

VITravel

**PROJECT REPORT**

*Submitted in fulfilment for the J-Component of CSE3002 – Internet and Web Programming*

**CAL COURSE**

*in*

**B.Tech. (Computer Science)**

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**SCOPE**



**VIT<sup>®</sup>**

**Vellore Institute of Technology**

(Deemed to be University under section 3 of UGC Act, 1956)

**SCHOOL OF COMPUTER SCIENCE AND ENGINEERING**

Fall Semester 2022-2023

## TABLE OF CONTENTS

CHAPTER NO.	TITLE	PAGE NO.
<b>1.</b>	Abstract	<b>3</b>
<b>2.</b>	Introduction	<b>4</b>
<b>3.</b>	Problem Statement	<b>4</b>
<b>4.</b>	Modules	<b>4</b>
<b>5.</b>	ER Diagram	<b>6</b>
<b>6.</b>	References	<b>7</b>
<b>7.</b>	Snapshots	<b>8</b>
<b>8.</b>	Sample Source Code	<b>10</b>
<b>9.</b>	Conclusion	<b>15</b>

# VITravel

## **Abstract**

In today's world, web applications are very important. Most of the people use web applications to browse through any of their favourite topics or in any situation where they need information about some topic. One of the applications related to this issue is our topic VITravel which is like a Travel Guide that helps you to plan your destinations, view any locations and help you with directions.

VITravel (Travel to - around - in VIT) is a Travel Guide designed to show the maximum amount of information relevant to travellers in the most legible manner on the GPS. Buildings, gyms, pools, libraries, and many important landmarks are included, as are Medical Facilities with their individual icons. A pop up with detailed description will be displayed when their respective icon is clicked on.

Clients can post or check reviews, subscribe to the services and etc., there are many scopes of storing data by collecting through different means. Our team is trying to add as many features as possible to help the Navigation and make it easier and more accessible to use in any case.

## **Reason for choosing this topic?**

We need to have many of our VITians or Non-VITians be properly go through a really vast campus like VIT. We have many spots xerox shops, Gyms, Pools, Grounds, Shops etc. these can be exclusively found in our VITravel, with some experiences through reviews or information about that place can be provided. This can be really helpful to many people in any crisis.

## **Introduction**

We are introducing this VITravel to give an accurate and up to date info that is offered by the VITians staying at VIT. This is like a group of collective experiences that will lead the new users or students to have a smooth life with a headstart so this will primarily focus on what our existing maps cannot do that is accurate info with anonymity and also real time updates to make the life easier and also more productive and further on we can see the updates and what we will get in it

## **Problem statement**

We need to find a location in VIT? or when you want to reach a particular place? and get to know about it a little in advance? or find ways to reach here? Learn about different modes of transport? Find any pools, library, gyms etc.?

## **Modules**

We mostly used html forms and took inputs from the forms to use in the database and further on for design and some other cool stuff we used the javascript to not only use for the main content which is api pull maps from google maps we also gave a streetview, satellite view and many other features this map is strictly for navigating and the location coordinates are given specially input to be accurate and some details and short story about the place is also written here we mostly used the database values with the phpMyAdmin using xampp.

Web  
Designing

Client-Side  
Processing  
and Scripting

Server-side  
processing  
using Servlets

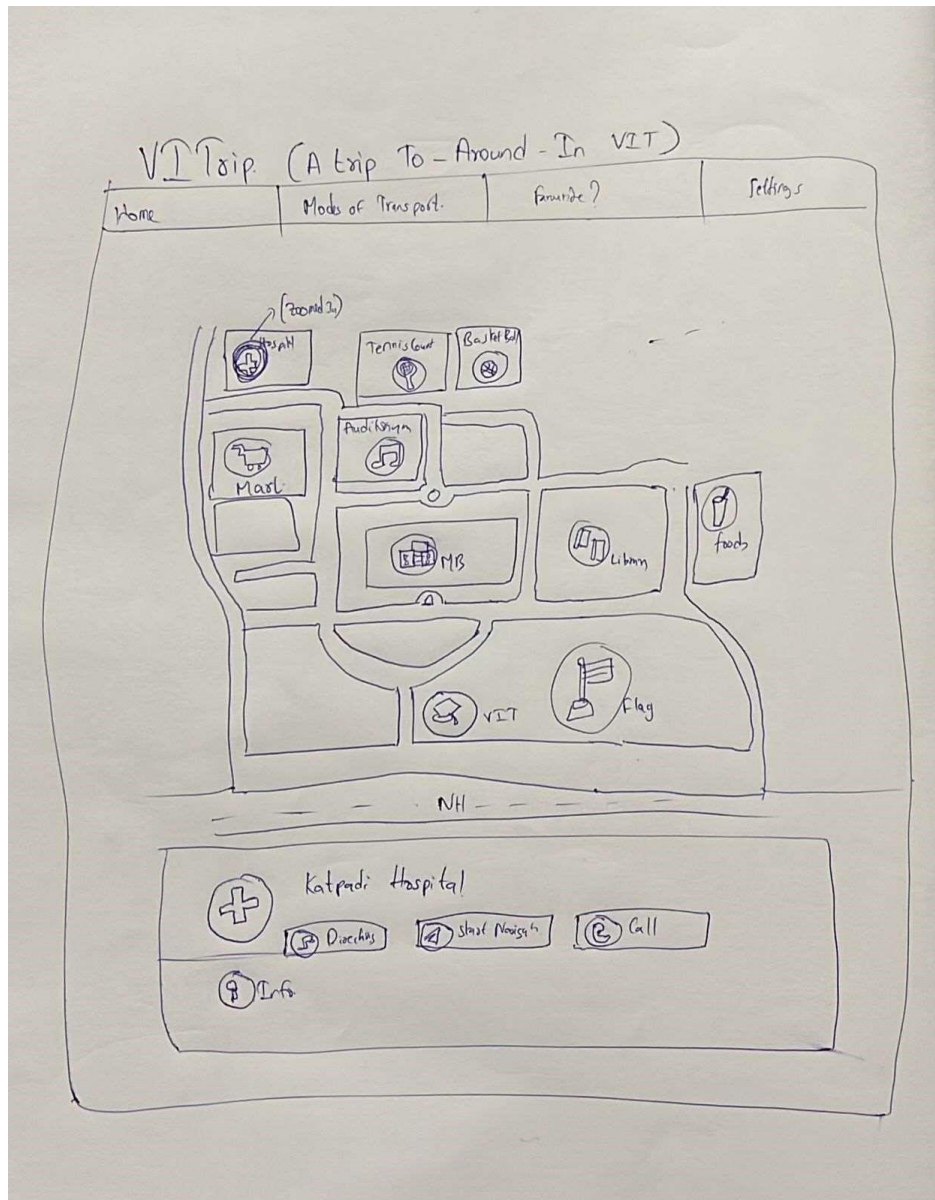
Server-side  
processing  
using Jsp

PHP and XML  
(directives and  
scripting, etc.)

Recent Trends  
in Internet or  
Survey process

Nodejs with  
npm and  
Reactjs

## Prototype Design – One Page



## **Github Repo Link**

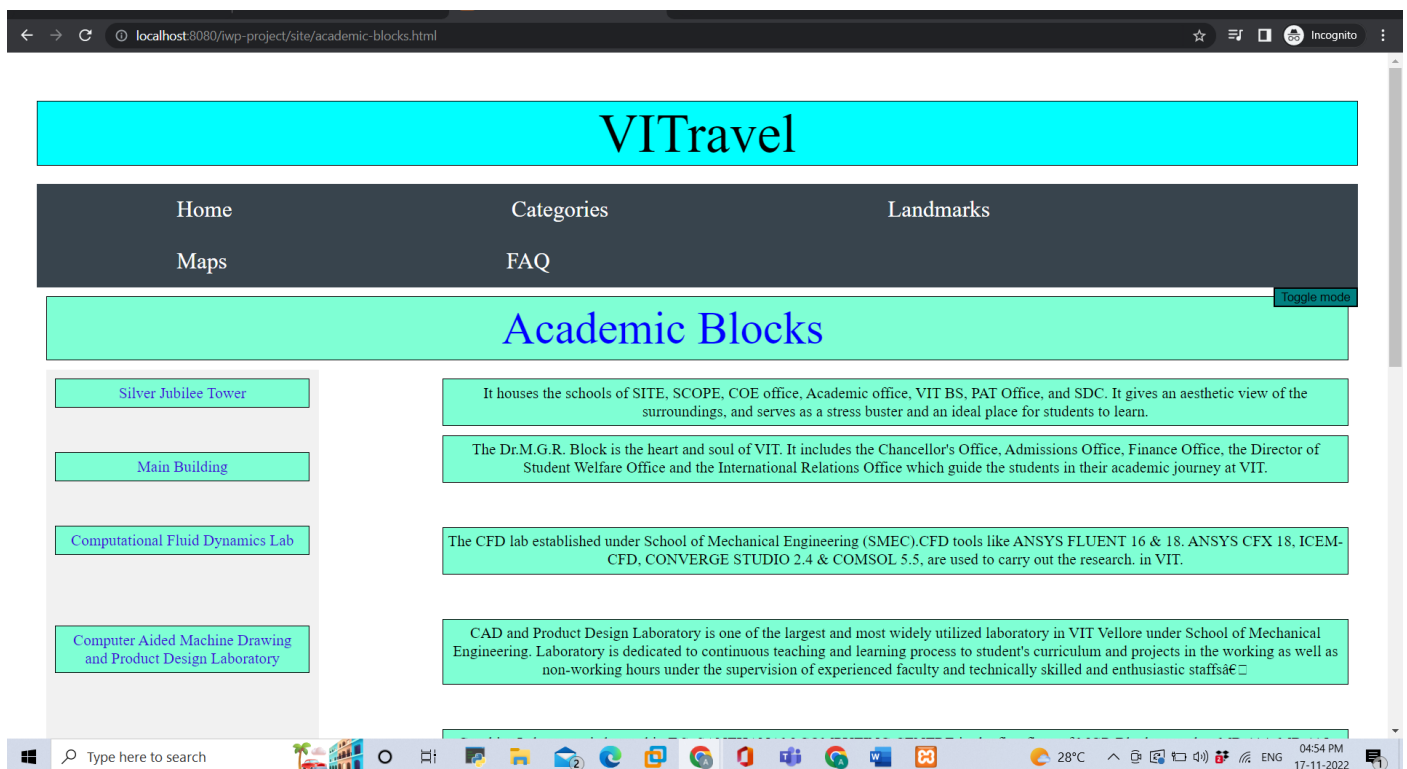
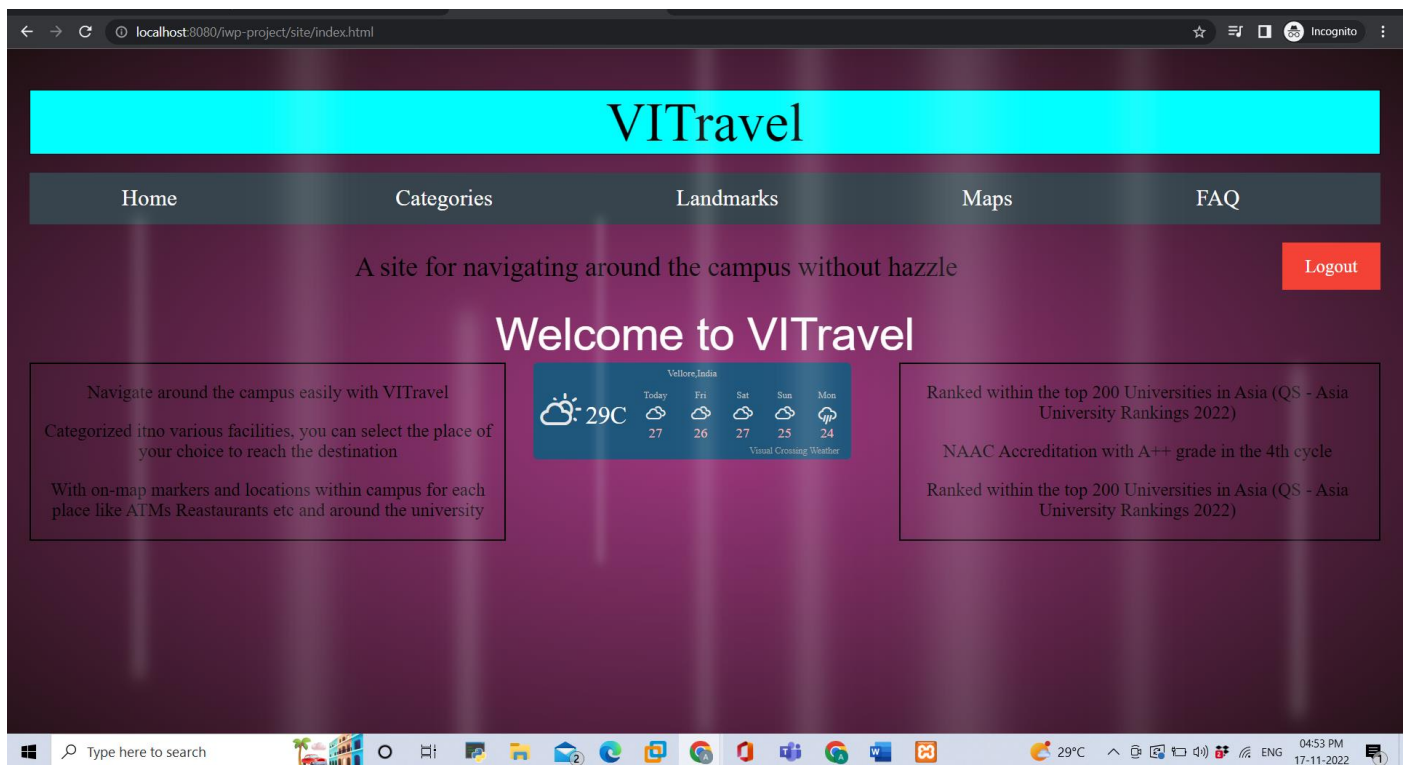
[https://github.com/JayakumarClassroom/FS22-23\\_IWP\\_B1-20BCI0258/tree/main/Project/Review%20-%20202](https://github.com/JayakumarClassroom/FS22-23_IWP_B1-20BCI0258/tree/main/Project/Review%20-%20202)

We shown the frontend design of our project in the following sites,

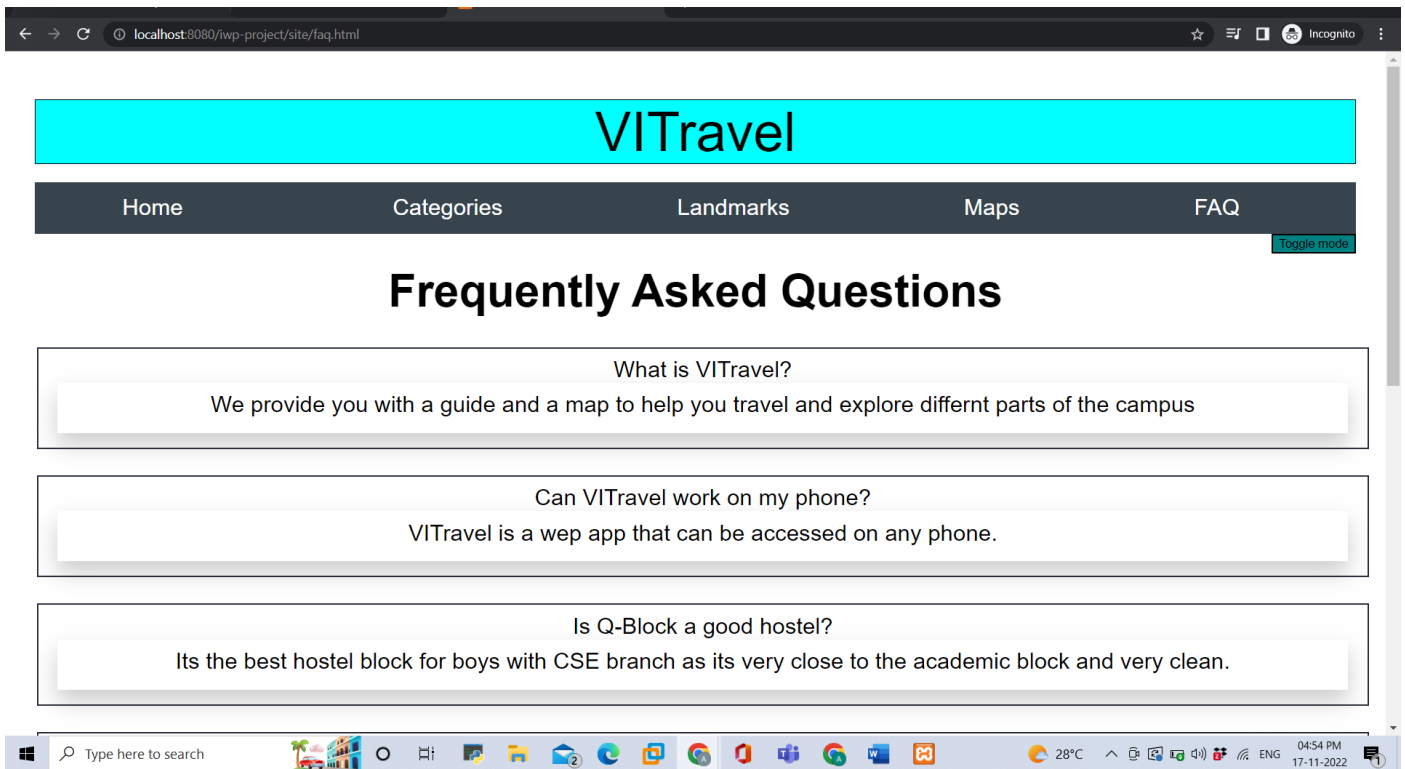
As we run the codes we shown the output screenshots in next page of various html pages.

However its not a single page but multiple pages connected so we shown some screenshots in the next and so the next slides will show the screenshots of our fontend

## Snapshots:







## Source Code

index.html

```
<html>
  <head>
    <title>Site</title>
    <link rel="stylesheet" href="style.css">
    <link rel="javascript" href="backend.js">
  </head>
  <body>
    <div class="site-title">VITTravel</div>
    <div class="info-page">
      <ul>
        <li><a href="index.html">Home</a></li>
        <li class="dropdown-Categories"><a href="search.html"></a>
          <a href="javascript:void(0)" class="dropbtn-Categories">Categories</a>
          <div class="dropdown-content-Categories">
            <a href="academic-blocks.html">Academic Blocks</a>
            <a href="administrative-offices.html">Administrative Offices</a>
            <a href="#">Shops</a>
            <a href="#">Coffee Shops</a>
            <a href="HostelBlocks.html">Hostel Blocks</a>
            <a href="#">Restaurants</a>
            <a href="atm.html">ATMs</a>
            <a href="#">Pickup Points</a>
            <a href="#">Utilities</a>
            <a href="#">Sports</a>
            <a href="#">Gates</a>
            <a href="#">Halls</a>
          </div>
        </li>
        <li class="dropdown">
          <a href="javascript:void(0)" class="dropbtn">Landmarks</a>
          <div class="dropdown-content">
            <a href="#">Swimming Pool - MH</a>
            <a href="#">Sports Complex - MH</a>
            <a href="#">Dominos</a>
            <a href="#">DC Bakery</a>
            <a href="#">Private Copier Shop</a>
          </div>
        </li>
        <li><a href="mainmap.html">Maps</a></li>
        <li><a href="faq.html">FAQ</a></li>
      </ul>
      <p>Welcome to VITTravel</p>
```

```

    <p>A site for navigating around the campus without hazzle</p>
    <br><br>
    <div style="float: left;width:40%; border:2px solid black;">
        <p style=" font-size:20px">Navigate around the campus easily with VITravel</p>
        <p style=" font-size:20px">Categorized itno various facilities, you can select the
place of your choice to reach the destination</p>
        <p style=" font-size:20px">With on-map markers and locations within campus for
each place like ATMs Reastaurants etc and around the university</p>
    </div>
    <div style="float: right;width:40%; border:2px solid black; padding-right:5px">
        <p style=" font-size:20px">Ranked within the top 200 Universities in Asia (QS -
Asia University Rankings 2022)</p>
        <p style=" font-size:20px">NAAC Accreditation with A++ grade in the 4th
cycle</p>

        <p style=" font-size:20px">Ranked within the top 200 Universities in Asia (QS -
Asia University Rankings 2022)

    </div>
</div>
</body>
</html>

```

One of the main important file is map.js which can show the street view and many different views this is one of the main code:

```

let map;
const center = { lat: 12.9692, lng: 79.1559 };
const styles = [
  { elementType: "geometry", stylers: [{ color: "#efe6be" }] },
  { elementType: "labels.icon", stylers: [{ visibility: "off" }] },
  {
    elementType: "labels.text.fill",
    stylers: [{ color: "#f5f5f5" }, { weight: 1.5 }],
  },
  {
    elementType: "labels.text.stroke",
    stylers: [{ color: "#9e9e9e" }, { weight: 1.5 }],
  },
  {

```

```
featureType: "administrative.land_parcel",
stylers: [{ visibility: "off" }],
},
{
featureType: "administrative.land_parcel",
elementType: "labels.text.fill",
stylers: [{ color: "#bdbdbd" }],
},
{
featureType: "administrative.neighborhood",
stylers: [{ visibility: "off" }],
},
{
featureType: "poi",
elementType: "geometry",
stylers: [{ color: "#c44135" }],
},
{
featureType: "poi.park",
elementType: "geometry",
stylers: [{ color: "#328829" }],
},
{
featureType: "poi.sports_complex",
elementType: "geometry",
stylers: [{ color: "#2ca37b" }],
},
{
featureType: "road",
elementType: "geometry",
stylers: [{ color: "#e4b083" }],
},
{
featureType: "road",
elementType: "labels",
stylers: [{ visibility: "off" }],
},
{
featureType: "water",
elementType: "geometry",
stylers: [{ color: "#32cbb1" }],
},
{
featureType: "water",
elementType: "labels.text",
stylers: [{ visibility: "off" }],
},
}
```

```

{
  featureType: "water",
  elementType: "labels.text.fill",
  stylers: [{ color: "#9e9e9e" }],
},
];

function initMap() {
  const localContextMapView = new google.maps.localContext.LocalContextMapView({
    element: document.getElementById("map"),
    placeTypePreferences: [
      { type: "bakery", weight: 1 },
      { type: "park", weight: 2 },
      { type: "restaurant", weight: 3 },
      { type: "shopping_mall", weight: 1 },
      { type: "tourist_attraction", weight: 3 },
    ],
    maxPlaceCount: 18,
    directionsOptions: { origin: center },
  });

  map = localContextMapView.map;
  // Trigger hidePlaceDetailsView() with a click event handler on the inner map.
  map.addListener("click", () => {
    localContextMapView.hidePlaceDetailsView();
  });

  // Merge map styles.
  const mergedStyles = map.get("styles").concat(styles);

  map.setOptions({
    center: center,
    zoom: 14,
    styles: mergedStyles,
  });
  // Add a marker at the center point
  new google.maps.Marker({
    position: center,
    map: map,
    icon:
"data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAABgAAAAAYCAYAAADgdz
34AAAAAdUIEQVR4AWMYOWAU/AfhYWMBCxA3A/FlIN4MxN7I6gJg80DcD8QC+CzI
xqIxH6aOSHwfYQmmBZexuQymjgTcj8uCz1gUHybDgvO4LFiMRXE4GRb8x2UBDxCX
Q8PxPdSrLNSxAD+g3ALCeNQCKoHhZcHAg1EAAM3cyWj3TGxhAAAAAEIFTkSuQm
CC",
    zIndex: 30,
  });

```

```
}
```

```
// Standard google maps function
```

```
function initialize() {
```

```
  var myLatLng = new google.maps.LatLng(40.779502, -73.967857);
```

```
  var myOptions = {
```

```
    zoom: 12,
```

```
    center: myLatLng,
```

```
    mapTypeId: google.maps.MapTypeId.ROADMAP
```

```
  }
```

```
  map = new google.maps.Map(document.getElementById("map_canvas"), myOptions);
```

```
  TestMarker();
```

```
}
```

```
// Function for adding a marker to the page.
```

```
function addMarker(location) {
```

```
  marker = new google.maps.Marker({
```

```
    position: location,
```

```
    map: map
```

```
  });
```

```
}
```

```
// Testing the addMarker function
```

```
function TestMarker() {
```

```
  CentralPark = new google.maps.LatLng(37.7699298, -122.4469157);
```

```
  addMarker(CentralPark);
```

```
}
```

```
window.initMap = initMap;
```

```
// [START maps_add_map]
```

```
// Initialize and add the map
```

```
function initMap() {
```

```
  // [START maps_add_map_instantiate_map]
```

```
  // The location of Uluru
```

```
  const uluru = { lat: 12.9692, lng: 79.1559 };
```

```
  // The map, centered at Uluru
```

```
  const map = new google.maps.Map(document.getElementById("map"), {
```

```
    zoom: 14,
```

```
    center: uluru,
```

```
  });
```

```
  // [END maps_add_map_instantiate_map]
```

```
// [START maps_add_map_instantiate_marker]
// The marker, positioned at Uluru
const marker = new google.maps.Marker({
  position: uluru,
  map: map,
});
// [END maps_add_map_instantiate_marker]
}

window.initMap = initMap;
// [END maps_add_map]
```

## CONCLUSION

In any case VITravel will make the lives of VIT students much easier.

VITravel and other types of maps today contains a story of geographic information science and cognate technologies, like GPS, big data, virtual reality, or machine learning. Mapping will remain an important part of this larger evolving mix of society and technology.