**# Restroom Booking System**

**## Description**

The Restroom Booking System is a web application that allows users to register, authenticate, and manage restroom bookings. The system includes user authentication, customer management (add, edit/reset, delete), and booking management. The frontend is built using HTML, CSS, and Bootstrap, while the backend is developed in PHP with MySQL as the database, managed through XAMPP.

**## Features**

- User authentication (login, registration, logout)

- Add, edit/reset, and delete customers

- Book and manage restroom reservations

- Responsive design using Bootstrap

- Database management using MySQL

**## Technologies Used**

- \*\*Frontend:\*\* HTML, CSS, Bootstrap

- \*\*Backend:\*\* PHP

- \*\*Database:\*\* MySQL (managed via XAMPP)

- \*\*Server:\*\* Apache (via XAMPP)

**## Installation Guide**

**### Prerequisites**

1. Install \*\*XAMPP\*\*: [Download XAMPP](https://www.apachefriends.org/index.html)

2. Start \*\*Apache\*\* and \*\*MySQL\*\* from XAMPP Control Panel

3. Create a database in phpMyAdmin

**### Steps to Setup**

**1. \*\*Clone the repository\*\***

```sh

git clone https://github.com/yourusername/restroom-booking.git

```

**2. \*\*Move the project to the XAMPP htdocs folder\*\***

```sh

mv restroom-booking /xampp/htdocs/

```

**3. \*\*Create a Database\*\***

- Open `phpMyAdmin` in your browser: `http://localhost/phpmyadmin/`

- Create a new database: `restroom\_db`

- Import `database.sql` (provided in the project)

**4. \*\*Configure Database Connection\*\***

- Open `config.php` in the project folder

- Update the database credentials:

```php

<?php

$host = "localhost";

$user = "root";

$password = ""; // Default for XAMPP

$dbname = "restroom\_db";

$conn = new mysqli($host, $user, $password, $dbname);

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

?>

```

**5. \*\*Run the Project\*\***

- Open your browser and go to:

```

http://localhost/restroom-booking/

```

- Register a new user and log in.

**## Folder Structure**

```

restroom-booking/

│── index.php # Homepage

│── login.php # User authentication

│── register.php # User registration

│── dashboard.php # Admin dashboard

│── add\_customer.php # Add new customer

│── edit\_customer.php # Edit customer details

│── delete\_customer.php # Delete customer

│── config.php # Database configuration

│── styles/ # CSS files

│── scripts/ # JavaScript files

│── assets/ # Images & static files

│── database.sql # Database schema & sample data

```

**## Usage**

**1. \*\*User Authentication\*\***

- New users must register before logging in.

- Login with a registered email and password.

**2. \*\*Customer Management\*\***

- Admin can add new customers.

- Customers can be edited or their details reset.

- Customers can be deleted if no longer needed.

**3. \*\*Booking System\*\***

- Users can book a restroom slot.

- Admin can view and manage all bookings.

**## Contributions**

Feel free to contribute by submitting pull requests.

**## Contact**

For any issues or support, email \*\**matyostsegay@gmail.com*\*\*.