Details

  
Akshay Petroleum  
Pump

UPDATE PROFILE

Akshay Petroleum

Reg No	14312
Name	Akshay Petroleum
Owner Name	Akshay Bhujbal
Contact Number	986767876
Email	akshaybhujbal00@gmail.com
Address	trimurti,nashik

## Pump Update Profile :

Welcome Akshay Petroleum

Akshay Petroleum -

Profile

Dashboard Add Schedule

Profile

Pump Details

  
Akshay Petroleum  
Pump

UPDATE PROFILE

Update Profile

X

Registration Number:	14312
Name:	Akshay Petroleum
Owner Name:	Akshay Bhujbal
Phone number:	986767876
Email:	akshaybhujbal00@gmail.com
Address:	trimurti,nashik

UPDATE INFO

Owner Name	Akshay Bhujbal
Contact Number	986767876
Email	akshaybhujbal00@gmail.com
Address	trimurti,nashik

## Website Admin Login :



### Login

Akshay

....

## Admin Dashboard :

A screenshot of the COSB Admin Dashboard. On the left is a sidebar with the title "COSB" at the top. Below it is a list of menu items with icons: "ADMIN PANEL", "Dashboard", "USER", "PUMPS", and "Message". To the right of the sidebar is a main content area. At the top of this area is the text "WELCOME ADMIN". Below this are three white rectangular boxes containing statistics: one box shows "9 USER", another shows "2 REGISTER PUMPS", and a third shows "2 ADMIN".

## User Details :

The screenshot shows the COSB Admin Panel interface. On the left, a dark sidebar lists navigation options: ADMIN PANEL, Dashboard, USER, PUMPS, and Message. The main area is titled "WELCOME ADMIN". It features three summary boxes: "9 USER", "2 REGISTER PUMPS", and "2 ADMIN". Below these is a table titled "USER DETAILS" with 9 rows of data.

ID	Name	Email
1	akki	akshaybhujbal00@gmail.com
2	ganesh	ganesh@gmail.com
3	sahil	sahilbirud3@gmail.com
4	sahil	sahilbirud4@gmail.com
5	swapnil	swapnil@gmail.com
6	swapnil	swapnil1@gmail.com
7	sahil	SHDSD@GMAIL.COM
8	Sahil	akshaybhujbal@gmail.com
9	akshay	akshay@gmail.com

## Pump Details :

The screenshot shows the COSB Admin Panel interface. On the left, a dark sidebar lists navigation options: ADMIN PANEL, Dashboard, USER, PUMPS, and Message. The main area is titled "WELCOME ADMIN". It features three summary boxes: "9 USER", "2 REGISTER PUMPS", and "2 ADMIN". Below these is a table titled "REGISTER PUMPS" with 2 rows of data.

ID	PUMP NAME	OWNER NAME	ADDRESS	EMAIL	PHONE NO.
6	SAI PETROL PUMP	GANESH GITE	NASHIK	saipump@gmail.com	2147483647
7	Bharat Gas	Kritiksha	mumbai	kritigadikar@gmail.com	2147483647

## Messages :

The screenshot shows the COSB Admin Panel interface. On the left, there is a sidebar with the title "COSB" at the top. Below it, there are four menu items: "ADMIN PANEL" (with a person icon), "Dashboard" (with a bar chart icon), "USER" (with a user icon), "PUMPS" (with a pump icon), and "Message" (with a message icon). The main content area has a header "WELCOME ADMIN". Below the header, there is a table titled "Messages". The table has columns: ID, Name, EMAIL, MESSAGE, and DATE TIME. There are three rows of data:

ID	Name	EMAIL	MESSAGE	DATE TIME
3	Harshal Mandlik	mandlikharsha90@gmail.com	Thank You	2022-06-25 19:48:06
2	Swapnil Deshmukh	swapnild680@gmail.com	Slot not available	2022-06-25 19:30:44
1	akshay	akshaybhujbal00@gmail.com	Regarding slot booking	2022-06-25 19:27:49

# AboutUs Page :

The screenshot shows the 'About Us' page of a website. At the top, there's a navigation bar with 'COSB' on the left and 'Home login' on the right. Below the navigation is a section titled 'About Us' with a descriptive paragraph. Underneath is a section titled 'Our Team' featuring four cards, each with a profile picture, name, a short bio, and social media links.

**GANESH GITE**  
This is a longer card with supporting text below as a natural lead-in to additional content. This content is a little bit longer.

**AKSHAY BHUJBAL**  
This is a longer card with supporting text below as a natural lead-in to additional content. This content is a little bit longer.

**KRITIKSHA GADIKER**  
This is a longer card with supporting text below as a natural lead-in to additional content.

**SAHIL GOHIL**  
This is a longer card with supporting text below as a natural lead-in to additional content. This content is a little bit longer.

**COSB**  
CNG ONLINE SLOT BOOKING (COSB)  
Hosted website COSB at Nashik in 2022, for the Green Commonwealth Youth.  
  
1800 266 2696  
9579591945 - Emergency Helpline  
cosbhelp@gmail.com

**Useful Links**  
[Home](#) [Business](#)  
[Customer Zone](#) [About us](#)  
[Contact us](#) [login](#)

**Latest News**  
[Distribution of Oxygen Concentrators to Covid Centres](#)  
Oct 25, 2021

**Newsletter**  
 Email Address

[PUMP LOGIN](#) [ADMIN LOGIN](#)

# Pump Details :

The screenshot shows the 'Pump Details' page. At the top, there's a navigation bar with 'COSB' on the left and 'Home' on the right. The main content area features a dark background with a blurred image of a person at a gas pump. On the left, there's a list of contact details: location (Nashik, Maharashtra, India), email (cosbhelp@email.com), phone number (+00 0000 000 000), and operating hours (Mon - Fri 8:00 AM to 5:00 PM). On the right, there's a contact form with fields for 'Your Name', 'Your Email', and 'Your Message', along with a 'SEND' button and social media sharing icons.

**NASHIK, MAHARASHTRA, INDIA**  
**cosbhelp@email.com**  
**+00 0000 000 000**  
**Mon - Fri 8:00 AM to 5:00 PM**

Your Name   
Your Email   
Your Message

**CONTACT US**

# **ADVANTAGES, DISADVANTAGES**

## **Advantages :**

- Saves a lot of time of the customer.
- The traditional method i.e. waiting in queue for filling the gas will be stopped.

## **Disadvantages :**

- This website is not yet available in mobile.
- Mobile phone verification is not yet added to our project.

## **FUTURE ENHANCEMENT**

- In the future we can build Mobile applications for smartphones.
- Introduce online payment system.
- Add mobile number and email id verifications.
- Currently the system supports desktop pc and in future we can make mobile browser compatible site.

# **CONCLUSION**

- After making this website I assure that this website help users to reduce their time to fill CNG.
- It will also help to search CNG pumps.
- It will prove to be helpful for the people who are frustrated with filling CNG urgency.
- If user need to contact admin then user can send message through contact us.

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