

ONLINE OXYGEN MANAGEMENT SYSTEM

A MINI PROJECT REPORT

Submitted by

Student name [register number]

in partial fulfillment for the award of the degree

of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE AND ENGINEERING



VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY

Autonomous

MAY 2023

BONAFIDE CERTIFICATE

Certified that this Mini Project report “**title**” is the bonafide work of “student name (register number)” of **IV Semester B.E Computer Science and Engineering** who carried out the project work under my supervision.

SIGNATURE

Dr.R.DEEPALAKSHMI
HEAD OF THE DEPARTMENT
COMPUTER SCIENCE AND ENGINEERING
VELAMMAL COLLEGE OF ENGG & TECH
MADURAI

SIGNATURE

Ms. J. SHANTHALAKSHMI REVATHY
ASSISTANT PROFESSOR
COMPUTER SCIENCE AND ENGINEERING
VELAMMAL COLLEGE OF ENGG & TECH
MADURAI

TABLE OF CONTENTS

CHAPTER NO	TITLE	PAGE NO
	ABSTRACT	1
1.	INTRODUCTION	2
2.	ABOUT THE SYSTEM	
	2.1 EXISTING SYSTEMS	4
	2.2 NEED FOR NEW SYSTEM	4
	2.3 PROPOSED SYSTEM	4
3.	HARDWARE AND SOFTWARE REQUIREMENTS	6
4.	MODULE DESCRIPTION	
	4.1 MODULE 1 [login page]	7
	4.2 MODULE 2 [admin page]	7
	4.3 MODULE 3	7
5.	CONCLUSION	9
6.	SAMPLE CODING	10
7.	APPENDICES [output screen]	20
8.	REFERENCE	23

ABSTRACT

The Second wave of COVID'19 Coronavirus has brought a human unseen condition for demand on Oxygen Supply in all over the world and especially in India. Due to the unavailability of a proper channel of getting Oxygen, made people to find the supply of oxygen through phone calls, sms, Whatsapp message, posting through facebook, twitter and so many social medias. But only few got the right suppliers and many could not get their demand satisfied at the right time. Even hospitals faced the same situation. To combat such problems, in this project we propose a unique system for Online Oxygen Management System which can effectively meet the crisis situation in an effective way. To combat the crisis of oxygen shortage in the face of the raging Covid-19 wave, this proposed system is launched as a digital platform to fast-pace the supply chain to both people and hospitals.

1.INTRODUCTION

1.1 BACKGROUND

The second wave of coronavirus has brought in unforeseen challenges in the country and hospitals in several cities of the world and especially in India including the national capital Delhi are reeling under a severe shortage of oxygen supply. There was no proper channel for connecting the suppliers of oxygen.

1.2 MOTIVATION

During these volatile times, uninterrupted supply of oxygen to hospitals is extremely important for the smooth functioning of health systems. The platform will closely monitor and track the location of vehicles assigned with the task of oxygen supply and will help provide oxygen to the hospitals in the shortest possible time as per the demand and requirement. The web link will directly connect the needy with officials/workers who are in charge of the oxygen supply chain in the state. All the details will be regularly updated on the portal by the company's representatives. By tracking availability online, to avoid emergencies, save time and fulfill oxygen demands.

1.3 OBJECTIVES

The main objective of the project is to Prevents death cases due to Oxygen supply demand or unavailability. A specific health facility wants to improve availability of oxygen and better understand the different oxygen supply options and appropriate solutions available; A country or region wants an overview of oxygen needs and oxygen source options across the country or region; The needy can able to contact the supplier directly in case of unavailability or in urgent emergency situations.

2. About the System

2.1 Existing system

The second wave of coronavirus has brought in unforeseen challenges in the country and hospitals in several cities of the world and especially in India including the national capital Delhi are reeling under a severe shortage of oxygen supply. There was no proper channel for connecting the suppliers of oxygen. Existing systems mostly depend on communicating through Telephone calls, sms request, or posting the request on social medias like facebook, twitter etc.

2.2 Need for New System

Most of district level hospitals do not have piped medical gas system. Also despite heavy consumption of medical oxygen, many district hospitals in bigger cities have single manifolds. Therefore, there is a need to do assessment of Oxygen supply system so that uninterrupted Oxygen supply may be ensured in all district level hospitals. Due to improper channel, the requirements of the patients cannot be fulfilled and there were a lot of human deaths due to it.

2.3 Proposed System

During these volatile times, uninterrupted supply of oxygen to hospitals is extremely important for the smooth functioning of health systems. The platform will closely monitor and track the location of vehicles assigned with the task of oxygen supply and will help provide oxygen to the hospitals in the shortest possible time as per the demand and requirement. The proposed system will be assigned to ensure an easy supply of oxygen to government and private hospitals round the clock.

The web link will directly connect the needy with officials/workers who are in charge of the oxygen supply chain in the state. All the details will be regularly updated on the portal by the company's representatives. By tracking availability online, to avoid emergencies, save time and fulfill oxygen demands.

3. Hardware and Software Requirements

HARDWARE REQUIREMENTS:

- System : Pentium i3 Processor
- Hard Disk : 500 GB.
- Monitor : 15'' LED
- Input Devices : Keyboard, Mouse
- Ram : 2 GB

SOFTWARE REQUIREMENTS:

- Operating system : Windows 10.
- Coding Language :
- Tool : Netbeans 8.2
- Database : MYSQL

4. Module Description

4.1 USER MODULE:

In this module we develop the User part, where the new user will be registering with the all details and then login to the system. Once the user logs in, the user will be able to see the available cylinders. If the user clicks any of it, then the detailed information will be given. If the user required any cylinder, then the user can able to order it in Online. Once the supplier confirms it, then the user will be notified to their email id stating their confirmation of the order.

4.2 HOSPITAL MODULE:

In this module we develop the Hospital part, where the hospital will be registering with the all details and then login to the system. Once the hospital logged in, the hospital can be able to see the available cylinders. If they clickany of it, then the detailed information will be given. If the hospital entity required any cylinder, then they can able to order it in Online. Once the supplier confirms it, then the user will be notified to their email id stating their confirmation of the order.

4.3 OXYGEN SUPPLIER MODULE:

In this module, first the Oxygen Supplier should register with all the details and then get the credentials of login. In the add Stock option the supplier should add the details of: Company name, Price (Per Cylinder), Image, Water Capacity ,Oxygen purity etc. In the View User Orders, the supplier will able to see the orders placed by the users. In case if the supplier approves it, then the user will get an email stating the confirmation of their order.

5.CONCLUSION

Timely and robust planning for reliable oxygen delivery is needed more than ever - to protect and save lives. Scaling up access to oxygen is one of the most effective and critical actions decision-makers can take to improve health outcomes and save lives. This platform, which provides resources to help stakeholders, decision-makers, and implementers understand, plan, and manage oxygen delivery scale-up and help advocates communicate the need for oxygen and reliable access to this essential treatment. The COVID-19 pandemic has highlighted and exacerbated deficiencies in hospital oxygen systems globally but is also an opportunity to “build back better. Oxygen therapy is an essential medicine and core component of hospital systems that has been a standard of care for more than 100 years.¹ However, access to oxygen therapy is limited in many low-resource settings, where the majority of hypoxemic patients who are admitted to the hospital will not receive oxygen, resulting in an increased risk of death. However, our work has shown that effective and sustainable change is possible.

6. SAMPLE CODING

Register.html

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
body {
  font-family: Arial, Helvetica, sans-serif;
  background-color: black;
}

* {
  box-sizing: border-box;
}

/* Add padding to containers */
.container {
  padding: 16px;
  background-color: white;
}

body{
  border: 60px solid ;
  padding: 15px;
  border-image: url(img0.jpg) 30 stretch;
}

/* Full-width input fields */
input[type=text], input[type=password] {
width: 100%;
  padding: 15px;
  margin: 5px 0 22px 0;
  display: inline-block;
  border: none;
  background: #f1f1f1;
}

input[type=text]:focus, input[type=password]:focus {
  background-color: #ddd;outline: none;}
```

```

    /* Overwrite default styles of
hr */hr {
    border: 1px solid #33afff;
    margin-bottom: 25px;
}

/* Set a style for the submit button */
.registerbtn {
    background-color: #4b72b9;
    color: white;
    padding: 16px 20px;
    margin: 8px 0;
    border: none;
    cursor: pointer;
    width: 100%;
    opacity: 0.9;
}
.registerbtn:hover {
    opacity: 1;
}

/* Add a blue text color to links */
a {
    color: dodgerblue;
}

/* Set a grey background color and center the text of the "sign in" section */
.signin {
    background-color: #f1f1f1;
    text-align: center;
}
</style>
</head>
<body>

<form action="/action_page.php">
    <div class="container">
        <h1>Register</h1>
        <p>Please fill in this form to create an account.</p>
        <hr>

        <label for="name"><b>Name</b></label>

```

```

<label for="phn"><b>Phone Number</b></label>
<input type="text" placeholder="Enter Phone no" name="phn" id="phn"
required>

<label for="email"><b>Email</b></label>
<input type="text" placeholder="Enter Email" name="email" id="email"
required>

<label for="add"><b>Address</b></label>
<input type="text" placeholder="Enter Address" name="add" id="add"
required>

<label for="psw"><b>Password</b></label>
<input type="password" placeholder="Enter Password" name="psw"
id="psw" required>

<label for="psw-repeat"><b>Repeat Password</b></label>
<input type="password" placeholder="Repeat Password" name="psw-repeat"
id="psw-repeat" required>
<hr>

<button type="submit" class="registerbtn">Register</button>
</div>

<div class="container signin">
  <p>Already have an account? <a href="#">Sign in</a>.</p>
</div>
</form>

</body>
</html>

```

Login.html

```

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
body { font-family: Arial, Helvetica, sans-serif;}
form {border: 3px solid #f1f1f1;}
input[type=text],input[type=

```

```
margin: 8px 0; display: inline-  
block; border: 1px solid #ccc;  
    box-sizing: border-box;  
}  
  
body{  
    border: 60px solid ;  
    padding: 15px;  
    border-image: url(img1.jpg) 30 stretch;  
}  
button {  
    background-color: #33afff;  
    color: white;  
    padding: 14px 20px;  
    margin: 8px 0;  
    border: none;  
    cursor: pointer;  
    width: 100%;  
}  
  
button:hover {  
    opacity: 0.8;  
}  
  
.cancelbtn {  
    width: auto;  
    padding: 10px 18px;  
    background-color: #33afff;  
}  
  
.imgcontainer {  
    text-align: center;  
    margin: 24px 0 12px 0;
```

```

.container { padding: 16px;
}

span.psw {
    float: right;
    padding-top: 16px;
}

/* Change styles for span and cancel button on extra small screens */
@media screen and (max-width: 300px) {
    span.psw {
        display: block;
        float: none;
    }
    .cancelbtn {
        width: 100%;
    }
}
</style>
</head>
<body>

<h2>User Login</h2>

<form action="/action_page.php" method="post">
    <div class="imgcontainer">
        
    </div>

    <div class="container">
        <label for="uname"><b>Username</b></label>
        <input type="text" placeholder="Enter Username" name="uname" required>

        <label for="psw"><b>Password</b></label>
        <input type="password" placeholder="Enter Password" name="psw"
required>

        <button type="submit">Login</button>
        <label>

```

```

        <input type="checkbox" checked="checked" name="remember">
Remember me
    </label>
</div>

<div class="container" style="background-color:#f1f1f1">
    <button type="button" class="cancelbtn">Cancel</button>
    <span class="psw">Forgot <a href="#">password?</a></span>
</div>
</form>

</body>
</html>

```

AddStock.html

```

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
body { font-family: Arial, Helvetica, sans-serif;}
* {box-sizing: border-box;}

input {
    width: 88%;
    float: right;
    height: 38px;
    margin-top: 5px;
    text-align: right;
    text-indent: 5px;
    font-size: 12.6pt;
    border-radius: 10px;
    border: solid 1.5px #D3D3D3;
    -webkit-transition: 1s; /* Safari */
    transition: 1s;
}
input[type=text]:hover{
    box-shadow: 0 0 5pt 0.5pt #D3D3D3;
}
input[type=text]:focus {
    box-shadow: 0 0 5pt 2pt #D3D3D3;
    outline-width: 0px;
}

```

```

.form-inline {
  display: flex;
  flex-flow: row wrap;
  align-items: center;
  text-align: center;
}

form {
  border-radius: 15px;
  background-color: #f2f2f2;
  padding: 30px;
}
body{
  border: 50px solid ;
  padding: 15px;
  border-image: url(img6.jpg) 30 stretch;
}
.form-inline label {
  margin: 5px 10px 5px 0;
}

.form-inline input {
  vertical-align: middle;
  margin: 5px 10px 5px 0;
  padding: 10px;
  background-color: #fff;
  border: 1px solid #ddd;
}

.form-inline button {
  padding: 10px 100px;
  background-color: #ffc0cb;
  border: 1px solid #ddd;
  color: black;
  font-size: 20px;
  cursor: pointer;
  width: 100%;
  margin-left: 400px;
}

form{
  border: 1px solid;

```



```
padding: 10px;
box-shadow: 8px 10px 5px 7px #888888;
}
```

```
.form-inline button:hover {
background-color: #ff1493;
}
```

```
@media (max-width: 800px) {
.form-inline input {
margin: 10px 0;
}
```

```
.form-inline {
flex-direction: column;
align-items: stretch;
}
}
```

```
div {
margin-bottom: 10px;
}
```

```
label {
display: inline-block;
width: 135px;
text-align: right;
}
```

```
button{
align:left;}
</style>
```

```
</head>
```

```
<body>
<center>
```

```
<h2>Add Stock</h2>
```

```
<form class="form-inline" action="/action_page.php">
```

```
<label for="wc">Water Capacity:</label>
```

```
<input type="text" id="wc" placeholder="Enter Water Capacity" name="wc">
```

```
<label for="wp">Working Pressure:</label>
```

```
<input type="text" id="wp" placeholder="Enter Working Pressure"
name="wp">
```

```
<label for="op">Oxygen Purity:</label>
```

```
<input type="text" id="op" placeholder="Enter Oxygen Purity" name="op">
```

```

<label for="nog">Name of Gas:</label>
<input type="text" id="nog" placeholder="Enter Name of Gas" name="nog">
<label for="mat">Material:</label>
<input type="text" id="mat" placeholder="Enter Material" name="mat">
<label for="co">Country of Origin:</label>
<input type="text" id="co" placeholder="Enter Country of Origin" name="co">
<label for="ch">Cylinder Height:</label>
<input type="text" id="ch" placeholder="Enter Cylinder Height" name="ch">
<label for="gt">Gas Type:</label>
<input type="text" id="gt" placeholder="Enter Gas Type" name="gt">
<label for="ci">Cylinder Image:</label>
<input type="file" id="ci" size="30" name="ci">
<label for="ocq">Cylinder Quality:</label>
<input type="text" id="ocq" placeholder="Enter Cylinder Quality"
name="ocq">
<label for="ppc">Price:</label>
<input type="text" id="ppc" placeholder="Enter Price(Per Cylinder)"
name="ppc">
<div>
<button type="submit">Submit</button></center></div>
</form>

</center>
</body>
</html>

```

Home.html

```

<!DOCTYPE html>
<html>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome/4.7.0/css/font-awesome.min.css">
<style>
body { font-family: Arial, Helvetica, sans-serif; }

.navbar {
width: 100%;
background-color: #00008b;
overflow: auto;
float: right;
}

```

```

        .navbar {float:
padding: 12px;color:
white;
        text-decoration: none;
        font-size: 17px;
    }

    .navbar a:hover {
        background-color:#1e90ff;
    }
    .active {
        background-color: #00008b;
    }

    body {
        background-image: url('i2.jpg');
        background-repeat: no-repeat;
        background-attachment: fixed;
        background-size: 100% 100%;
    }

    @media screen and (max-width: 500px) {
        .navbar a {
            float: none;
            display: block;
        }
    }

</style>
<body>

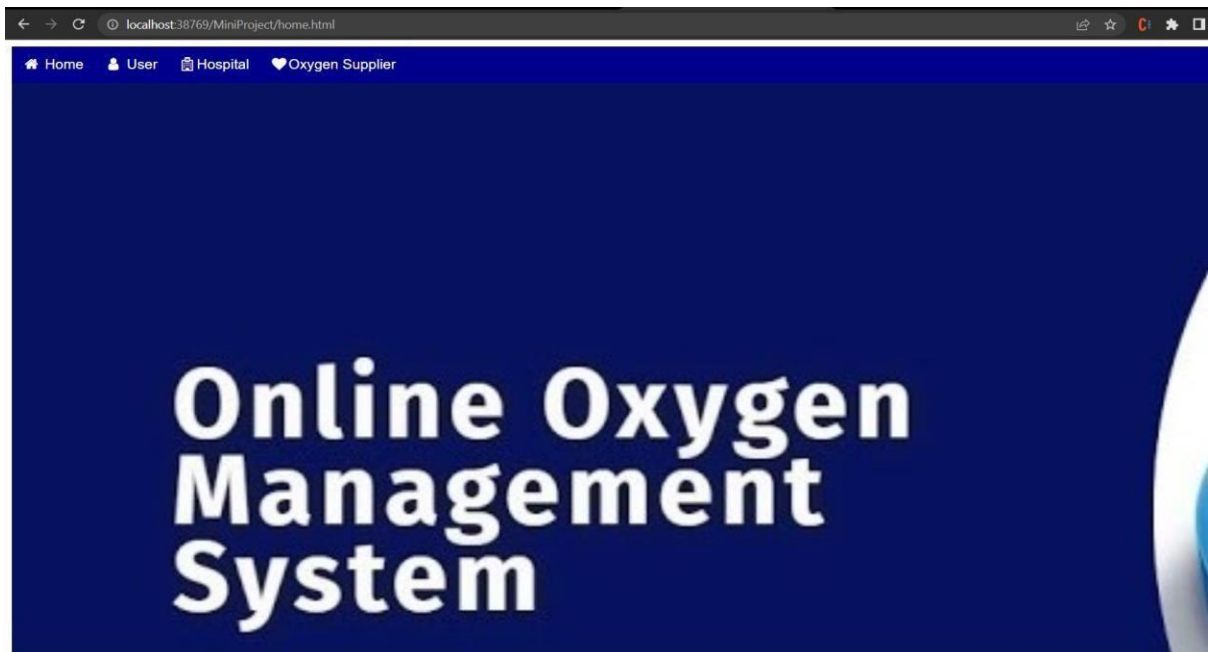
<div class="navbar">
    <a class="active" href="#"><i class="fa fa-fw fa-home"></i> Home</a>
    <a href="#"><i class="fa fa-fw fa-user"></i> User</a>
    <a href="#"><i class="fa fa-fw fa-hospital-o"></i>Hospital</a>
    <a href="#"><i class="fa fa-fw fa-heart"></i>Oxygen Supplier</a>
</div>

</body>
</html>

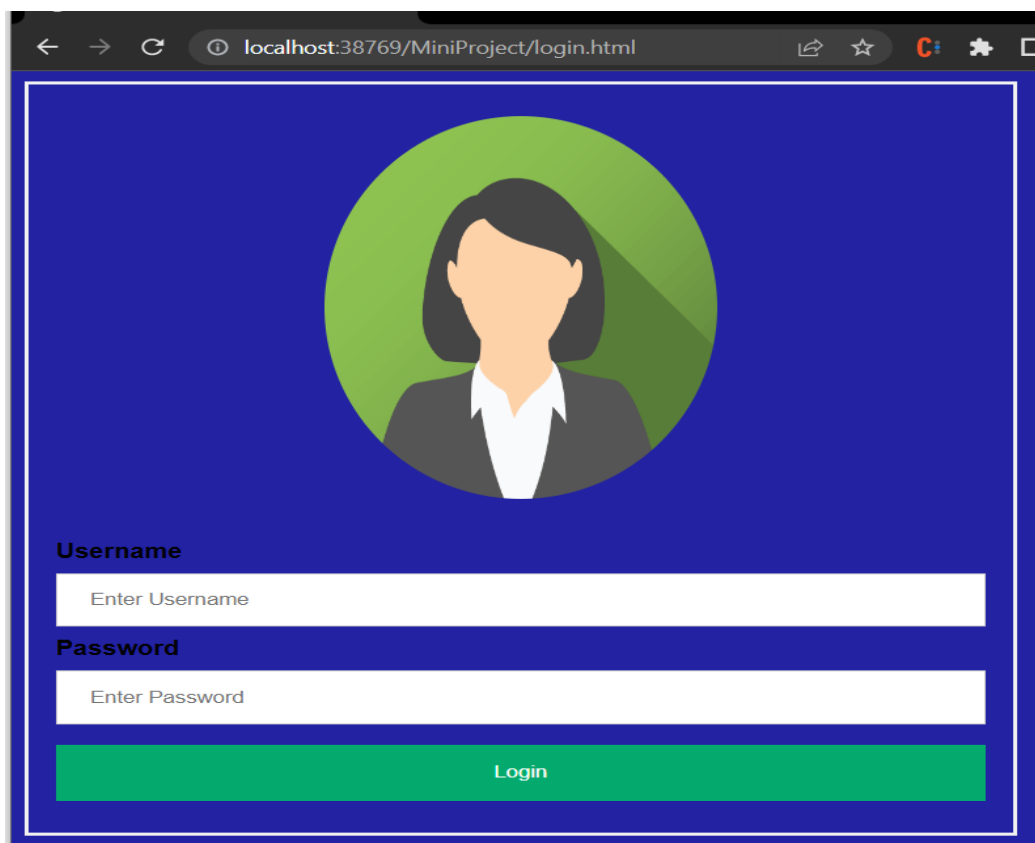
```

7. APPENDICS

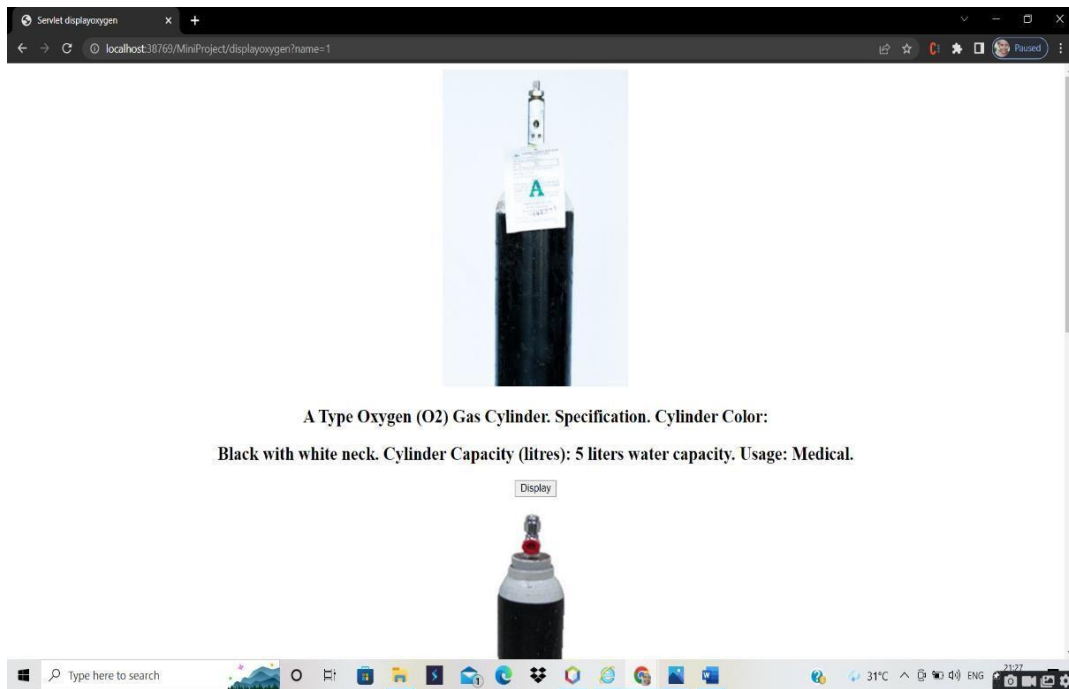
Home page



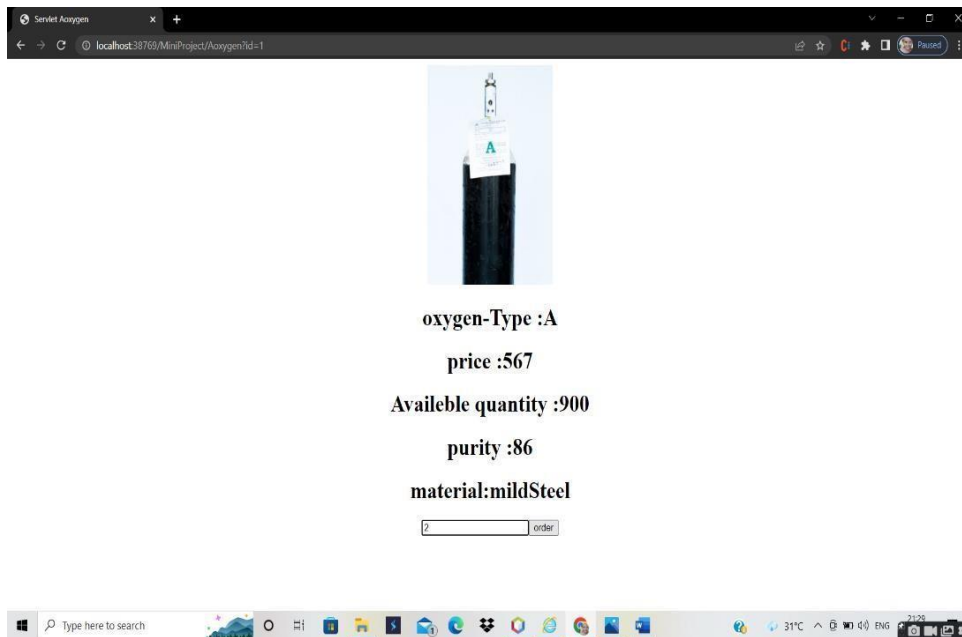
Login page



Display page



Order page



order sucessfull

[back to home page](#)

Supplier login page

Oxygen Supplier Login

ID
192001

Password
.....

Login

☐ Remember me

Adding stock

ADD STOCK192001

Emp_id:192001

oxygen-Type :A	oxygen-Type :B	oxygen-Type :D
price :567	price :899	price :765
Availble quantity :898	Availble quantity :120	Availble quantity :113
purity :86	purity :78	purity :90
material:mildSteel	material:mediumSteel	material:mildsteel
<input type="text" value="4"/>	<input type="text" value="enter quantity"/>	<input type="text" value="enter quantity"/>

add Stock

8. REFERENCES

- [1] Murach's Java Servlets and JSP, 3rd Edition
- [2] Head First Servlet and JSP-OREILLY
- [3] Apache, and MySQL Web Development (Programmer to Programmer) by Elizabeth Narmore
- [4] MySQL Website Programming: Problem - Design Solution by Chris Lea, Mike Buzzard, Dilip Thomas, Jesse White-Cinis2, Apache, and
- [5] MySQL Web Development (Programmer to Programmer) by Elizabeth Narmore3. MySQL/PHP Database Applications, 2nd Edition by Brad Bulger