HOTEL RESERVATION SYSTEM

MEMBER DETAILS :

SAYAN KUNDU :

- **Front-End-Development :** Structure and architecture of the Web Page using HTML and also providing it an unique style and layout using CSS.
- **Back-End Development** : Creating database using mysql to store the structured data and Connecting the webpage to database i.e sql servers using mysql extensions of PHP.

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- SYSTEM DESIGN
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- ## DEPLOYMENT (DESCRIPTION OF DEPLOYEMENT ENVIRONMENT,DEPLOYEMENT PROCESS)
- ## FUTURE ENHANCEMENTS (SUGGETIONS FOR FUTURE ENHANCEMENT OR ADDITIONAL FEATURES)
- ## CONCLUSION (SUMMARY OF ACHIEVEMENTS,LESSON LEARNED)
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INTRODUCTION :

Welcome to our hotel reservation website creation project! In this exciting venture, we will embark on a journey to design and develop a cutting-edge online platform that streamlines the process of booking accommodations for travelers worldwide.

Our primary objective is to create a user-friendly, intuitive, and visually captivating website that not only showcases our hotel offerings but also provides a seamless booking experience for our guests. With the ever-growing demand for convenient and hassle-free travel planning, our website will serve as a trusted

destination for travelers to discover, compare, and reserve accommodations with ease.

Throughout this project, we will focus on the following key components:

1. Understanding Guest Needs: We will conduct thorough research to gain insights into the preferences, expectations, and pain points of our target audience. By understanding their needs, we can tailor our website to provide a personalized and memorable experience for every guest.

2. Design and User Experience: Our team of talented designers will work diligently to create a visually stunning and intuitive interface that captures the essence of our hotel brand. We will prioritize usability, accessibility, and responsiveness to ensure that guests can easily navigate the website and make reservations on any device.

3. Feature-rich Reservation System: Leveraging state-of-the-art technology, we will develop a robust reservation system that enables guests to search for available rooms, view detailed descriptions and images, and book accommodations seamlessly. The system will also incorporate features such as real-time pricing, flexible booking options, and secure payment gateways to enhance the booking process.

4. Content and Imagery: Compelling and engaging content is essential for showcasing the unique features and amenities of our hotel. We will create captivating descriptions, high-quality images, and virtual tours to entice guests and provide them with a glimpse of the unparalleled experiences that await them.

5. Integration and Scalability: Our website will be designed to integrate seamlessly with third-party booking platforms, channel managers, and payment gateways to streamline operations and maximize revenue opportunities. Additionally, we will ensure that the website is scalable and adaptable to accommodate future growth and expansion.

6. Testing and Optimization: Rigorous testing procedures will be conducted to identify and resolve any issues related to functionality, performance, and security. We will continuously optimize the website based on user feedback and analytics data to enhance the overall guest experience.

For creating a Hotel Reservation Website it requires the use of the following programming languages:

HTML:

HTML plays a crucial role in shaping the structure and layout of the Web page. HTML is used to define the sematic structure of the website including headers , footers , navigation menus , main content section , forms . HTML tags are used to markup the content of the websites such as: hotel description , room details , amenities , and booking forms.

CSS:

CSS is used to create responsive layouts , defining the position of the elements and establish the overall structure of the website's user interface. CSS styles font family,size,color,weight and spacing ensures consistency and readability.

JAVASCRIPT :

For the hotel reservation website project, we will primarily utilize JavaScript for both client-side and server-side development. JavaScript is a versatile and widely-used programming language that allows us to create dynamic and interactive web applications. With its extensive ecosystem and frameworks, JavaScript enables us to build a robust and scalable website that meets the demands of modern web development.

REACT.JS :

We can use React.js , a popular Javascript library for building user interface, to create the front-end of our website. React js provides a component based architecture , making it easier to manage complex UI components and enhance code reasonability.
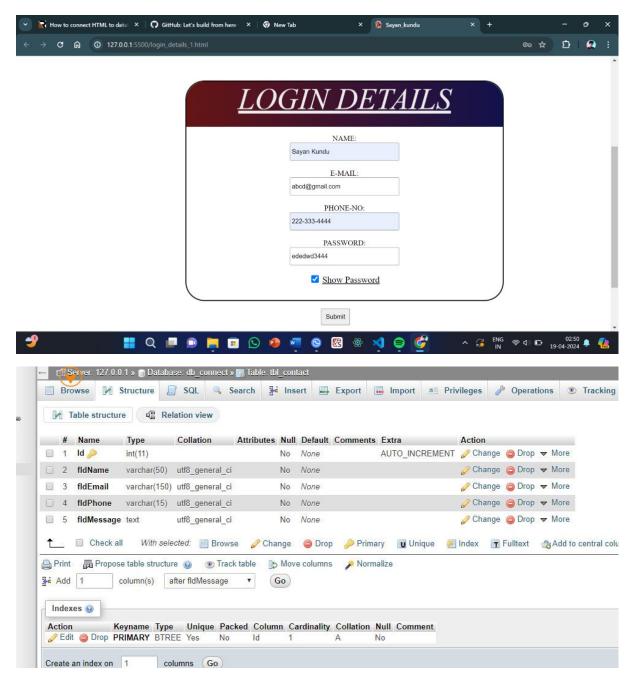
SYSTEM DESIGN :

For hotel reservation website project , we will adopt a modern and scalable architechture that encompasses both front end and back end components.

The Front end of the website can be built using React.js . React's component based architecture allows for the creation of reusable UI components,faciliating modular development and easier maintainance.
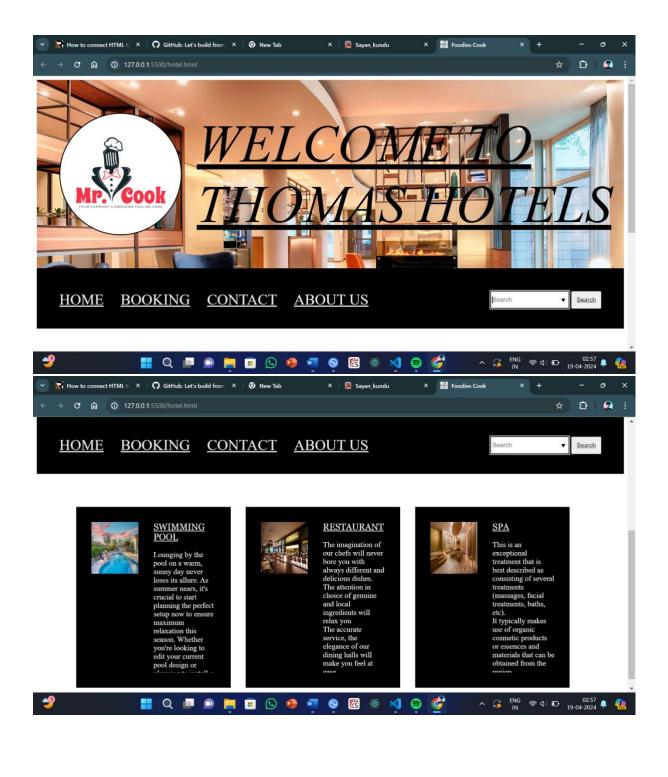
We can also use HTML tags such as : headers , navigation , booking forms , reservation summaries. These components can be composed together to create various pages and views of the website.

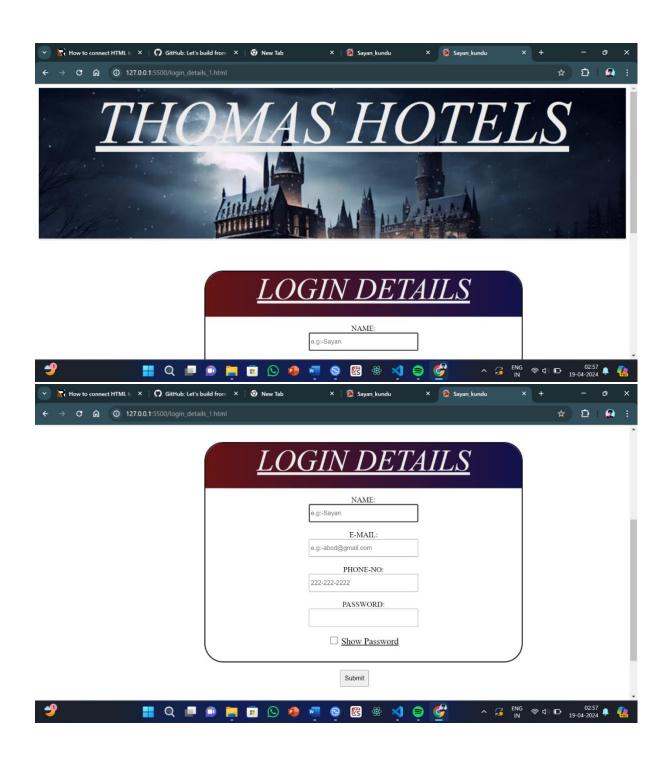For backend we can use mysql to create tables according to the requirements of the websites and can store structured data. We can also make use of PHP which would provide connections with sql server using mysqli extensions.
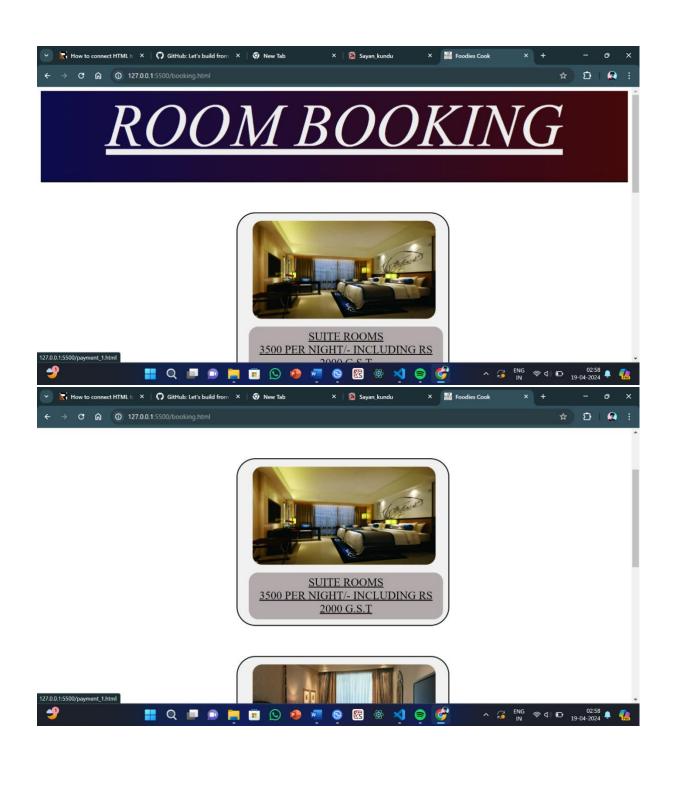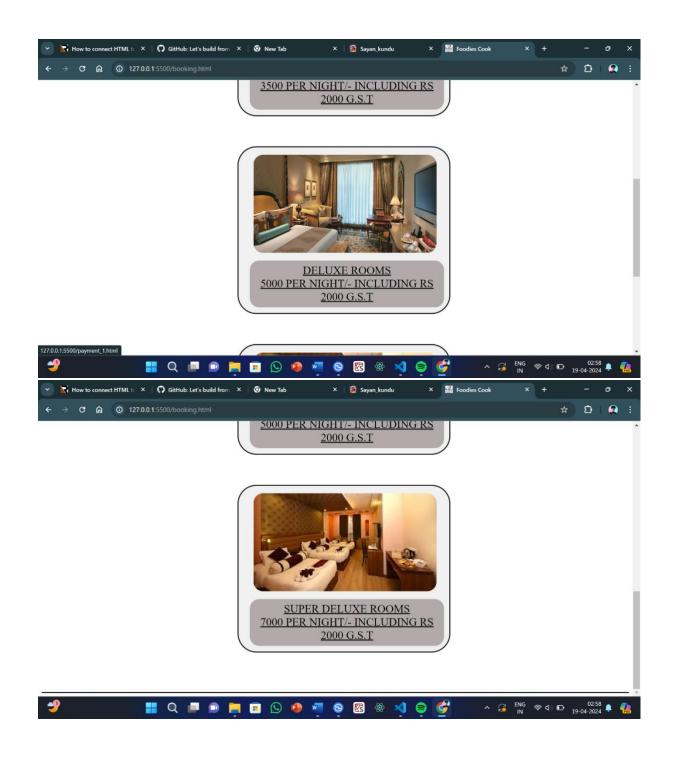
So this snaps shows that the login details of the customer is stored in the tbl_contact in the database and this is made possible by means of mysql and PHP.

So the user interface looks somewhat like this:

WELCOME TO THOMAS HOTELS

HOME   BOOKING   CONTACT   ABOUT US

Search ▼   Search

HOME   BOOKING   CONTACT   ABOUT US

Search ▼   Search

SWIMMING POOL

Lounging by the pool on a warm, sunny day never loses its allure. As summer nears, it's crucial to start planning the perfect setup now to ensure maximum relaxation this season. Whether you're looking to edit your current pool design or planning to install a

RESTAURANT

The imagination of our chefs will never bore you with always different and delicious dishes. The attention in choice of genuine and local ingredients will relax you The accurate service, the elegance of our dining halls will make you feel at ease

SPA

This is an exceptional treatment that is best described as consisting of several treatments (massages, facial treatments, baths, etc). It typically makes use of organic cosmetic products or essences and materials that can be obtained from the region

THOMAS HOTELS

LOGIN DETAILS

NAME:

e.g:-Sayan

LOGIN DETAILS

NAME:

e.g:-Sayan

E-MAIL:

e.g:-abcd@gmail.com

PHONE-NO:

222-222-2222

PASSWORD:

☐ Show Password

Submit

ROOM BOOKING

SUITE ROOMS
3500 PER NIGHT/- INCLUDING RS
2000 G.S.T

SUITE ROOMS
3500 PER NIGHT/- INCLUDING RS
2000 G.S.T

3500 PER NIGHT/- INCLUDING RS
2000 G.S.T

DELUXE ROOMS
5000 PER NIGHT/- INCLUDING RS
2000 G.S.T

5000 PER NIGHT/- INCLUDING RS
2000 G.S.T

SUPER DELUXE ROOMS
7000 PER NIGHT/- INCLUDING RS
2000 G.S.T

PAYMENT GATEWAY

⬤ 💳 CREDIT/DEBIT CARD

⬤ 🔻 UPI PAYTM/GOOGLE PAY

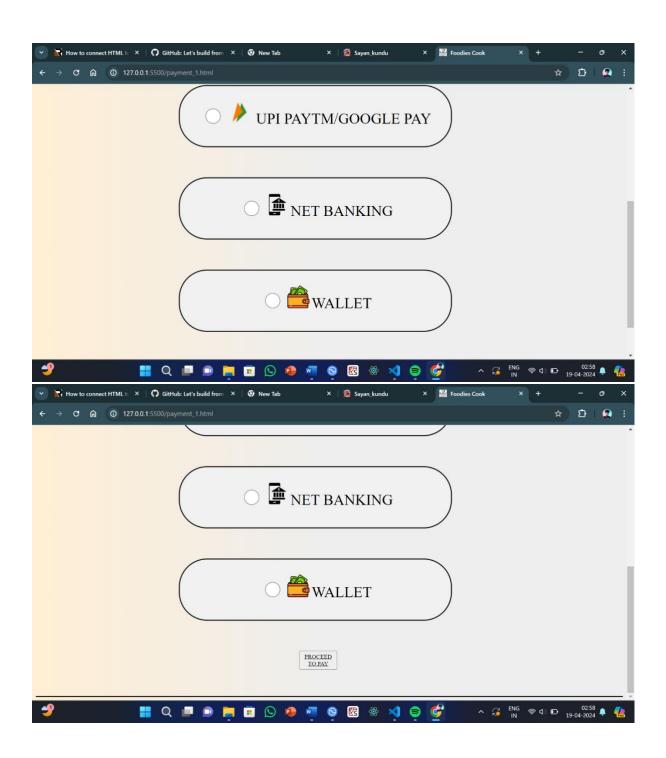⬤ 💳 CREDIT/DEBIT CARD
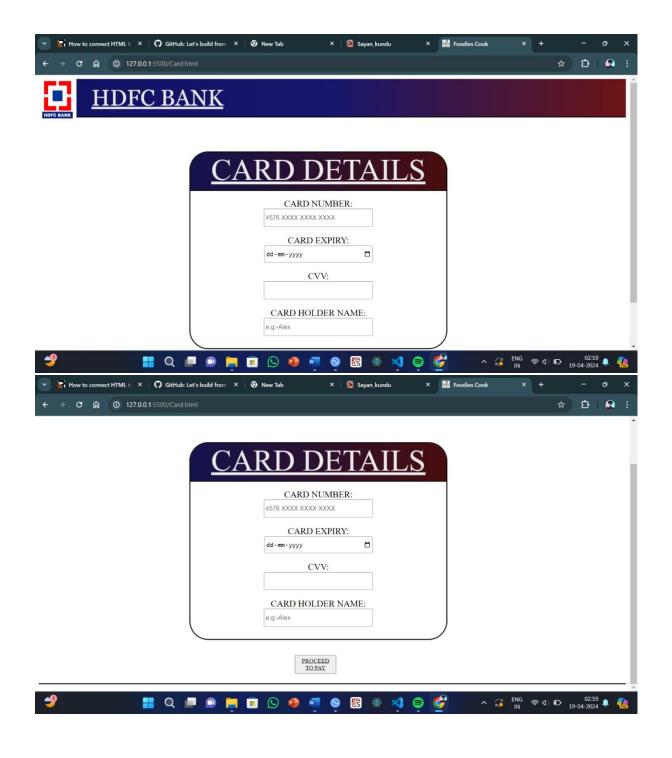
⬤ 🔻 UPI PAYTM/GOOGLE PAY

⬤ 🏦 NET BANKING

IMPLEMENTATION:

So basically we have made use of HTML , CSS , PHP , Javascript , React Js for creating this Hotel Reservation Portal.

Firstly using the various tags such as section , div , span etc we have tried to develop the basic structure and architecture of the website which includes headings , creating div boxes etc and enchanced the overall look of the site using various CSS elements such as background image , background color, font size , font family , width and height of various sections and div's , buttons to proceed or submit certain details . Now with the blend of javascript we add special effects and dynamic behaviour to our webpages . It helps us to execute complex actions and also enables the interaction of websites with users . Also we have applied PHP for database connecions with the help of mysqli extensions.

Hotel.HTML:

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Foodies Cook</title>
        <link rel="stylesheet" href="hotel.css" type="text/css">
        <link rel="icon" href="img/img/cook_logo.jpg" type="image/x-icon">
    </head>
    <body>
        <section class="foodie">
            <img src="img/img/cook.png" alt="cook" title="cook" height="80" width="80">
            <span class="kitchen">Welcome To Thomas Hotels</span>
        </section>
        <section class="top">
            <a href="login_details_1.html">HOME</a>
            <a href="booking.html">BOOKING</a>
```

```html
            <a href="contact.html">CONTACT</a>
            <a href="about_1.html">ABOUT US</a>
            <span class="search">
                <input type="text" name="search" id="search" autofocus="On"
list="Recipe-list" placeholder="Search">
                <datalist id="Recipe-list">
                    <option value="Burger">Suite Rooms</option>
                    <option value="Pizza">Deluxe Rooms</option>
                    <option value="Garlic Bread">Swimming Pool</option>
                    <option value="Tacos">Banquet</option>
                    <option value="Chicken Wings">Spa</option>
                    <option value="Biriyani">Game Zone</option>
                </datalist>
                <button class="found">Search</button>
            </span>
            <section class="variety">
                <div class="Pizza">
                    <img src="img/img/swimming.jpg" alt="Pizza" title="Pizza"
height="110" width="100">
                    <span class="pizza_write"><span
class="head_pizza">Swimming Pool</span>
                        <br><br>Lounging by the pool on a warm, sunny day
never loses its allure.
                        As summer nears, it's crucial to start planning the
perfect setup now to ensure maximum relaxation this season.
                        Whether you're looking to edit your current pool
design or planning to install a pool for the first time,
                        we have you covered with plenty of striking swimming
pool designs to help inspire the summer days ahead.
                        From a Tuscan-style retreat to a rustic farmhouse
swimming pool, an indoor lap pool, and adjacent outdoor bars,
                        these design-savvy pools will make you want to dive
right in and float the day away.
                        So take a mental vacation and jot down some style
notes to make your dream pool a sweet reality.
                    </span>
                </div>
                <div class="Pizza">
                    <img src="img/img/restaurant.jpg" alt="Burger"
title="Burger" height="110" width="100">
                    <span class="pizza_write"><span
class="head_pizza">Restaurant</span>
                        <br><br>The imagination of our chefs will never bore
you with always different and delicious dishes.<br>
                        The attention in choice of genuine and local
ingredients will relax you<br>
                        The accurate service, the elegance of our dining halls
will make you feel at ease.<br>
```

```
                              The availability of our friendly staff will pamper
you.<br>
                              You will always have a wide choice of vegetables on
the buffet to be seasoned with oil of our land.<br>
                              You can always choose meat or fish courses or one of
ours delicious dishes, a soup or a cold dish.<br>
                              As the last course you can always choose between fresh
fruit, a fruit salad, ice cream or a dessert prepared by our pastry chef.<br>
                       </span>
                  </div>
                  <div class="Pizza">
                       <img src="img/img/spa.jpg" alt="Tacos" title="Tacos"
height="110" width="100">
                       <span class="pizza_write"><span
class="head_pizza">Spa</span>
                              <br><br>This is an exceptional treatment that is best
described as consisting of several treatments (massages, facial treatments,
baths, etc).<br>
                              It typically makes use of organic cosmetic products or
essences and materials that can be obtained from the region.<br>
                              The aim is to uniquely pamper the guest.
                              Therefore, this kind of treatment usually lasts longer
than an hour.<br>
                              The name of the treatment also suggests a special
meaning: a Signature Treatment should be the house specialty and can be
compared to a kind of business card.<br>
                              A Signature Treatment should convey a lasting
impression to the guest as well as reflect the character of the region and of
the facilities.<br>
                       </span>
                  </div>
            </section>
        </section>
    </body>
</html>
```

Hotel.css:

```css
.foodie{
    height: 25rem;
    background-image: url(../img/img/hotel_4.jpg);
    background-size: cover;
    display: flex;
    justify-content: center;
    align-items: center;
    gap: 2rem;
```

```css
        flex-wrap: nowrap;
}
.foodie img{
    width: 18rem;
    height: 16rem;
    border: 2px solid #000;
    border-radius: 80%;
    margin-left: 3rem;
}
.kitchen{
    font-size: 7rem;
    font-family: 'Times New Roman', Times, serif;
    font-style: italic;
    font-weight: 200;
    text-decoration: underline;
    text-transform: uppercase;
    color: #000;
}
.top{
    height: 4rem;
    background-color: #000;
    padding: 2rem;
}
.top a{
    display: inline-block;
    font-size: 2rem;
    padding: 1rem;
    color: #eee;
    text-decoration: underline;
}
.top a:hover{
    background-color: #eee;
    color: #000;
    padding: 1rem;
}
.search{
    float: right;
    padding: 1rem;
}
.search input{
    width: 10rem;
    height: 2rem;
}
.found{
    padding: 0.6rem;
    font-size: 0.8rem;
    text-decoration: underline;
    font-style: bold;
```

```css
}
.variety{
    height: 32rem;
    width: 72rem;
    display: flex;
    gap: 2rem;
    justify-content: center;
    align-items: center;
}
.Pizza{
    width: 16.5rem;
    height: 20rem;
    padding: 2rem;
    background-color: #000;
    color: #eee;
    margin-top: 4rem;
    display: flex;
    gap: 2rem;
}
.pizza_pics{
    width: 6rem;
    height: 5rem;
    padding: 1rem;
    border: 2px solid #00f;
}
.pizza img{
    width: 12rem;
    height: 10rem;
}
.pizza_write{
    color: #eee;
    font-size: 1rem;
    font-family: 'Times New Roman', Times, serif;
    overflow: hidden;
    width: 24rem;
    height: 20rem;
}
.head_pizza{
    font-size: 1.2rem;
    color: #eee;
    text-decoration: underline;
    font-family: Georgia, 'Times New Roman', Times, serif;
    font-style: bold;
    text-transform: uppercase;
}/*
.Details input{
    width: 16rem;
    height: 1rem;
```

```css
    padding: 1rem;
}
h1{
    font-size: 6rem;
    font-family: 'Times New Roman', Times, serif;
    text-align: center;
    color: brown;
    font-style: bold;
    font-style: italic;
    text-decoration: underline;
    text-transform: uppercase;
} */
```

Login_Details_1.HTML:

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8">
        <meta name="Author" content="Sayan Kundu">
        <meta name="About" content="This Web Page will let you know eberything
about Sayan Kundu">
        <title>Sayan_kundu</title>
        <link rel="stylesheet" href="active_graamar.css" type="text/css">
        <link rel="icon" href="img/img/Spiderman.jpg" type="image/x-icon">
    </head>
    <body>
        <section class="head">
            <span class="eng_lang">Thomas Hotels</span>
        </section>
        <section class="box">
            <div class="active_grammar_1">
                <section class="Grammar_write">
                    <span class="head_eng">login details</span>
                </section>
                <form action="login.php" method="post">
                    <p class="zero">
                        <label class="Name">Name:</label><br>
                        <input type="text" name="Name" id="Name"
placeholder="e.g:-Sayan" autofocus="On"><br><br>
                        <label class="Name">E-mail:</label><br>
                        <input type="text" name="E-mail" id="E-mail"
placeholder="e.g:-abcd@gmail.com"><br><br>
                        <label class="Name">Phone-No:</label><br>
                        <input type="tel" name="Phone" id="Phone" pattern="[0-
9]{3}[0-9]{3}[0-9]{4}" placeholder="222-222-2222"><br><br>
                        <label class="Name">Password:</label><br>
```

```html
                        <input type="password" name="password"
id="password"><br><br>
                        <span class="password_visible"><input type="checkbox"
onclick="words_pass()"></span>
                        <label class="pass_show">Show Password</label>
                    </p>
                </form>
            </div>
            <script>
                function words_pass()
                {
                    var x=document.getElementById("password");
                    if(x.type=="password")
                    {
                        x.type="text";
                    }
                    else{
                        x.type="password";
                    }
                }
            </script>
            <button class="submit">Submit</button>
        </section>
```

Login_Details.css:

```css
.head{
    height: 20rem;
    border-bottom: 2px solid #000;
    background-image: url(../img/img/hogwarts_1.jpg);
    background-size: cover;
    text-align: center;
    border-bottom: 4px solid #eee;
}
.eng_lang{
    font-size: 8rem;
    font-family: 'Times New Roman', Times, serif;
    font-style: bold;
    font-style: italic;
    text-decoration: underline;
    text-transform: uppercase;
    color: #eee;
}
.box{
    height: 42rem;
    border-bottom: 2px solid #000;
    justify-content: center;
```

```css
}
.active_grammar{
    width: 42rem;
    height: 26rem;
    border: 2px solid #000;
    margin-left: 22rem;
    margin-top: 4rem;
    border-radius: 40px;
}
.head_eng{
    font-size: 4rem;
    text-transform: uppercase;
    text-decoration: underline;
    font-family: 'Times New Roman', Times, serif;
    font-style: bold;
    font-style: italic;
    color: #eee;
}
.Grammar_write{
    height: 6rem;
    text-align: center;
    background-image: linear-gradient(to right,rgb(103, 21, 21),rgb(18, 18, 77));
    background-size: cover;
    border-top-left-radius: 39px;
    border-top-right-radius: 39px;
}
.active_grammar li{
    font-size: 1rem;
    font-family: 'Times New Roman', Times, serif;
    text-align: center;
}
.active_grammar input{
    width: 8rem;
    height: 1rem;
}
.head_option{
    height: 25rem;
    border-bottom: 2px solid #000;
}
.eng_option{
    width: 32rem;
    height: 20rem;
    padding: 1rem;
    margin-left: 23rem;
    margin-top: 4rem;
    border-radius: 40px;
    display: flex;
```

```css
    border: 2px solid #000;
    background-image: linear-gradient(to right,rgb(83, 14, 14),rgb(16, 16,
75));
}
.grammar_option{
    width: 20rem;
    height: 19rem;
}
.verbs{
    width: 12rem;
    height: 2rem;
    text-align: center;
    border: 2px solid #000;
    margin-left: 1.5rem;
    margin-top: 2rem;
    border-radius: 30px;
    font-size: 1.5rem;
    font-family: 'Times New Roman', Times, serif;
    font-style: bold;
    text-decoration: underline;
    text-transform: uppercase;
    background-color: rgb(140, 86, 95);
}
.grammar_option a:hover{
    color: #000;
}
.head_option{
    height: 32rem;
    border: 2px solid #000;
    background-image: url(../img/img/hogwarts_2.jpg);
    background-size: cover;
}
.submit{
    padding: 0.5rem;
    margin-left: 40rem;
    margin-top: 1rem;
}
.Name{
    font-size: 1rem;
    font-family: 'Times New Roman', Times, serif;
    font-style: bold;
    text-transform: uppercase;
}
.zero input{
    width: 14rem;
    height: 2rem;
}
.active_grammar_1{
```

```css
    width: 42rem;
    height: 29rem;
    border: 2px solid #000;
    margin-left: 22rem;
    margin-top: 4rem;
    border-radius: 40px;
    text-align: center;
}
.password_visible input{
    width: 1rem;
    height: 1rem;
}
.pass_show{
    font-size: 1.2rem;
    font-family: 'Times New Roman', Times, serif;
    font-style: bold;
    text-decoration: underline;
}
```

Booking.HTML:

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Foodies Cook</title>
        <link rel="stylesheet" href="booking.css" type="text/css">
        <link rel="icon" href="img/img/cook_logo.jpg" type="image/x-icon">
    </head>
    <body>
        <section class="book_head">
            <span class="book_write">room booking</span>
        </section>
        <section class="book_box">
            <div class="room_type">
                <a href="payment_1.html"><img src="img/img/suite room.jpg"
alt="room" title="room" width="200" height="200"></a>
                <a href="payment_1.html">
                <div class="des_box">
                    <span class="box_write">
                        Suite Rooms<br>
                        3500 per night/- including Rs 2000 G.S.T
                    </span>
                </div>
                </a>
            </div>
            <div class="room_type">
```

```html
            <a href="payment_1.html"><img src="img/img/deluxe_room.jpg"
alt="room" title="room" width="200" height="200"></a>
                <a href="payment_1.html">
                <div class="des_box">
                    <span class="box_write">
                        Deluxe Rooms<br>
                        5000 per night/- including Rs 2000 G.S.T
                    </span>
                </div>
                </a>
        </div>
        <div class="room_type">
                <a href="payment_1.html"><img src="img/img/super deluxe
room.jpeg" alt="room" title="room" width="200" height="200"></a>
                <a href="payment_1.html">
                <div class="des_box">
                    <span class="box_write">
                        Super Deluxe Rooms<br>
                        7000 per night/- including Rs 2000 G.S.T
                    </span>
                </div>
                </a>
        </div>
        <div class="room_type">
                <a href="payment_1.html"><img src="img/img/thomas spl
room.jpg" alt="room" title="room" width="200" height="200"></a>
                <a href="payment_1.html">
                <div class="des_box">
                    <span class="box_write_1">
                        Thomas spl elite king twin bedroom<br>
                        7500 per night/- including Rs 2000 G.S.T
                    </span>
                </div>
                </a>
        </div>
    </section>
    </body>
</html>
```

Booking.css :

```css
.book_head{
    height: 12rem;
    border-bottom: 2px solid #000;
    background-image: linear-gradient(to right,rgb(12, 12, 77),rgb(69, 9, 9));
    text-align: center;
}
```

```css
.book_write{
    font-size: 8rem;
    font-family: 'Times New Roman', Times, serif;
    font-style: bold;
    font-style: italic;
    text-decoration: underline;
    color: #eee;
    text-transform: uppercase;
}
.book_box{
    height: 105rem;
}
.room_type{
    width: 28rem;
    height: 22rem;
    border: 2px solid #000;
    margin-left: 26rem;
    margin-top: 4rem;
    border-radius: 40px;
    background-color: #f1f1f1;
}
.room_type img{
    width: 24.3rem;
    height: 13rem;
    margin-left: 2rem;
    margin-top: 1rem;
    border-radius: 20px;
}
.des_box{
    width: 25rem;
    height: 5.4rem;
    margin-left: 1.5rem;
    margin-top: 0.8rem;
    border-radius: 20px;
    text-align: center;
    background-color: #b1aaaa;
    padding: 0.4rem;
    overflow: hidden;
}
.box_write{
    font-size: 1.5rem;
    font-family: 'Times New Roman', Times, serif;
    font-style: bold;
    text-decoration: underline;
    text-transform: uppercase;
    color: #000;
}
.box_write_1{
```

```css
    font-size: 1.3rem;
    font-family: 'Times New Roman', Times, serif;
    font-style: bold;
    text-decoration: underline;
    text-transform: uppercase;
    color: #000;
}
```

Payment_1.HTML:

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Foodies Cook</title>
        <link rel="stylesheet" href="payment_1.css" type="text/css">
        <link rel="icon" href="img/img/cook_logo.jpg" type="image/x-icon">
    </head>
    <body>
        <section class="pay_head">
            <span class="pay_write">Payment Gateway</span>
        </section>
        <section class="boundry">
            <div class="pay_box">
                <input type="radio" name="pay" id="pay" value="Card.html">
                <img src="img/img/atm-card.png" alt="card" title="card"
height="100" width="100">
                <label class="credit_write">Credit/Debit Card</label>
            </div>
            <div class="pay_box">
                <input type="radio" name="pay" id="pay" value="UPI.html">
                <img src="img/img/icons8-bhim-48.png" alt="UPI" title="UPI"
width="100" height="100">
                  <label class="credit_write">UPI paytm/google
pay</label>
            </div>
            <div class="pay_box">
                <input type="radio" name="pay" id="pay"
value="Net_Banking.html">
                <img src="img/img/mobile-banking.png" alt="UPI" title="UPI"
width="100" height="100">
                <label class="credit_write">Net Banking</label>
            </div>
            <div class="pay_box">
                <input type="radio" name="pay" id="pay" value="Wallet.html">
                <img src="img/img/wallet.png" alt="UPI" title="UPI"
width="100" height="100">
                <label class="credit_write">Wallet</label>
```

```html
        </div>
        <button type="button" onclick="option_tick()"
class="pay_click">Proceed To Pay</button>
    </section>
    <script>
        function option_tick()
        {
            var x=document.getElementsByName("pay");
            var selectchecked=null;
            var l1=x.length;
            for(var i=0;i<l1;i++)
            {
                if(x[i].checked)
                {
                    selectchecked=x[i];
                    break;
                }
            }
            if(selectchecked !=null)
            {
                window.location.href=selectchecked.value;
            }
            else
            {
                window.alert("Please Select An Payment Option");
            }
        }
    </script>
</body>
```

Payment_1.css :

```css
body{
    background-image: linear-gradient(to right,papayawhip,#eee,#eee);
}
.pay_head{
    height: 15rem;
    border-bottom: 2px solid #000;
    background-image: linear-gradient(to right,rgb(25, 25, 99),rgb(102, 23, 23));
    text-align: center;
}
.pay_write{
    font-size: 8rem;
    font-family: 'Times New Roman', Times, serif;
    font-style: bold;
    font-style: italic;
```

```css
        text-decoration: underline;
        text-transform: uppercase;
        color: #eee;
}
.boundry{
        height: 55rem;
        border-bottom: 2px solid #000;
}
.pay_box{
        width: 36rem;
        height: 6rem;
        padding: 2rem 0 0 0;
        margin-left: 19rem;
        margin-top: 4rem;
        border: 2px solid #000;
        border-radius: 60px;
        text-align: center;
        background-color: #f1f1f1;
}
.pay_box input{
        width: 3rem;
        height: 2rem;
}
.credit_write{
        font-size: 2rem;
        font-family: 'Times New Roman', Times, serif;
        font-style: bold;
        text-transform: uppercase;
}
.pay_box img{
        width: 3rem;
        height: 3rem;
}
.pay_click{
        width: 5rem;
        height: 2.5rem;
        font-size: 0.8rem;
        font-family: 'Times New Roman', Times, serif;
        text-decoration: underline;
        text-transform: uppercase;
        font-style: bold;
        margin-left: 35rem;
        margin-top: 4rem;
}
```

Card.HTML:

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <title>Foodies Cook</title>
        <link rel="stylesheet" href="card.css" type="text/css">
        <link rel="icon" href="img/img/cook_logo.jpg" type="image/x-icon">
    </head>
    <body>
        <section class="hdfc_card">
            <div class="head">
                <img src="img/img/hdfc.png" alt="bank" title="bank" width="100" height="100">
                <span class="hdfc_write">HDFC Bank</span>
            </span>
        </section>
        <section class="card_box">
            <div class="hdfc_box">
                <section class="box_head">
                    <span class="card_head">Card Details</span>
                </section>
                <p class="card_details">
                    <label class="input_data">Card Number:</label><br>
                    <input type="text" name="card_no" id="card_no" placeholder="4576 XXXX XXXX XXXX"><br><br>
                    <label class="input_data">Card Expiry:</label><br>
                    <input type="date" name="Card_expiry" id="Card_expiry"><br><br>
                    <label class="input_data">CVV:</label><br>
                    <input type="password" name="cvv" id="cvv" onclick="input_maxchar()"><br><br>
                    <label class="input_data">Card Holder Name:</label><br>
                    <input type="text" name="holder name" id="holder name" placeholder="e.g:-Alex">
                </p>
            </div>
            <button type="button" class="proceed" onclick="popup()">Proceed To Pay</button>
        </section>
        <p id="demo"></p>
        <script>
            function input_maxchar()
            {
                document.getElementById("cvv").maxLength="3";
            }
        </script>
    </body>
</html>
```

Card.CSS :

```css
.hdfc_card{
    height: 5rem;
    border-bottom: 2px solid #000;
    background-image: linear-gradient(to right,rgb(19, 19, 100),rgb(23, 23,
108),rgb(109, 22, 22));
}
.head img{
    width: 5rem;
    height: 5.5rem;
}
.hdfc_write{
    font-size: 3rem;
    font-family: Georgia, 'Times New Roman', Times, serif;
    font-style: bold;
    text-decoration: underline;
    text-transform: uppercase;
    color: #eee;
    padding: 0.8rem 0 0 0;
}
.head{
    float: left;
    display: flex;
    gap: 2rem;
    align-items: flex-start;
}
.card_box{
    height: 32rem;
    border-bottom: 2px solid #000;
}
.hdfc_box{
    width: 34rem;
    height: 26rem;
    border: 2px solid #000;
    margin-left: 20rem;
    margin-top: 4.5rem;
    border-radius: 40px;
    text-align: center;
}
.box_head{
    height: 5rem;
    border-bottom: 2px solid #000;
    text-align: center;
    background-image: linear-gradient(to right,rgb(20, 20, 79),rgb(74, 14,
14));
    border-top-left-radius: 38px;
    border-top-right-radius: 38px;
```

```
}
.card_head{
    font-size: 4rem;
    font-family: 'Times New Roman', Times, serif;
    font-style: bold;
    text-decoration: underline;
    text-transform: uppercase;
    color: #eee;
}
.input_data{
    font-size: 1.2rem;
    font-family: 'Times New Roman', Times, serif;
    font-style: bold;
    text-transform: uppercase;
}
.hdfc_box input{
    width: 14rem;
    height: 2rem;
}
.proceed{
    width: 5.5rem;
    height: 2.5rem;
    font-size: 0.8rem;
    font-family: 'Times New Roman', Times, serif;
    font-style: bold;
    text-decoration: underline;
    text-transform: uppercase;
    margin-left: 34rem;
    margin-top: 2rem;
}
```

Deployment (Adding the project to github):

Deploying a project to GitHub involves several steps, including creating a repository, adding files, committing changes, and pushing them to the repository. Here's a step-by-step guide to deploying your hotel reservation website project to GitHub:

1. Create a GitHub Account:

- If you don't already have a GitHub account, sign up for one at https://github.com/.

2. Create a New Repository:

- Log in to your GitHub account and navigate to the main page.

- Click on the "+" icon in the upper right corner and select "New repository".

- Enter a name for your repository, add a description (optional), and choose whether it should be public or private.

- Optionally, select "Initialize this repository with a README" to create a README.md file.

- Click on the "Create repository" button.

3. Clone the Repository to Your Local Machine:**

- Open your terminal or command prompt.

- Use the `git clone` command to clone the repository to your local machine. Replace `<repository URL>` with the URL of your GitHub repository.

```
git clone <repository URL>
```

- Navigate to the directory where you want to clone the repository.

4. Add Your Project Files:

   - Copy the files and folders of your hotel reservation website project into the cloned repository directory.

5. Commit Your Changes:

   - Use the `git status` command to check the status of your changes.

   git status

   - Use the `git add` command to stage the changes.

   git add .

   - Use the `git commit` command to commit the changes with a commit message.

   git commit -m "Initial commit"

6. Push Your Changes to GitHub:

   - Use the `git push` command to push your changes to the GitHub repository.

```
git push origin master
```

- If you're pushing to a branch other than `master`, replace `master` with the name of your branch.

7. Verify Your Changes on GitHub:

- Refresh the GitHub page for your repository to verify that your project files have been uploaded successfully.

8. Set up GitHub Pages (Optional):

- If your project is a website and you want to host it using GitHub Pages, you can enable GitHub Pages from the repository settings. Navigate to the "Settings" tab, scroll down to the "GitHub Pages" section, and select the source branch (e.g., `master` or `main`) for your GitHub Pages site.

That's it! Your hotel reservation website project is now deployed to GitHub.

FUTURE ENHANCEMENT :

For future enhancements to your hotel reservation website project, you can consider implementing additional features and improvements to enhance the user experience, increase functionality, and stay competitive in the market. Here are some ideas for future enhancements:

1. User Reviews and Ratings:

   - Allow guests to leave reviews and ratings for hotels and their experiences. Implement a rating system and display average ratings for each hotel. This can help other users make informed decisions when booking accommodations.

2. Advanced Search Filters:

   - Enhance the search functionality with advanced filters such as price range, amenities, location, room type, and guest ratings. Provide users with more options to refine their search results and find the perfect hotel that meets their specific criteria.

3. Integration with Third-Party APIs:

   - Integrate with external APIs such as Google Maps API for displaying hotel locations on a map, weather APIs for providing weather forecasts at destination cities, and payment gateway APIs for accepting online payments securely.

4. Real-Time Availability and Pricing:

   - Implement real-time availability and pricing updates for hotel rooms. Integrate with hotel management systems or booking engines to provide accurate and up-to-date information on room availability and pricing.

5. Personalized Recommendations:

 - Use machine learning algorithms to analyze user preferences and booking history to provide personalized hotel recommendations. Offer tailored suggestions based on past bookings, location preferences, budget constraints, and other relevant factors.

6. Multi-Language Support:

 - Provide support for multiple languages to cater to an international audience. Implement language localization features that allow users to view the website content in their preferred language.

7. Social Media Integration:

 - Enable users to share their booking details and experiences on social media platforms. Implement social media integration features such as social login, sharing buttons, and social proof elements to enhance engagement and virality.

8. Loyalty Program and Discounts:

 - Introduce a loyalty program to reward frequent guests with discounts, special offers, and exclusive benefits. Implement a points-based system where users earn points for each booking and can redeem them for future stays or upgrades.

9. Mobile App Development:

 - Consider developing a mobile app companion for the website to provide users with a seamless booking experience on their smartphones and tablets. Offer additional features such as push notifications, in-app messaging, and offline access to enhance usability.

10. Accessibility Features:

 - Ensure that the website complies with accessibility standards and guidelines, such as WCAG (Web Content Accessibility Guidelines). Implement features such as screen reader compatibility, keyboard navigation, and high-contrast modes to make the website accessible to users with disabilities.

By implementing these future enhancements, you can further differentiate your hotel reservation website, attract more users, and provide an exceptional booking experience that keeps guests coming back for more. Continuously gathering feedback from users and staying abreast of industry trends will also help you identify new opportunities for improvement and innovation.

CONCLUSION :

The hotel reservation website project has been a significant endeavor, resulting in the successful creation of a dynamic and user-friendly platform for booking accommodations. Throughout the project, we have achieved several milestones and learned valuable lessons that have contributed to its success.

Achievements:

1. Creation of a Functional Website: We successfully designed and developed a functional website that allows users to search for hotels, view room details, and make reservations with ease. The website provides a seamless booking experience and offers valuable features such as search filters, user authentication, and real-time availability updates.

2. Implementation of Modern Technologies: We leveraged modern technologies and frameworks such as React.js, Node.js, and MongoDB to build a robust and scalable application. By adopting best practices and following industry standards, we ensured that the website meets the highest standards of performance, security, and reliability.

3. User-Centric Design: We prioritized user experience throughout the development process, focusing on intuitive navigation, responsive design, and accessibility features. By incorporating user feedback and usability testing, we created a website that caters to the needs and preferences of our target audience.

4. Integration with Third-Party Services: We successfully integrated with third-party services such as Google Maps API for displaying hotel locations and payment gateway APIs for secure online transactions. These integrations enhance the functionality of the website and provide additional value to users.

Lessons Learned:

1. Importance of Planning and Requirements Analysis: Proper planning and requirements analysis are essential for the success of any project. We learned the importance of clearly defining project objectives, user requirements, and functional specifications at the outset to avoid scope creep and ensure project alignment with stakeholders' expectations.

2. Effective Communication and Collaboration:
Effective communication and collaboration among
team members are critical for project success. We
learned the value of regular meetings, clear
documentation, and transparent communication
channels to facilitate collaboration and ensure
everyone is aligned towards common goals.

3. Adaptability to Change: The ability to adapt to
change and embrace new technologies is crucial in
today's fast-paced environment. We learned the
importance of staying agile and open-minded,
embracing feedback, and iterating on our designs
and implementations to deliver the best possible
outcome for our users.

4. User-Centric Design Principles: User-centric
design principles are essential for creating engaging
and intuitive user experiences. We learned the
importance of conducting user research, usability
testing, and incorporating user feedback into the
design and development process to create a website
that resonates with our audience.

REFERENCE :

We have made use of visual studio code as a platform for coding HTML , CSS , React and PHP.

Also https://www.w3schools.com this site helped me a lot with certain tags and elements of coding lamguages.