Resort Website

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Introduction

We have used HTML, CSS, Jquery, Firebase, Bootstrap, and the Google Cloud Platform for this project. We have also implemented various libraries that will be explained further in this presentation.

Overview of the technologies used:

HTML: HTML stands for Hyper Text Markup Language. This is the standard markup language for creating Web pages. The HTML code describes the structure of a Web page.

<tagname> Content goes here... </tagname>

CSS: CSS stands for Cascading Style Sheets. The specification describes how HTML elements should be displayed on screens, on paper, or in other media.

JavaScript: JavaScript was developed in order to provide a way for web pages to "become alive" or dynamic. Scripts are programs written in this language. They can be written directly in the HTML of a web page and run automatically when the page is loaded.

Overview

Jquery: jQuery is a fast, small, and feature-rich JavaScript library. It simplifies navigation and manipulation of HTML documents, event handling, animation, and Ajax using an API that works across a wide range of browsers.

```
A Brief Look
DOM Traversal and Manipulation
Get the <button> element with the class 'continue' and change its HTML to 'Next Step...'
 1 | $( "button.continue" ).html( "Next Step..." )
Event Handling
Show the #banner-message element that is hidden with display: none in its CSS when any button in #button-container is clicked.
 1 | var hiddenBox = $( "#banner-message" );
2 | $( "#button-container button" ).on( "click", function( event ) {
      hiddenBox.show();
Ajax
Call a local script on the server /api/getWeather with the query parameter zipcode=97201 and replace the element #weather-temp's html with the returned text.
  1 | $.ajax({
       url: "/api/getWeather",
       data: {
         zipcode: 97201
       success: function( result ) {
          $( "#weather-temp" ).html( "<strong>" + result + "</strong> degrees" );
```

Overview

Firebase: Firebase Realtime Database is a cloud-based database. The data is stored as JSON and is synchronized in real-time across all connected clients.



Overview

Bootstrap:

- Bootstrap is a front-end framework that makes web development faster and easier
- This framework includes HTML and CSS design templates for typography, forms, buttons, tables, navigation, modals, image carousels, and other features, as well as optional JavaScript plugins.
- Additionally, Bootstrap makes it easy to create responsive designs

Google Maps API: The Maps JavaScript API lets clients customize maps with their own content and imagery for display on web pages and mobile devices. There are four basic map types offered by the Maps JavaScript API (roadmap, satellite, hybrid, and terrain), which can be modified using layers, styles, controls, and events, as well as various services and libraries.

Netlify: For hosting the website we have used netlify. Netlify provides continuous deployment services and is free for hosting.

Technology resources and libraries used:

Font-awesome: https://cdnjs.com/libraries/font-awesome

Swiper: https://swiperjs.com/changelog

Bootstrap 4.4.1: https://getbootstrap.com/docs/4.4/getting-started/download/

Firebase Database: https://www.gstatic.com/firebasejs/9.15.0/firebase-database.js

EmailJS: https://cdn.jsdelivr.net/npm/@emailjs/browser@3/dist/email.min.js

Google map API: https://console.cloud.google.com/google/maps-apis/studio/styles?project=gapi-372101

Design

Link to documentation and starter tutorials:

HTML:

Starter tutorial: https://www.w3schools.com/html/

Documentation: https://developer.mozilla.org/en-US/docs/Web/HTML

CSS:

Starter tutorial: https://www.w3schools.com/css/

Documentation: https://developer.mozilla.org/en-US/docs/Web/CSS

JavaScript:

Starter tutorial: https://www.w3schools.com/js/

Documentation: https://devdocs.io/javascript/

Firebase:

Starter tutorial: https://www.tutorialspoint.com/firebase/index.htm

Documentation: https://firebase.google.com/docs/functions/get-started

Google Maps API:

Starter tutorial:

https://console.cloud.google.com/home/dashboard?project=gapi-372101&walkthrough_id=assistant_webhosting_inde

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Documentation:

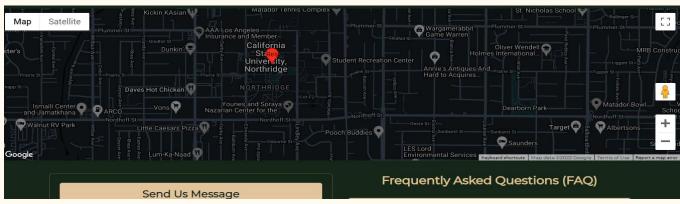
https://developers.google.com/maps/documentation/javascript/overview?hl=en GB#maps map simple-javascript

Demonstration



```
<div class="flex">
 <h3>luxurious rooms</h3>
 <a href="#availability" class="btn">check availability</a>
<div class="flex">
 <h3>foods and drinks</h3>
 <a href="#reservation" class="btn">make a reservation</a>
 <h3>luxurious halls</h3>
 <a href="#contact" class="btn">contact us</a>
                                                       Ln 93, Col 27 Spaces: 3 UTF-8 CRLF () HTML () Go Live &
```

Google Map(Using API)

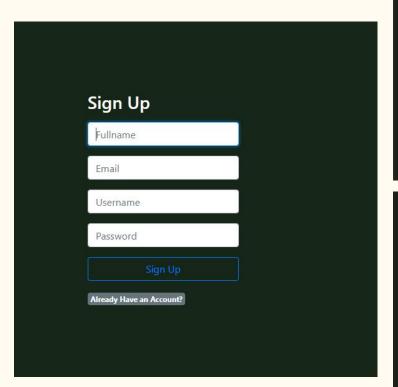


```
//Google map
let map;
const csun = { lat: 34.23833238 , lng: -118.523664572 };
const csunlib = { lat: 34.240029 , lng: -118.529499 }
function initMap() {
    map = new google.maps.Map(document.getElementById("map"), {
        center: csun,
        zoom: 15,
        mapId: "490687d5666a03fe",
      });

const marker = new google.maps.Marker({
    position: csunlib,
        label: "Res",
        map: map,
    });

window.initMap = initMap;
```

Sign-Up (Firebase and Authentication)



```
<!--Firebase Config-->
<script type="module">

// Import the functions you need from the SDKs you need
import { initializeApp } from "https://www.gstatic.com/firebasejs/9.15.0/firebase-app.js";
import { getAnalytics } from "https://www.gstatic.com/firebasejs/9.15.0/firebase-analytics.js";
import { getDatabase, ref, set, child, get } from "https://www.gstatic.com/firebasejs/9.15.0/firebase

const firebaseConfig = {

   apiKey: "AlzasyccyLpdOYBt6wOwmWbMPmVdpgnwEhsD7Gs",
   authDomain: "resort-a214c.firebaseapp.com",
   databaseURI: "https://resort-a214c-default-rtdb.firebaseio.com",
   projectId: "resort-a214c.appspot.com",
   messagingSenderId: "S7361144057",
   appId: "1:577361144057", web:9daa1fe6b639a5e10f5a28",
   measurementId: "G-2RZ69QFRRW"
};

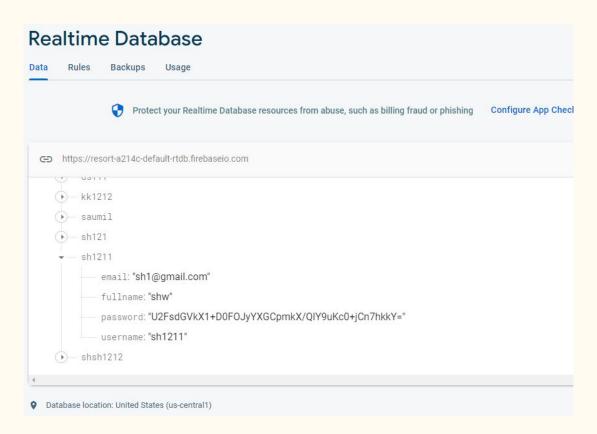
// Initialize Firebase
const app = initializeApp(firebaseConfig);
const analytics = getAnalytics(app);
const db = getDatabase();
```

```
//validation(Trough reg exp.)

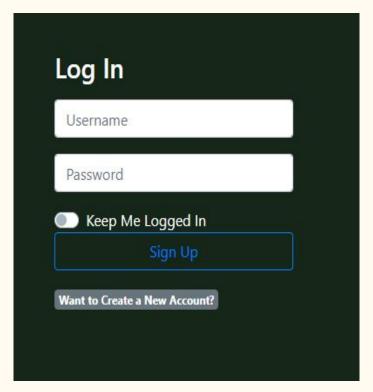
//To check the empty fields
function isEmptyOrSpaces(str){
    return str --- null || str.match(/^ *$/) !-- null;
}

function validation(){
    let nameregex = /^[a-zA-Z]-$\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\frac{1}{3}\fra
```

Firebase RealTime Database(With Password Encryption)



Log-In (Firebase and Authentication)



Contact (EmaiJs)



```
<section class="contact" id="contact">
   <div class="row">
      <form action="" method="POST">
         <h3>send us message</h3>
         <input type="text" id="name" name="name" required maxlength="50" placeholder="enter your name" class="text"</pre>
         kinput type="email" id="email" name="email" required maxlength="50" placeholder="enter your email" clas
         cinput type="number" id="phone" name="number" required maxlength="10" min="0" max="999999999" placehol
        <textarea name="msg" id="message" class="box" required maxlength="1000" placeholder="enter your message</pre>
         <button type="submit" class="btn" onclick="sendMail()">Send Message</button>
       //Email Send From Contact Field
       function sendMail(){
94
        var params = {
              name: document.getElementById("name").value,
              email: document.getElementById("email").value,
```

```
function sendMail(){

var params = {

name: document.getElementById("name").value,
email: document.getElementById("email").value,
message: document.getElementById("message").value,
};

const serviceID = "service_xgiyey8";
const templateID = "template_srzg2zq";

emailjs.send(serviceID, templateID, params).then(function (res){
    alert("Email Sent!");
}

alert("Email Sent!");
}
```

Conclusion

- Free hosting usually means that there is a limit on functionalities that can be added to a website.
- We learnt firebase database connectivity and usage of real time data.
- We learnt formatting and designing a website application.
- We learn API connectivity and using and implementing its functionalities.
- We tried and implemented automated email functionality for contact details.

Alternative libraries/ framework

SMTPJS - For Sending email

PHP - For backend

Radar - Map API

MySql - For Database

Pros and Cons of libraries used

Library	Pros	Cons
FireBase	Uses Realtime Database	Can't Use for Admin Page
Google API	Edit Map in any Way	Generate New API key after some time
EmailJS	Send Automated Email	Vulnerable (Use Own Account)
Bootstrap	Fewer Cross browser bugs	JavaScript is tied to jQuery

References

- [1] https://www.w3schools.com/html/
- [2] https://firebase.google.com/docs/functions/get-started
- [3]
- https://developers.google.com/maps/documentation/javascript/overview?hl=en G B#maps map simple-javascript
- [4] https://www.emailjs.com/docs/
- [5] https://getbootstrap.com/docs/4.4/getting-started/introduction/

Links For Website and Github

Website - https://resorts2r.netlify.app/index.html

Github - https://github.com/shrey-patel14/resorts2r.git