## Project Report

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Part 1 :Location Tracker with Google Maps API

Part 2 : Emergency Information Web Page

All the required code is available no my GitHub Page

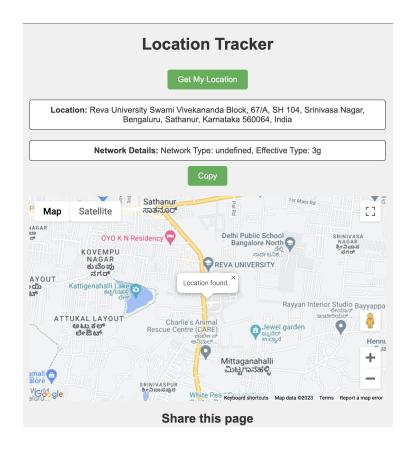
My Github Repo

### Part 1

# Location Tracker with Google Maps API

## Introduction //.

The "Location Tracker with Google Maps" project aims to create a simple web application that utilizes the Google Maps JavaScript API to display the user's current location along with its corresponding address. The project provides a button to fetch the user's location and retrieve the address through reverse geocoding.



## 1. Project Components

a. HTML File (`index.html`)

```
html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width,</pre>
initial-scale=1.0">
   <title>Location Tracker</title>
   <style>
       body {
           font-family: Arial, sans-serif;
           text-align: center;
           margin: 50px;
       }
   </style>
</head>
<body>
   <h1>Location Tracker</h1>
   <button onclick="getLocation()">Get My Location
   <script>
       // JavaScript code for location tracking
       // (Include the complete JavaScript code here)
   </script>
</body>
</html>
```

## b. JavaScript Module (`index.js`)

```
javascript
// JavaScript code for location tracking
// (Include the complete JavaScript code here)
```

## 2. Google Maps API Integration

The project utilizes the Google Maps JavaScript API to display the map and perform reverse geocoding to retrieve the address based on latitude and longitude.

a. Google Maps API Key[/must and should required/]

Ensure a valid Google Maps API key is obtained and used in the API request for proper authentication.

b. Geolocation and Reverse Geocoding

The `navigator.geolocation` API is used to fetch the user's current location. The obtained coordinates are then used to make a request to the Google Maps Geocoding API to retrieve the address information.

## 3. Execution

When the "Get My Location" button is clicked, the JavaScript code triggers the geolocation API to fetch the user's coordinates. These coordinates are then used to perform reverse geocoding and obtain the corresponding address, which is displayed on the webpage.

## 4. Troubleshooting

If issues arise, the browser's developer console should be checked for any error messages. Common troubleshooting steps include verifying the API key, ensuring proper API key permissions, and checking for any errors in the JavaScript code.

## 5. Future Enhancements

Possible future enhancements to the project include:

- Improved styling and user interface.
- Integration with additional mapping services.
- Geolocation tracking with real-time updates.
- User authentication for personalized experiences.

### Conclusion

Reading Tip: The "Location Tracker with Google Maps API project provides a basic yet functional demonstration of geolocation and reverse geocoding using the Google Maps JavaScript API. It serves as a foundation for building more sophisticated location-based applications.

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Above is First part GOOGLE Maps API and it's Implementation

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Certainly! Below is a template for a simple project report for the emergency information web page with Web Share API integration. You can customize it further based on your project details.

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# **Emergency Information Web Page**

## Project Overview

The Emergency Information Web Page is designed to provide essential information during emergencies, including contact details, evacuation routes, weather alerts, and access to national emergency and safety manuals. The web page is equipped with the Web Share API, allowing users to easily share important information.

Features

## **Weather Alerts**

Temperature: 23.47 °C | 74.25 °F

Weather: haze

Category: Bad 🧁

Wind Direction: E

Wind Speed: 18.50 km/h | 11.50 mph

**Condition: Haze** 

Feels Like: 23.57 °C | 292.95 °F

## **Emergency Information**

## **Emergency Contacts**

Local Police: 100

Fire Department: 101

Ambulance: 102

National Emergency

Helpline:112

## **National Emergency and Safety Manuals**

Access national emergency and safety manuals to ensure preparedness and safety. Download the following documents:

National Emergency Guide Safety Manual

Stay safe and follow local authorities' guidance during emergencies.

## Emergency Information - Checklist Emergency Kit Checklist

Prepare an emergency kit with essentials like water, food, first aid supplies, flashlight, and more.

✓ Water

✓ Non-perishable food

✓ First aid supplies
✓ Flashlight

## **Medical Emergency - First Aid**

The company has provided "First –AID" boxes at security office. Following are the contents of First aid.

✓ Tincture iodine
✓ Eye wash solution

✓ Burnol
✓ Soframycin (ointment)

✓ Sterilized cotton wool
✓ Band-aid

✓ Antiseptic Solution (Dettol)
✓ Bandage

✓ Paracetamol tablets
✓ lodex

✓ Pair of scissors

Stay safe and follow local authorities' guidance during emergencies.

## **Government Websites and Apps**

Check government websites or use official apps for up-to-date information.

Government Website	Link
National Disaster Management Authority (NDMA)	https://ndma.gov.in/
Ministry of Home Affairs	https://www.mha.gov.in/
India Meteorological Department (IMD)	https://mausam.imd.gov.in/
National Emergency Response Centre (NERC)	https://nercndma.gov.in/
National Crisis Management Committee (NCMC)	https://ncmc.nic.in/
National Disaster Response Force (NDRF)	https://www.ndrf.gov.in/
Indian Red Cross Society	https://indianredcross.org/

Stay safe and follow local authorities' guidance during emergencies.

## 1. Emergency Contacts:

- Local Police: 100

- Fire Department: 101

- Ambulance: 102

- National Emergency Helpline: 112

## 2. Evacuation Routes:

- Know the designated evacuation routes in your area.

## 3. National Emergency and Safety Manuals:

- Access national emergency and safety manuals for preparedness and safety.
  - Download the following documents:
    - [National Emergency

Guide](path/to/national-emergency-guide.pdf)

- [Safety Manual](path/to/safety-manual.pdf)

## 4. Weather Alerts:

- Subscribe to weather alert services and have a weather radio.
- Get location-specific weather alerts using the OpenWeatherMap API.

## 5. Share Functionality:

- The web page is integrated with the Web Share API.
- Users can easily share emergency information with others.

## **Implementation Details**

## ⇒ Emergency Contacts

## **⇒** Evacuation Routes

## ⇒ National Emergency and Safety Manuals

## ⇒ Weather Alerts

## **⇒** Web Share API Integration

```
html
<script>
    if (navigator.share) {
        const shareButton = document.getElementById('shareButton');
        shareButton.addEventListener('click', () => {
            navigator.share({
                title: 'Emergency Information',
                text: 'Stay informed with this emergency information web
page.',
                url: window.location.href
            })
            .then(() => console.log('Shared successfully'))
            .catch((error) => console.error('Error sharing:', error));
        });
    } else {
        console.log('Web Share API is not supported in this browser.');
    }
</script>
```

## Conclusion

The Emergency Information Web Page provides a user-friendly platform for accessing critical information during emergencies. The integration of the Web Share API enhances the page's usability, allowing users to share important details with others seamlessly.