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®

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

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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 needs 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

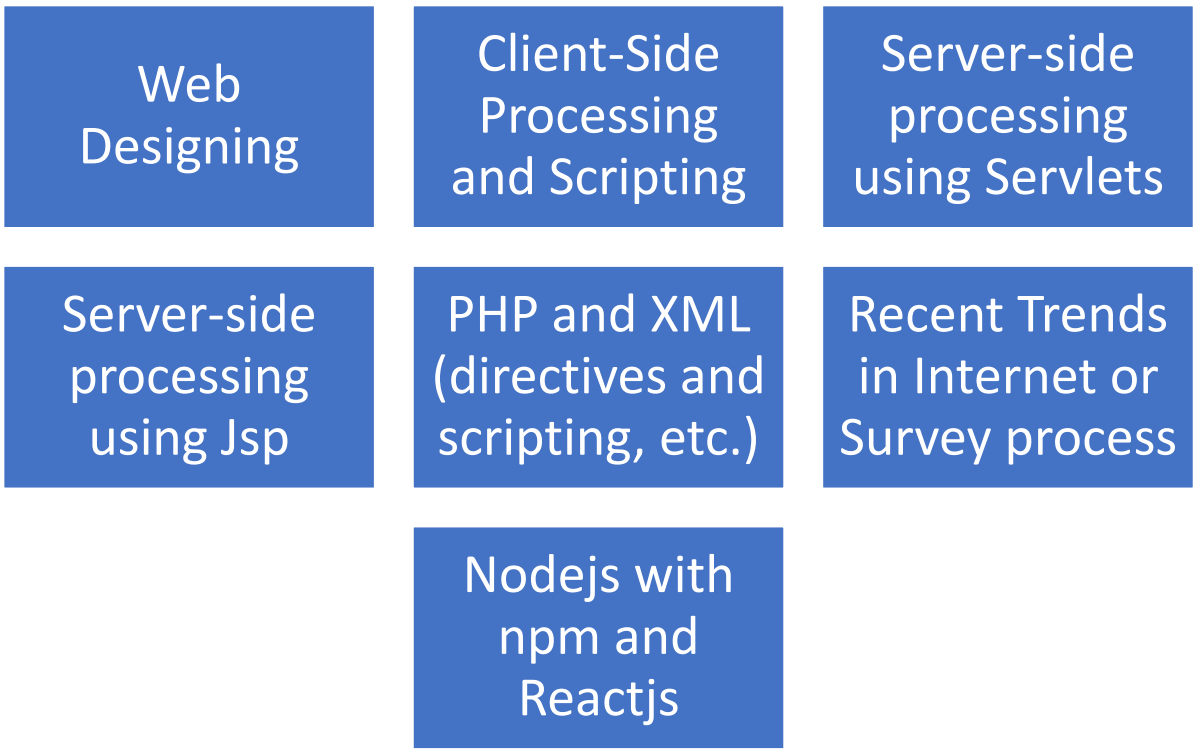
We are introducing this VITravel to give an accurate and up to date info that is offered by the VITians staying at VIT. This is like a group of collective experiences that will lead the new users or students to have a smooth life with a headstart so this will primarily focus on what our existing maps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

Problem statement

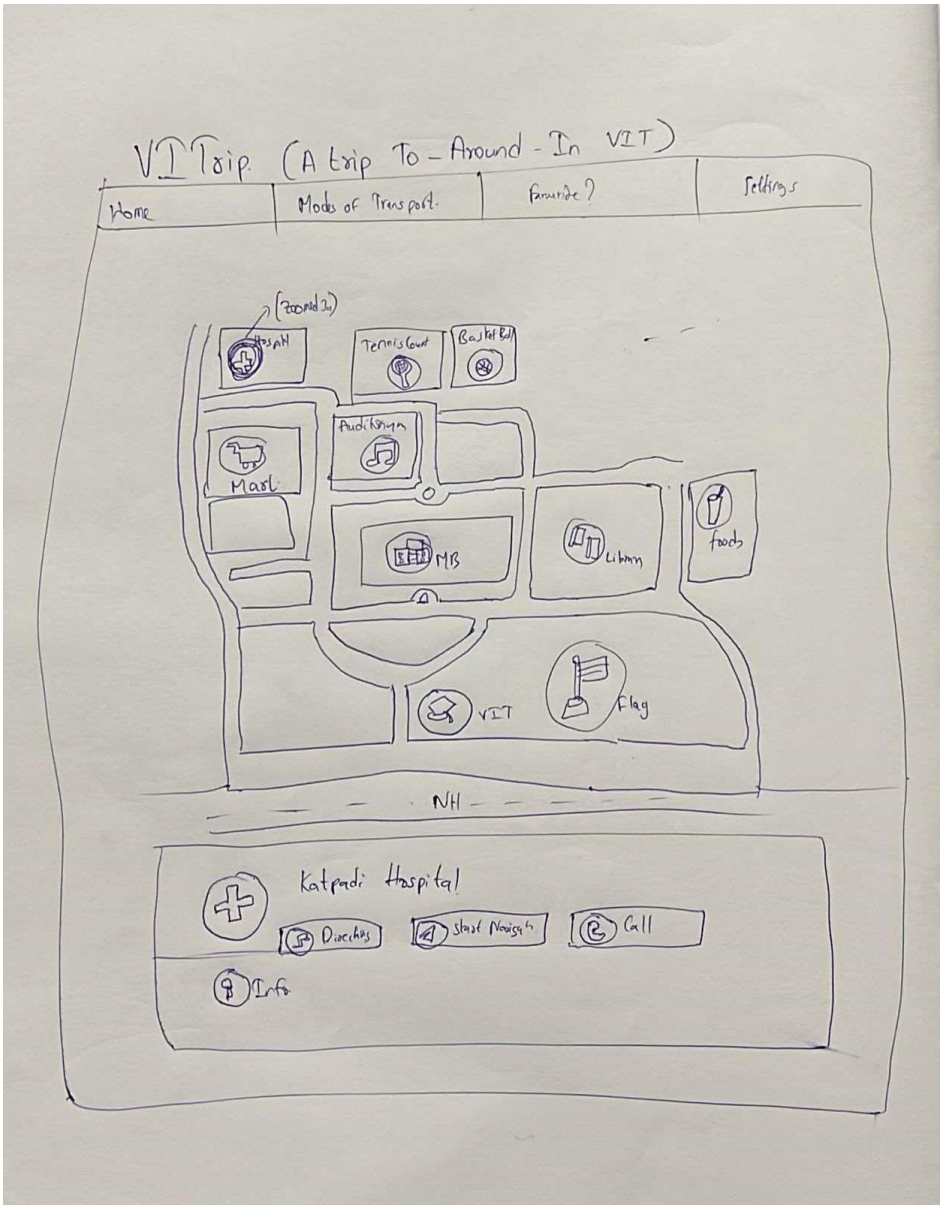
We need to find a location in VIT? or when you want to reach a particular place? and get to know about it a little in advance? or find ways to reach here? Learn about different modes of transport? Find any pools, library, gyms etc.?

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 ther 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-%202

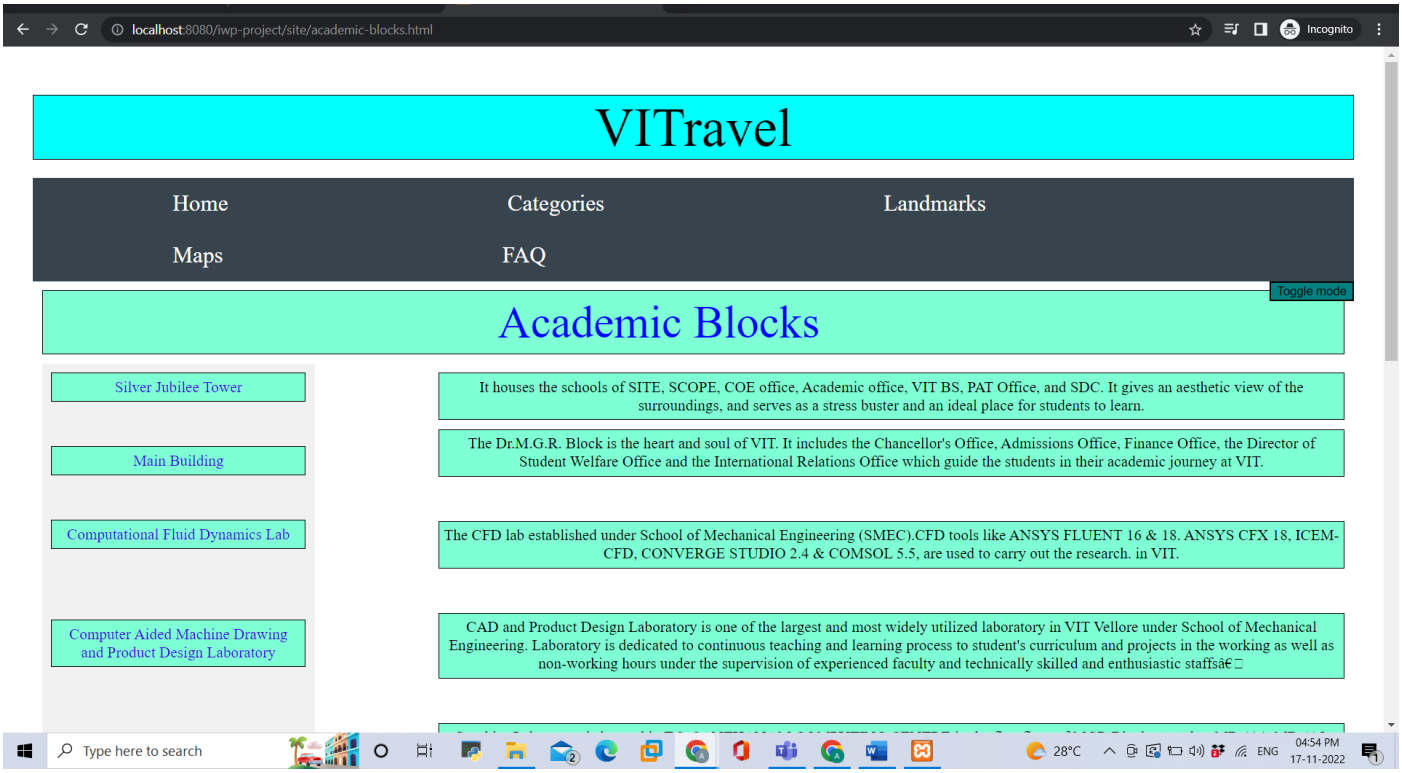
We shown the frontend design of our project in the following sites,

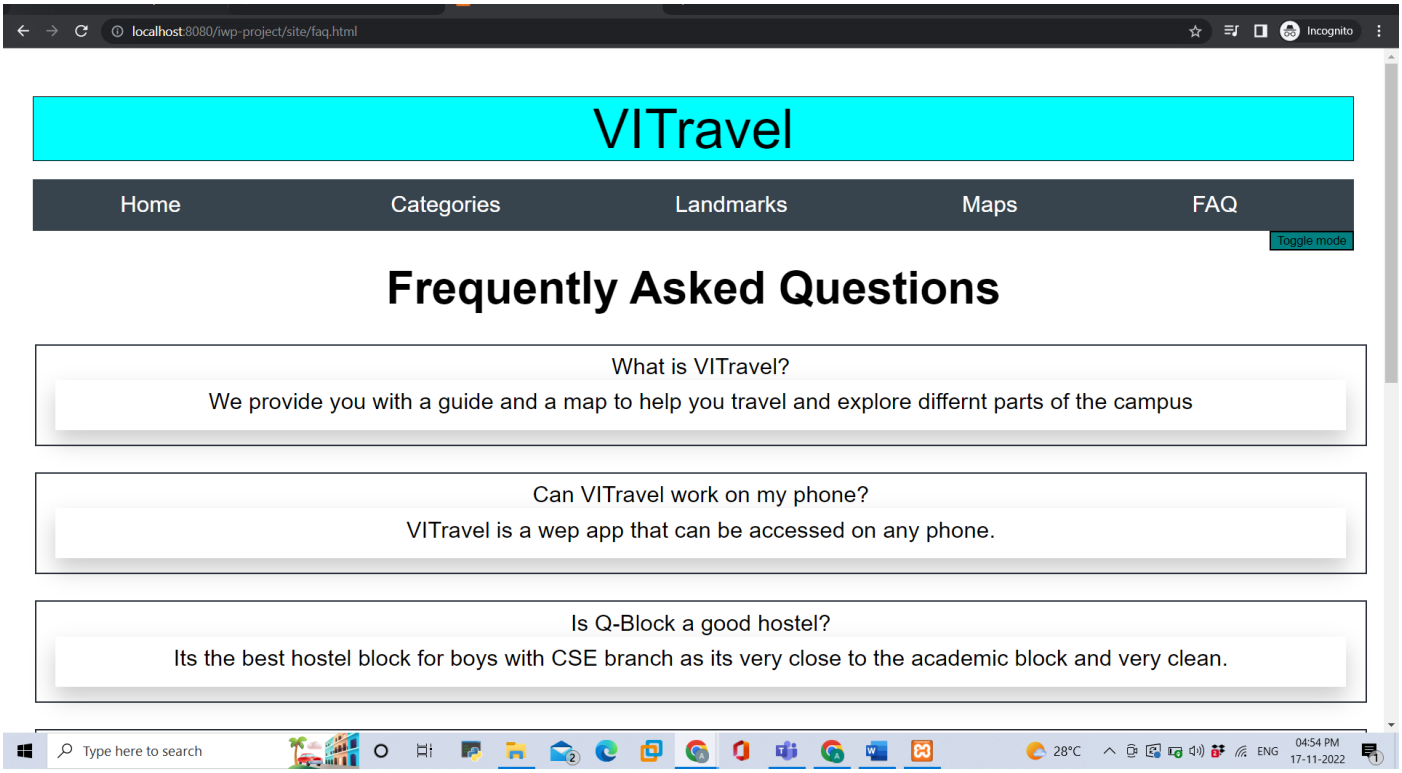
As we run the codes we shown the output screenshots in next page of various html pages.

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:

localhost:8080/iwp-project/site/index.html
Incognito
VITravel
Home
Categories
Landmarks
Maps
FAQ
A site for navigating around the campus without hazzle
Logout
Welcome to VITravel
Navigate around the campus easily with VITravel
Categorized itno various facilities, you can select the place of your choice to reach the destination
With on-map markers and locations within campus for each place like ATMs Reastaurants etc and around the university
Vellore,India
29C
Today Fri Sat Sun Mon
27 26 27 25 24
Visual Crossing Weather
Ranked within the top 200 Universities in Asia (QS - Asia University Rankings 2022)
NAAC Accreditation with A++ grade in the 4th cycle
Ranked within the top 200 Universities in Asia (QS - Asia University Rankings 2022)
Type here to search
29°C
ENG
04:53 PM
17-11-2022


localhost:8080/iwp-project/site/academic-blocks.html
Incognito
VITravel
Home
Categories
Landmarks
Maps
FAQ
Toggle mode
Academic Blocks
Silver Jubilee Tower
It houses the schools of SITE, SCOPE, COE office, Academic office, VIT BS, PAT Office, and SDC. It gives an aesthetic view of the surroundings, and serves as a stress buster and an ideal place for students to learn.
Main Building
The Dr.M.G.R. Block is the heart and soul of VIT. It includes the Chancellor's Office, Admissions Office, Finance Office, the Director of Student Welfare Office and the International Relations Office which guide the students in their academic journey at VIT.
Computational Fluid Dynamics Lab
The CFD lab established under School of Mechanical Engineering (SMEC).CFD tools like ANSYS FLUENT 16 & 18. ANSYS CFX 18, ICEM-CFD, CONVERGE STUDIO 2.4 & COMSOL 5.5, are used to carry out the research. in VIT.
Computer Aided Machine Drawing and Product Design Laboratory
CAD and Product Design Laboratory is one of the largest and most widely utilized laboratory in VIT Vellore under School of Mechanical Engineering. Laboratory is dedicated to continuous teaching and learning process to student's curriculum and projects in the working as well as non-working hours under the supervision of experienced faculty and technically skilled and enthusiastic staffsâ€□
Type here to search
28°C
ENG
04:54 PM
17-11-2022


localhost:8080/iwp-project/site/faq.html
Incognito
VITravel
Home
Categories
Landmarks
Maps
FAQ
Toggle mode
Frequently Asked Questions
What is VITravel?
We provide you with a guide and a map to help you travel and explore differnt parts of the campus
Can VITravel work on my phone?
VITravel is a wep app that can be accessed on any phone.
Is Q-Block a good hostel?
Its the best hostel block for boys with CSE branch as its very close to the academic block and very clean.
Type here to search
28°C
ENG
04:54 PM
17-11-2022

localhost:8080/iwp-project/site/silver-jubilee-tower.html
Incognito
VITravel
Home
Categories
Landmarks
Maps
FAQ
Silver Jubilee Tower
Silver Jublee Tower a.k.a SJT is one of the academic blocks of VIT. It was inaugurated when VIT completed 25 years hence it is named silver jubilee.It was inaugurated by honorable Shri G.K Vasan, Minister for Shipping, Govt. of India on 29th September, 2009 in the presence of honorable Shri Pranab Mukherjee, former Finance Minister and the Ex-President of our country. Apart from enormous and spacious classrooms, brilliantly designed smart classrooms and galleries add to the list of unique features of SJT.
Note : Click 'Directions' for Navigation.
SJT
VIT University, Vellore, Tamil Nadu 632014, India
Directions
View larger map
R Block
Chillout Plaza
New Block VIT Business School
M Block Badminton Court
Nescafe Outlet
RS HOTEL
Fast Food
VIT Mens Hostel
Indoor Sports Complex
J Block
Lee Rd
Mahatma Gandhi Block, VIT University
DC canteen MGB
Namma Chai
Shristi school
Type here to search
28°C
ENG
04:59 PM
17-11-2022

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">VITravel</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 VITravel</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:
"
34AAAAdUlEQVR4AWMYOWAU/AfhYWMBCxA3A/FlIN4MxN7I6gjg80DcD8QC+CzI
xqIxH6aOSHwfYQmmBZexuQymjgTcj8uCz1gUHybDgvO4LFiMRXE4GRb8x2UBDxCX
Q8PxPdSrLNSxAD+g3ALCeNQCKoHhZcHAg1EAAM3cyWj3TGxhAAAAAElFTkSuQm
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.