



# EXPLORE TAMILNADU



## MINI PROJECT REPORT

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MEPCO SCHLENK ENGINEERING COLLEGE  
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**MAY 2023**

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**BONAFIDE CERTIFICATE**

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## ACKNOWLEDGEMENT

We sincerely thank our respected principal **Dr.S.ARIVAZHAGAN**, for providing necessary facilities to carry out this work successfully.

We wish to express my sincere gratitude to **Dr.J.Angela Jennifa Sujana**. Associate Professor (Sr.Grade) and Head of the Artificial Intelligence & Data Science department for his stimulating support and encouragement for the completion of this project work.

We are graceful to our Project guide **Dr. J. Angela Jennifa Sujana** Associate Professor (Sr. Grade) and Head of the Artificial Intelligence & Data Science department for their insightful comments and valuable suggestions helped me to complete this project work successfully.

Our sincere thanks go to our revered faculty members and lab technicians for their help over this project work.

Last but not least, we extend our indebtedness to our beloved family and our friends for their support, which made this project successful.

## **INTRODUCTION :**

Nowadays, many people rely on online services to plan a trip. However, they are usually faced with the problem of being supplied with lots of information. In consequence, they have to invest a great deal of time to decide what to visit, when, etc. This huge amount of possibilities available on the net makes it difficult for users to discern the more interesting offers from the rest. As a result, the more appealing offers can go unnoticed.

In order to improve the tourist experience, recommender systems offer personalised information to users. In other words, the system selects the more suitable and adequate offers for users and offers activities appropriate to their profile.

Through a web application, the system allows users to know nearest activities available in the region of user's specification. Users just have to indicate their interests in general terms and the system will select the more convenient activities for them.

## **APPLICATIONS :**

1. Used to recommend tourist spots to travellers.
2. Provide insight on newly formed tourist locations or tourist attractions.
3. Showcases nearby tourist spots depending on the location entered by the user.

## **OBJECTIVE:**

- Categorize users with the help of cluster analysis and differentiate them according to several aspects, such as demographical data, motivations, etc
- Collect the information that the users provide when interacting with the system, in order to obtain more information of users profiles and, therefore, improve the recommendations.

## **MODULES:**

- **ReactJs**
- **NodeJs**
- **MongoDB**

## **FRONT END:**

### **ReactJS:**

The React.js framework is an open-source JavaScript framework and library developed by Facebook. It's used for building interactive user interfaces and web applications quickly and efficiently with significantly less code than you would with vanilla JavaScript.

### **React router dom:**

react-router is the core package containing standard components and functionalities to implement routing in React applications. On the other hand, react-router-dom is a specialized package that you can use only in web-browser-based application development.

### **Mongoose:**

Mongoose is a Node.js-based Object Data Modeling (ODM) library for MongoDB. It is akin to an Object Relational Mapper (ORM) such as SQLAlchemy for traditional SQL databases. The problem that Mongoose aims to solve is allowing developers to enforce a specific schema at the application layer.

## **BACK END:**

### **NodeJS:**

Developers use Node.js to create server-side web applications, and it is perfect for data-intensive applications since it uses an asynchronous, event-driven model. Now that we know what is Node, let's look at why it is so prevalent in web development.

### **Express js:**

Express is a node.js web application framework that provides broad features for building web and mobile applications. It is used to build a single page, multipage, and hybrid web application. It's a layer built on the top of the Node.js that helps manage servers and routes.

## **DATABASE:**

### **MongoDB:**

MongoDB is a document database used to build highly available and scalable internet applications. With its flexible schema approach, it's popular with development teams using agile methodologies.

## CODE

### Home.jsx

```
import React from "react";
import { useNavigate } from "react-router-dom";
import '../mapcss/home.css'
import tn from '../image/Tamilnadu image.png'

export default function Home(){
  const navigate = useNavigate()
  // const hanndleSubmit=()=>{
  //   window.location.replace('http://localhost:3000/Map')
  // }

  const home = {
    display: 'flex',
    flexDirection: 'column',
    alignItems: 'center',
    justifyContent:'center',
    height: '550px',
    borderStyle: "solid",
    borderRadius: "50px",
    width: "460px",
    position:"fixed",
    top:"110px",
    // bottom: "100px",
    left: "525px",
    // right: "20px",
    backgroundColor:"#ECF87F"
  }

  const main={
    display: 'flex',
    flexDirection: 'column',
    alignItems: 'center',
    // justifyContent: 'center',
    height: '100vh',
    backgroundColor:"#4CAF50"
  }

  const goButton = {
    margin: '10px',
    padding: '10px 20px',
```

```

    fontSize: '1.2rem',
    fontWeight: 'bold',
    backgroundColor: '#4CAF50',
    color: 'white',
    border: 'none',
    borderRadius: '5px',
    cursor: 'pointer',
  }
  return(
    <div style={main}>
      <div className="home" style={home}>
        <h1
style={{textAlign:"center",color:"#4CAF50",fontWeight:"100px",marginTop:"100px"}}>Explo
re Tamil Nadu</h1>
          { /* <img src={tn} alt="Tamilnadu Emblem" /> */ }
          <img src={tn} alt="Tamilnadu emblem" className="img" />
          <button onClick={e=>navigate('/map')} className="gobutton" style={goButton}>Let's
Go</button>
          <button onClick={e=>navigate('/addPlace')} className="addbutton"
style={goButton}>Add new Place</button>
        </div>

      </div>
    )
  }

```

## Map.jsx

```

import { React } from "react";
import img1 from '../image/img1.jpg'
import '../mapcss/map.css'
import { useNavigate } from "react-router-dom";

export default function TNMap() {
  const navigate = useNavigate()

  return(
    <div className="Map" style={{backgroundColor:'skyblue'}}>
      <img src={img1} alt="tamilnadu image" />
      <button id="tuty"
style={{position: 'absolute', top: '620px', left: '690px', transform: 'translate(-50%, -
50%)', margin: '10px',
padding: '10px 20px',
fontSize: '16px',
fontWeight: 'bold',
// backgroundColor: 'powderblue',

```



```

        color: '#ECF87F',
        border: 'none',
        borderRadius: '5px',
        cursor: 'pointer' }}
        onClick={e=>navigate('/tuty')} >Tuticorin</button>
        <button id="madurai"
        style={{position: 'absolute', top: '500px', left: '685px', transform: 'translate(-50%, -
50%)',margin: '10px',
        padding: '10px 20px',
        fontSize: '16px',
        fontWeight: 'bold',
        // backgroundColor: '#ECF87F',
        color: '#ECF87F',
        border: 'none',
        borderRadius: '5px',
        cursor: 'pointer'

        }}
        onClick={e=>navigate('/madurai')} >Madurai</button>
        <button id="Tirunelveli"
        style={{position: 'absolute', top: '673px', left: '640px', transform: 'translate(-50%, -
50%)',margin: '10px',
        padding: '10px 20px',
        fontSize: '16px',
        fontWeight: 'bold',

        color: '#ECF87F',
        border: 'none',
        borderRadius: '5px',
        cursor: 'pointer' }}
        onClick={e=>navigate('/nellai')} >Tirunelveli</button>
        <button id="Coimbatore" style={{position: 'absolute', top: '350px', left: '550px',
transform: 'translate(-50%, -50%)',margin: '10px',
        padding: '10px 20px',
        fontSize: '16px',
        fontWeight: 'bold',

        color: '#ECF87F',
        border: 'none',
        borderRadius: '5px',
        cursor: 'pointer' }} onClick={e=>navigate('/kovai')}>Coimbatore</button>

    </div>
)
}

```

## Addplace.jsx

```
import React, {useState} from 'react';
import axios from 'axios'
import '../mapcss/addplace.css'

export default function AddPlace() {
  const [city, setCity] = useState("");
  const [description, setDescription] = useState("")
  const [image, setImage] = useState(null)
  const [name, setName] = useState("");
  // let name, value
  const handlePlace = (e) => {
    setName(e.target.value)
  }
  const handleCity = (e) => {
    setCity(e.target.value)
  }
  const handleDesc = (e) => {
    setDescription(e.target.value)
  }

  const handleImage = (e) => {
    setImage(e.target.files[0])
  }

  const handlesubmit = async(e) => {
    e.preventDefault();
    const formData = new FormData();
    formData.append('name', name);
    formData.append('city', city);
    formData.append('description', description);
    formData.append('image', image);
    await axios.post('/api/adddetails', formData, {
      header: {
        'Content-Type' : 'multipart/form-data'
      }
    })
  }

  return(
    <div className='div1'>
      <div className='div2'>
        <h2>Adding Details to the Database</h2>
        <form action="">
```

```

        Place Name : <input type="text" name="name" id="name" value={name}
onChange={handlePlace} /><br />
        City: <input type="text" name="city" id="city" value={city} onChange={handleCity}
/><br />
        Description: <textarea name="description" id="desc" value={description} cols="30"
rows="10" onChange={handleDesc}></textarea><br />
        image : <input type="file" onChange={handleImage} name='file'/><br />
        <button onClick={handlesubmit}>Add to database</button>
    </form>
</div>
</div>

)

}

```

### **Routing.jsx**

```

import React from 'react'
import {BrowserRouter as Router,Routes,Route} from 'react-router-dom'
import Home from './home'
import AddPlace from './addplace'
import ShowResult from './show'
import TNMap from './map'
import Tuty from './tuty'
import Madurai from './madurai'
import Nellai from './nellai'
import Coimbatore from './coimbatore'

export default function Routing (){
    return(
        <Router>
            <Routes>
                <Route path="/" element={<Home/>} />
                <Route path="/addPlace" element={<AddPlace/>} />
                <Route path="/showdetail" element={<ShowResult/>} />
                <Route path="/map" element={<TNMap />} />
                <Route path="/tuty" element={<Tuty/>} />
                <Route path="/madurai" element={<Madurai />} />
                <Route path="/nellai" element={<Nellai/>} />
                <Route path="/kovai" element={<Coimbatore />}></Route>
            </Routes>
        </Router>
    )}
}

```

### **Madurai.jsx**

```
import React,{useState,useEffect} from "react";
import img1 from '../image/Madurai.png'
// import { useNavigate } from "react-router-dom";

export default function Madurai(){
  const [data,setData] = useState([ {city : "",
    description:"",
    imagename:"",
    name:"",
    _v:"",
    _id:""
  }]);
  // const navigate = useNavigate()
  const [city, setCity] = useState("");
  useEffect(()=>{
    },[city])
  const handleSubmit = (e) =>{
    setCity(e.target.id)
    let url = '/api/details';
    if (city) {
      url += `?city=${city}`;
    }
    fetch(url)
      .then((res)=>res.json())
      .then((data)=>{
        console.log(data)
        setData(data)
      })
      .catch((err)=>console.log(err))
    // navigate('/showdetails')

  }
  const mapStyle = {
    width:"90vw",
    height : "100vh"
  }
  const kvpButton = {
    position: 'absolute',
    top: '30%',
    left: '50%',
    transform: 'translate(-50%, -50%)',
    margin: '10px',
    padding: '10px 20px',
```

```

    fontSize: '1.2rem',
    fontWeight: 'bold',
    backgroundColor: '#4CAF50',
    color: 'white',
    border: 'none',
    borderRadius: '5px',
    cursor: 'pointer'
  }
  const etmButton = {
    position: 'absolute',
    top: '50%',
    left: '70%',
    transform: 'translate(-50%, -50%)',
    margin: '10px',
    padding: '10px 20px',
    fontSize: '1.2rem',
    fontWeight: 'bold',
    backgroundColor: '#4CAF50',
    color: 'white',
    border: 'none',
    borderRadius: '5px',
    cursor: 'pointer'

  }
  const tutyButton = {
    position: 'absolute',
    top: '70%',
    left: '45%',
    transform: 'translate(-50%, -50%)',
    margin: '10px',
    padding: '10px 20px',
    fontSize: '1.2rem',
    fontWeight: 'bold',
    backgroundColor: '#4CAF50',
    color: 'white',
    border: 'none',
    borderRadius: '5px',
    cursor: 'pointer'
  }
  const trcButton = {
    position: 'absolute',
    top: '120%',
    left: '55%',
    transform: 'translate(-50%, -50%)',
    margin: '10px',
    padding: '10px 20px',

```

```

    fontSize: '1.2rem',
    fontWeight: 'bold',
    backgroundColor: '#4CAF50',
    color: 'white',
    border: 'none',
    borderRadius: '5px',
    cursor: 'pointer'
  }
  return(
    <div>
      <img src={img1} alt="Tuty Map" style={mapStyle} />
      { /* <IconButton onClick={e=>navigate('/map')}> <ArrowBackIcon /> </IconButton> */ }
      <button id="Kovilpatti" style={kvpButton}
onClick={handleSubmit} >Alangarnallur</button>
      <button id="Ettayapuram" style={etmButton} onClick={handleSubmit}>Madurai</button>
      <button id="Tuticorin" style={tutyButton}
onClick={handleSubmit}>Thiruparankundram</button>
      { /* <button id="Trichendur" style={trcButton}
onClick={handleSubmit} >Trichendur</button> */ }
      { /* <button id="back"></button> */ }
    <div>
      <ul>
        {data.map((detail)=>(
          <li>
            <img src={`../uploads/${detail.imagename}`} alt= {detail.name} />
            <h3> {detail.name} </h3>
            <h2> {detail.city}</h2>
            <p>{detail.description}</p>
          </li>
        ))}
      </ul>
    </div>
  </div>
)
}

```

### **Tuticorin.jsx**

```

import React,{useState,useEffect} from "react";
import img1 from '../image/tuty.png'
// import { useNavigate } from "react-router-dom";

```

```

export default function Tuty(){
  const [data,setData] = useState([ {city : "",

```

```

        description:"",
        imagename:"",
        name:"",
        _v:"",
        _id:""
    });
    // const navigate = useNavigate()
    const [city, setCity] = useState("");
    useEffect(()=>{
    },[city])
    const handleSubmit = (e) =>{
        setCity(e.target.id)
        let url = '/api/details';
        if (city) {
            url += `?city=${city}`;
        }
        fetch(url)
        .then((res)=>res.json())
        .then((data)=>{
            console.log(data)
            setData(data)
        })
        .catch((err)=>console.log(err))
        // navigate('/showdetails')

    }
    const mapStyle = {
        width:"100vw",
        height : "150vh"
    }
    const kvpButton = {
        position: 'absolute',
        top: '50%',
        left: '30%',
        transform: 'translate(-50%, -50%)',
        margin: '10px',
        padding: '10px 20px',
        fontSize: '1.2rem',
        fontWeight: 'bold',
        backgroundColor: '#4CAF50',
        color: 'white',
        border: 'none',
        borderRadius: '5px',
        cursor: 'pointer'
    }
    const etmButton = {

```

```

    position: 'absolute',
    top: '40%',
    left: '50%',
    transform: 'translate(-50%, -50%)',
    margin: '10px',
    padding: '10px 20px',
    fontSize: '1.2rem',
    fontWeight: 'bold',
    backgroundColor: '#4CAF50',
    color: 'white',
    border: 'none',
    borderRadius: '5px',
    cursor: 'pointer'
  }
  const tutyButton = {
    position: 'absolute',
    top: '88%',
    left: '55%',
    transform: 'translate(-50%, -50%)',
    margin: '10px',
    padding: '10px 20px',
    fontSize: '1.2rem',
    fontWeight: 'bold',
    backgroundColor: '#4CAF50',
    color: 'white',
    border: 'none',
    borderRadius: '5px',
    cursor: 'pointer'
  }
  const trcButton = {
    position: 'absolute',
    top: '120%',
    left: '55%',
    transform: 'translate(-50%, -50%)',
    margin: '10px',
    padding: '10px 20px',
    fontSize: '1.2rem',
    fontWeight: 'bold',
    backgroundColor: '#4CAF50',
    color: 'white',
    border: 'none',
    borderRadius: '5px',
    cursor: 'pointer'
  }
  return(

```



```

<div>
  <img src={img1} alt="Tuty Map" style={mapStyle} />
  { /* <IconButton onClick={e=>navigate('/map')}> <ArrowBackIcon /> </IconButton> */ }
  <button id="Kovilpatti" style={kvpButton} onClick={handleSubmit} >Kovilpatti</button>
  <button id="Ettayapuram" style={etmButton}
onClick={handleSubmit}>Ettayapuram</button>
  <button id="Tuticorin" style={tutyButton} onClick={handleSubmit}>Tuticorin</button>
  <button id="Trichendur" style={trcButton}
onClick={handleSubmit} >Trichendur</button>
  { /* <button id="back"></button> */ }
</div>
<ul>
  {data.map((detail)=>(
    <li>
      <img src={`../uploads/${detail.imagename}`} alt= {detail.name} />
      <h3> {detail.name} </h3>
      <h2> {detail.city} </h2>
      <p> {detail.description} </p>
    </li>
  ))}
</ul>
</div>
</div>
)
}

```

### **Coimbatore.jsx**

```

import React,{useState,useEffect} from "react";
import img1 from '../image/Coimbatore.png'
import '../mapcss/button.css'
// import { useNavigate } from "react-router-dom";

```

```

export default function Coimbatore(){
  const [data,setData] = useState([ {city : "",
    description:"",
    imagename:"",
    name:"",
    __v:"",
    _id:""
  }]);
  // const navigate = useNavigate()
  const [city, setCity] = useState("");
  useEffect(()=>{

```

```

},[city])
const handleSubmit = (e) =>{
  setCity(e.target.id)
  let url = '/api/details';
  if (city) {
    url += `?city=${city}`;
  }
  fetch(url)
  .then((res)=>res.json())
  .then((data)=>{
    console.log(data)
    setData(data)
  })
  .catch((err)=>console.log(err))
  // navigate('/showdetails')

}
const mapStyle = {
  width:"60vw",
  height : "90vh"
}
const ishaButton = {
  position: 'absolute',
  top: '150px',
  left: '650px',
  transform: 'translate(-50%, -50%)',
  margin: '10px',
  padding: '10px 20px',
  fontSize: '1.2rem',
  fontWeight: 'bold',
  backgroundColor: '#4CAF50',
  color: 'white',
  border: 'none',
  borderRadius: '5px',
  cursor: 'pointer'
}
const vlpButton = {
  position: 'absolute',
  top: '500px',
  left: '60%',
  transform: 'translate(-50%, -50%)',
  margin: '10px',
  padding: '10px 20px',
  fontSize: '1.2rem',
  fontWeight: 'bold',
  backgroundColor: '#4CAF50',

```

```

        color: 'white',
        border: 'none',
        borderRadius: '5px',
        cursor: 'pointer'
    }
    const kvkButton = {
        position: 'absolute',
        top: '250px',
        left: '560px',
        transform: 'translate(-50%, -50%)',
        margin: '10px',
        padding: '10px 20px',
        fontSize: '1.2rem',
        fontWeight: 'bold',
        backgroundColor: '#4CAF50',
        color: 'white',
        border: 'none',
        borderRadius: '5px',
        cursor: 'pointer'
    }

    const CoimbatoreButton = {
        position: 'absolute',
        top: '150px',
        left: '850px',
        transform: 'translate(-50%, -50%)',
        margin: '10px',
        padding: '10px 20px',
        fontSize: '1.2rem',
        fontWeight: 'bold',
        backgroundColor: '#4CAF50',
        color: 'white',
        border: 'none',
        borderRadius: '5px',
        cursor: 'pointer'
    }

    return(
        <div>
            <img src={img1} alt="Coimbatore Map" style={mapStyle} />
            {/* <IconButton onClick={e=>navigate('/map')}> <ArrowBackIcon /> </IconButton> */}
            <button id="Isha Foundation" style={ishaButton} onClick={handleSubmit} >Isha</button>
            <button id="Valparai" style={vlpButton} onClick={handleSubmit}>Valparai</button>
            <button id="Kovai Kuttralam" style={kvkButton}
onClick={handleSubmit}>KovaiKuttralam</button>

```

```

        <button id="Coimbatore" style={CoimbatoreButton}
onClick={handleSubmit}>Coimbatore</button>
        { /* <button id="Trichendur" style={trcButton}
onClick={handleSubmit} >Trichendur</button> */ }
        { /* <button id="back"></button> */ }
        <div>
            <ul>
                {data.map((detail)=>(
                    <li>
                        <img src={` /uploads/${detail.imagename}`} alt= {detail.name} />
                        <h3> {detail.name} </h3>
                        <h2>{detail.city}</h2>
                        <p>{detail.description}</p>
                    </li>
                ))}
            </ul>
        </div>
    </div>
)
}

```

## OUTPUT:

### HOME PAGE:

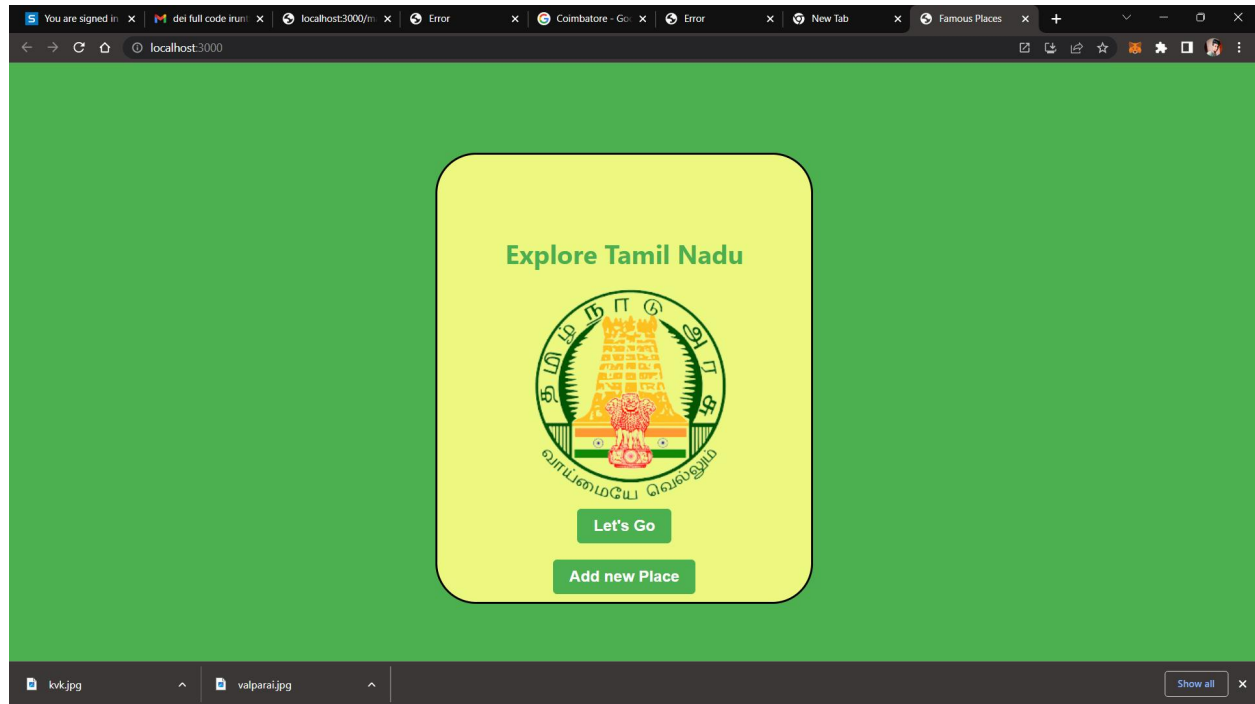


FIGURE 1

## ADD PLACES:

The screenshot shows a web browser window with the address bar displaying 'localhost:3000/addPlace'. The browser has several tabs open, including 'You are signed in as', 'dei full code iruntha', 'localhost3000/map', 'Error', 'Coimbatore - Google', 'Famous Places', and 'New Tab'. The main content area is a form titled 'Adding Details to the Database' with a light yellow background and green borders. The form contains the following fields:

- Place Name :** A text input field containing 'Coimbatore'.
- City:** A text input field containing 'Coimbatore'.
- Description:** A text area containing a detailed description of Coimbatore: 'state of Tamil Nadu. It is located on the banks of the Moyyal River and surrounded by the Western Ghats. Coimbatore is the second largest city in Tamil Nadu after Chennai in terms of population and the 16th largest urban agglomeration in India as per the census 2011. It is administered by the Coimbatore Municipal Corporation and is the administrative capital of Coimbatore District.'
- image :** A file selection button labeled 'Choose File' with 'kvk.jpg' displayed next to it.
- Add to database** button at the bottom.

At the bottom of the browser window, there is a file explorer showing two files: 'kvk.jpg' and 'valparai.jpg'. A 'Show all' button is visible on the right side of the file explorer.

**FIGURE 2**

**TAMIL NADU MAP:**



**FIGURE 3**

## TUTICORIN MAP



FIGURE 4



## RETERIVED OUTPUT

-  Manapad Beach

### Manapad Beach

## Tuticorin

In a world full of popular tourist destinations that are being commercially exploited, there are still some truly serene and mesmerising locations. India is no exception to this altering tourism scenario and the quaint coastal village in the state of Tamil Nadu – Manapad – is proof for the existence of such relatively unexplored and untouched places. This small hamlet nestled between naturally formed dunes on one side and enclosed by clear blue seas on three sides stands still with all its beauty and majesty. Ingrained in history and bestowed with inimitable natural splendour, Manapad is a fantastic location for leisure activities and water sports as well. This pristine destination is surrounded by many places of great heritage, tourism and religious significance.

-  Kalakkad Wildlife sanctuary

### Kalakkad Wildlife sanctuary

## Tuticorin

The Kalakkad Wildlife sanctuary is one of the few national parks in South India that house the Tiger, Lion tailed macaque, Nilgiri langur, bonnet macaque, langur, Nilgiri tahr, sambar, sloth bear, gaur, elephant, flying squirrel, panther, wild dog and pangolin are some of the other animals found here. Trekking and safari are some of the activities you can do over here.

-  Tuticorin Port

### Tuticorin Port

## Tuticorin

The harbor port in Tuticorin, also known as Thoothukudi, is a major seaport located in the southern part of India, in the state of Tamil Nadu. It is one of the 12 major ports in the country and is managed by the Tuticorin Port Trust. The port is strategically located on the east coast of India, near the Gulf of Mannar, which is a major shipping route for international trade. The harbor port in Tuticorin is known for its modern infrastructure and facilities, which enable it to handle a wide range of cargo, including containers, bulk, liquid, and general cargo. The port has a deep draft, which allows it to handle large vessels and

FIGURE 5

**CONCLUSION :**

- Our project is to prove Tourism Promoter is good in producing relevant outputs and it is implemented by our team.