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## **INT222: ADVANCED WEB DEVELOPMENT**

**WE TRAVEL**

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## **Introduction**

The design of this We Travel Express web application considers the Indian culture's joint family system.

India is a country with a diverse culture. India's culture refers to a collection of minor distinct cultures. Clothing, festivals, languages, religions, music, dance, architecture, food, and art are all part of Indian culture.

To witness this, you will need a website to book your travel destination to relax, meditate, and spend time with your loved ones and friends.

India is unquestionably a symbol of global unity.

This Ladakh alpine village is swiftly climbing to the top, with the towering Himalayas providing a stunning background and lots of opportunities for adrenaline enthusiasts to get their fill.

The Anaimalai or Anamala Hills, also known as the Elephant Mountains, are a group of mountains that form the southern portion of the Western Ghats. Kangchenjunga Mountain, LUSHAI Hills, and SHIVALIK Hills can be seen on the website's mountain page.

No India vacation itinerary would be complete without a visit to this beach paradise.

This former Portuguese colony offers something for everyone temples and cathedrals aplenty for the cultural vulture pubs and clubs for the party animal's restaurants that boast just about every cuisine under the sun on the beaches page of the website

India is a land of diverse experiences and exotic locations. It is a world of vibrant colors and diverse cultural sites, whether magnificent monuments, heritage temples, or tombs.

The country's ancient cultural heritage is inextricably linked to its current technological existence. Varanasi, one of the most important Hindu religious centres, must be seen to be believed. The place is bustling with devotees, sadhus, tourists, and locals, and it is brimming with sights that are uniquely Indian.

The temples and ghats (steps leading to the Ganga) are a sight to behold, with thousands of devotees performing religious rituals and Hindu priests performing rites. You can see them on the website's pilgrimage page.

## TECHNOLOGIES USED:

1. HTML
2. CSS
3. Express
4. Java Script
5. Bootstrap

## DEPENDENCIES USED:

1. Express
  - a. It is a minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications.
2. Nodemon
  - a. It is a program that assists in the development of Node.js-based applications by automatically restarting the node application when directory file changes are detected.
3. Chalk
  - a. It is used to decorate the output on the console. With the help of this, we can see which task is going in at the console level.

The screenshot shows a development environment with a code editor and a terminal window. The code editor displays a file named 'index.js' with the following content:

```
//home route
app.get('/', (req, res) => {
  console.log(chalk.green("Home accessed"));
  res.render('home.ejs', { title: 'Home' });
});
```

The terminal window shows the output of the application's logs:

PROBLEMS	OUTPUT	TERMINAL
	Home accessed Mountain accessed Adventure accessed Beaches accessed Pilgrimage accessed Booking accessed	

## 4. express-validator

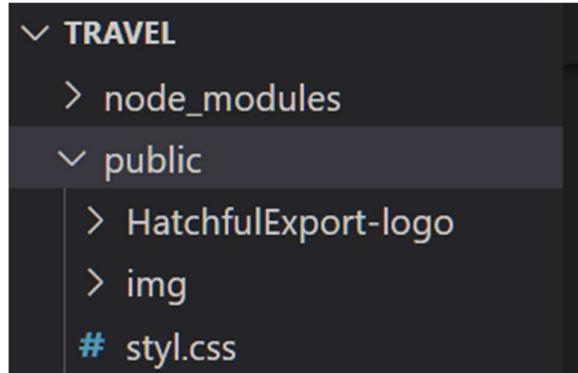
- a. It helps to validate the data in multiple manners so that no ambiguous data is present in the form.

```
53  //posting data from booking page and getting in json format
54  //for validating we write in [] below
55  app.post('/booking', uncodedparser, [
56      check('no_travelar', "Cant be empty")
57          .exists()
58          .isLength({ min: 1 }),
59      check('no_senior_citizen', "Cant be empty")
60          .exists()
61          .isLength({ min: 1 }),
62      check('trip_days', "Cant be empty")
63          .exists()
64          .isLength({ min: 1 }),
65      check('email', "Email is not valid")
66          .isEmail()
67          .normalizeEmail(),
68      check('phone', "Phone number is not valid")
69          .exists()
70          .isLength({ min: 10, max: 10 })
71  ],
72      (req, res) => {
```

## 5. Path

- a. It is a middleware that helps to locate the static file that is used in the application while developing it.

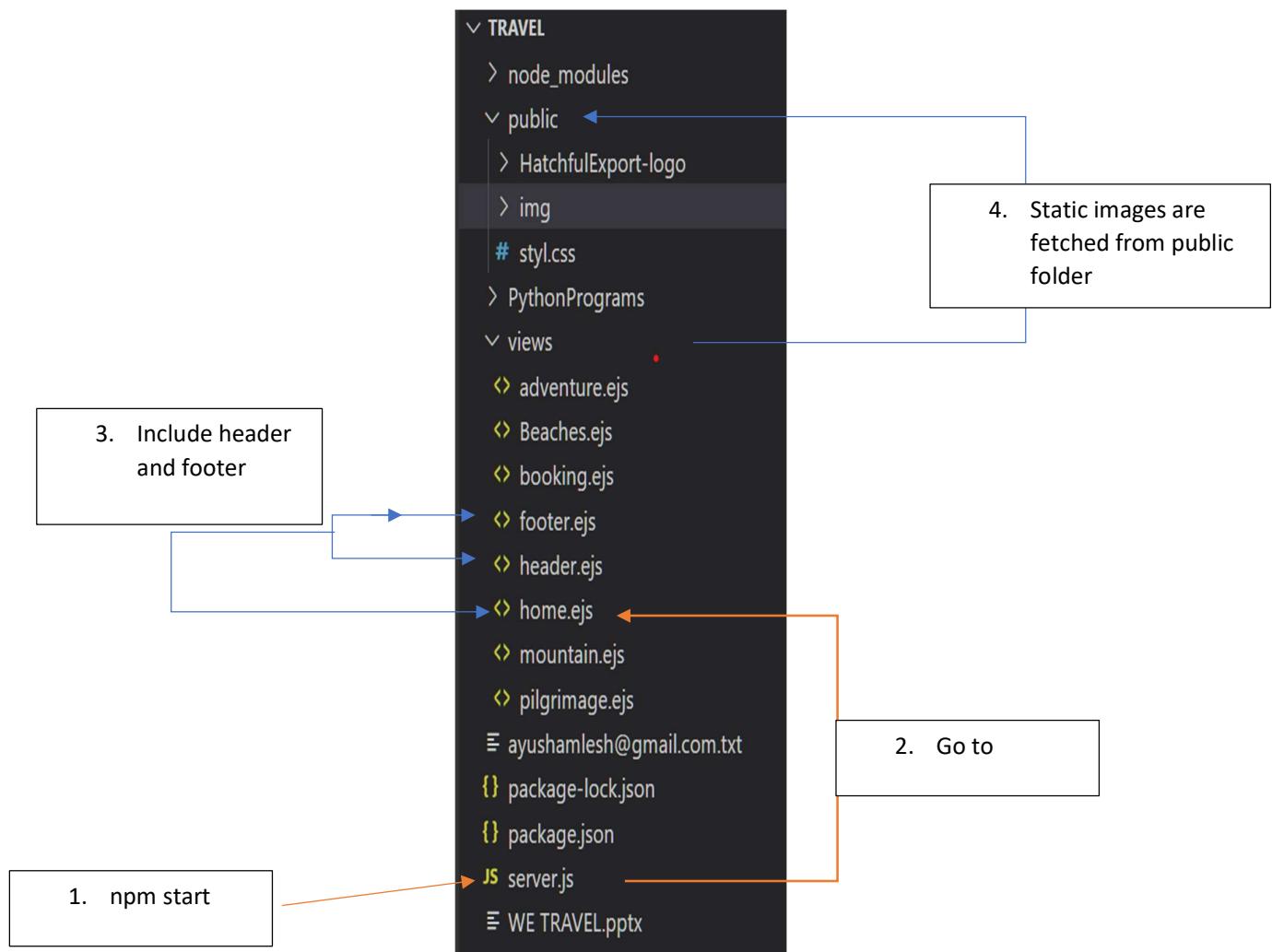
```
// using this middleware to serve static files
app.use(express.static('public'));
```



## 6. body-parser

- It parses the data that is present on the body part of the application while posting the data due to which it is easy to store the data into a JSON file.

## FLOW OF OPERATION DONE BY WEB APPLICATION:



## WORKING ON WEB APPLICATION:

1. Starting the server with the help of “npm start”

```
PS E:\B.TECH\Semester5th\advanced_web_development\travel> npm start

> travel@1.0.0 start
> nodemon server.js

[nodemon] 2.0.20
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): ***!
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node server.js`
Server is running on port 2022
```

2. This will read the server.js
3. From the requested URL it will find the app.get method having the home (localhost:2022) URL.

```
//home route
app.get('/', (req, res) => {
  console.log(chalk.green("Home accessed"));
  res.render('home.ejs', { title: 'Home' });
});
```

4. The file home.ejs will be fetched from the views folder. After this, there will be “Home accessed” output will appear in the console.

```
Server is running on port 2022
Home accessed
```

5. From this page you can access any part of India concerning MOUNTAINS, ADVENTURE, BEACHES, PILGRIMAGE, and also book your visit to any place.

6. On hovering over the date section it will change to the current time with the help of the onmouseover function and replaceWith method in js.

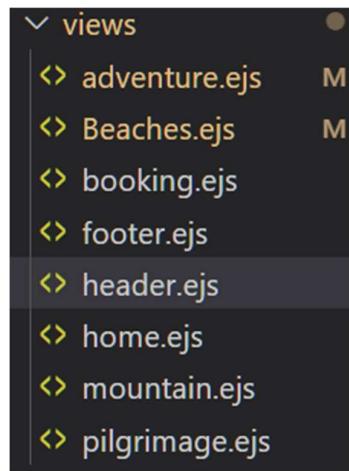
```
<button class="but2" onmouseover="mouseovera()" style="color: black">
  <h3 id="SECOND">
    <script>
      const myDate = new Date();
      document.write(myDate.getDate() + "/" + (myDate.getMonth() + 1)
      + "/" + myDate.getFullYear());
    </script>
  </h3>
</button>
<script>
  function mouseovera() {
    document.getElementById("SECOND").replaceWith(myDate.getHours()
    + ":" + myDate.getMinutes());
  }
  You, 3 weeks ago • removed mouseout() function as it was not
</script>
```

7. When you click on the Mountain button, it will fetch the href link.

```
<ul class="ul">
  <li id="li"><a href="/">Home</a></li>
  <li id="li"><a href="/mountain">Mountain</a></li>
  <li id="li"><a href="/adventure">Adventure</a></li>
  <li id="li"><a href="/Beaches">Beaches</a></li>
  <li id="li"><a href="/pilgrimage">Pilgrimage</a></li>
</ul>
```

- a. From here it will go to server.js and trigger the "/mountain" method.

b. This will fetch the mountain .ejs from the views folder



8. Now coming to the “Booking” part of our application.

a. Here I used HTML form to take input from the user

A screenshot of a travel booking form titled "Details". The form is set against a background of a coastal scene with green hills and a body of water. The form fields include:

- Trip Days:** A text input field.
- Email:** A text input field.
- Phone:** A text input field divided into "Area Code" and "Phone Number".
- Destination:** A dropdown menu with the placeholder "--Choose Destination--".
- Are you opt for travel insurance ?** A question with two radio button options: "Yes" (selected) and "No".
- Register:** A large teal-colored button at the bottom.

- b. On clicking the register button the data filled will be “posted” to the server.js “/booking”

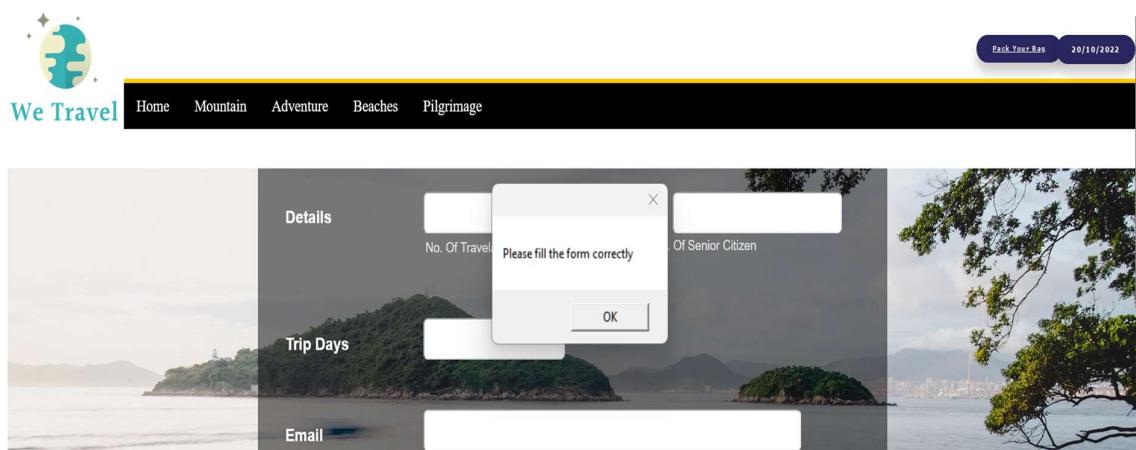
```
201  <div class="main">
202
203  <form method="POST" action="/booking">
204  <div id="name">
205    <h2 class="name">
206      Details </h2>
```

- c. It will validate the data, if the data is ok then it will redirect to the home page and reflect successful at the place of the title

```
//posting data from booking page and getting in json format
//for validating we write in [] below
app.post('/booking', uncodedparser, [
  check('no_travelar', "Cant be empty")
    .exists(),
  check('no_senior_citizen')
    .exists(),
  check('trip_days', "Cant be empty")
    .exists(),
  check('email', "Email is not valid")
    .isEmail()
    .normalizeEmail(),
  check('phone', "Phone number is not valid")
    .exists()
],
  (req, res) => {
```

9. If there is any error the “/booking” will redirect itself with the “try again” title name and show the error.

```
/* creating a var to store error message and
   coming back to the registration page*/
const errors = validationResult(req)
if (!errors.isEmpty()) {
  console.log(chalk.bgRed(JSON.stringify(errors)));
  var aletrt = require('alert');
  aletrt(`Please fill the form correctly`);
  res.render('booking.ejs', { title: 'TRY AGAIN' });
}
```

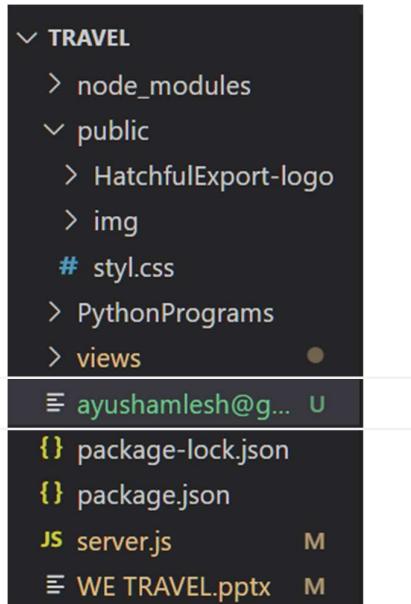


10. The successful output will create a text file with the help of “fs.writeFileSync and JSON.stringify();”

```
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```

```
    else {
      //storing the data that came from the body form
      const data = (req.body);
      // setting phone number as the file name
      const filename = data.email;
      // converting the data to string format and storing it in file
      fs.writeFileSync(filename + ".txt", JSON.stringify(data));
      console.log(chalk.bgYellowBright("Data stored"));
      res.render('home.ejs', { title: 'Sucessfull' });
    }
};
```

11. The file will be created from the “email” input that the user provided.



A screenshot of a file explorer window showing a directory structure for a project named "TRAVEL". The structure includes "node\_modules", "public" (containing "HatchfulExport-logo", "img", "# styl.css", "PythonPrograms", and "views"), and files like "package-lock.json", "package.json", "server.js", and "WE TRAVEL.pptx". A file named "ayushamlesh@g..." is also visible. The "views" folder is highlighted with a yellow selection bar.

```
└─ TRAVEL
    ├ node_modules
    └─ public
        ├ HatchfulExport-logo
        ├ img
        ├ # styl.css
        ├ PythonPrograms
        └─ views
            └ ayushamlesh@g...
    └─ package-lock.json
    └─ package.json
    └─ server.js
    └─ WE TRAVEL.pptx
```

12. In this manner you came and enjoyed the get-together of Indian culture and planned your holidays.

## **ALL PAGES IN A SNAP:**

## 1.Home.ejs

## 2. Mountain.ejs

### 3. Adventure.ejs

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**Adventure**

A world which is sure to excite you and bring out the travelers passion in you. We are die hard travelers and explorers who have traveled the world over and believe and initiate them into the amazing and exciting world of adventure sports. Mother nature has created and in allowing us to explore and admire her pristine natural beauty and we in return have dedicated ourselves to do the same. We travel with the intent to make your journey a experience which you would not forget. We travel to find the hidden gems and the ultimate sweet spots which are off the beaten track.



**RIVER RAFTING**

Rafting and white water rafting are recreational outdoor activities which use an inflatable raft to navigate a river or other body of water. This is often done on whitewater or turbulent water. Ceiling with risk and the need for teamwork is often a part of the experience.

Rafting on certain sections of a river is considered an extreme sport and can be fatal, while other sections are more tame or difficult. Rafting is also a competitive sport throughout the world which culminates in a world rafting championship event between the participating nations. The International Rafting Federation, often referred to as the IRF, is the worldwide body which oversees all aspects of the sport.

**RIVER RAFTING**

LOCATION Maharashtra, India  
Elevation 0 m | 0 ft



**ARAMBOL BEACH**

Arambol beach is considered to be one of the most beautiful beaches in Goa, amongst many to visit. It is a long stretch of sand with a rocky outcrop at the end. Arambol beach is a smaller beach with a "fresh water lake" close to the sea. The water here is a mixture of ocean water and sea water. The jungle valley, enclosed between two hills hide a spectacular banyan tree.

**SKY DIVING**

**Dive Gait**

Tandem skydiving or student parachuting refers to a type of skydiving where a student skydiver is connected to an instructor via a harness. The instructor guides the student through the takeoff, deployment of the canopy, and landing. The student needs only minimal instruction before making a tandem jump with the instructor.

**Heli Skiing**

Heli Skiing is such an adventure in Himachal Pradesh where tourist can explore great heights and breathtaking glaciars. Manali is the most popular destination for all the enthusiasts who want to explore the challenging terrain and witness beauty of repeated helicopter rides. The marvellous beauty of silvery snow covered peaks and the surrounding areas extends the fun of Heli -skiing at Himachal Pradesh.



**SCUBA DIVING**

Scuba diving is a mode of underwater breathing where the diver uses a self-contained underwater breathing apparatus (scuba), which is completely independent of the surface. The diver carries all the equipment required for breathing air underwater:[1] Scuba divers carry their own source of compressed breathing gas, usually air,[2] allowing them greater independence and mobility than breath-hold divers. Scuba divers have greater underwater endurance than breath-hold divers.[1] Although the use of compressed air is the most common, breathing mixtures of oxygen called enriched air or nitrox has become popular due to its benefit of reduced nitrogen intake during decompression. These systems discharge the breathing gas into the environment as it is exhaled, and consist of one or more cylinders connected to a demand valve or regulator. They may include additional cylinders for range extension, decompression gas or emergency breathing gas. Closed-circuit or semi-closed circuit rebreather systems allow recycling of exhaled gases.

*It is better to listen to a place once in a lifetime than go and see it for yourself. Nobody gets happiness for a full life, that's why we should roam around beautiful places. Because in every beautiful journey we can spend small life.*

-आत्म असरेता

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# 4.Beaches.ejs



## BEACHES

A beach is a landform alongside a body of water which consists of loose particles, such as sand, gravel, or pebbles. Beaches are typically made from rock, such as sand, gravel, or pebbles. Beaches may also be biological in origin, such as mollusc shells or coraline algae. Beaches are often developed by humans for recreation purposes, such as lifeguard posts, changing rooms, showers, restaurants, bars, nightclubs, and other commercial venues (such as resorts, camps, hotels, and restaurants). However, Wild beaches, or undiscovered beaches, are not developed in this manner. Wild beaches are considered to be natural beauty and preserved nature. Beaches typically occur in coastal areas where wave or current action deposits and reworks sediments.

**AUROVILLE BEACH**

Auroville has its origins in the French language, "Aurore", meaning dawn and "ville" meaning city. Additionally, it is named after Sri Aurobindo (1878-1950). Sri Auroville is an experimental township in Puducherry, India. It was founded in 1968 by Mirra Alfassa, known as "The Mother", and designed by Pierre Jeanneret. Auroville is a universal town where men and women of all countries are able to live in peace and progressive harmony, free from fear and want. At its Annual Conference in 1964 and with Mirra Alfassa as its Executive President, the Sri Aurobindo Society in Pondicherry passed a resolution for the establishment of a city dedicated to the vision of Sri Aurobindo. Alfassa believed that this experimental "universal township" would contribute significantly to the progress of humanity towards a greater future. Bringing together people from all over the world, Alfassa also believed that such a universal township will contribute decisively to the Indian renaissance.



## AUROVILLE DOCUMENTATION

Wander	20°C
Time Required	1-2 hrs
Timing	Beach closes at 6:30pm
Entry Fee	Free

## GOA BEACH

The sparkling sand, beautiful palm trees and pristine waters are the very images that come to the mind at the very mention of Goa. In fact, the beaches are what Goa is known for because its 100+ miles of coastline are some of the most beautiful in the world. So, if you are planning to explore this beautiful region and pick up a beach of your liking. Once you are there, you can just sit back and relax, let the sun rays warm up your skin, let the wind and sun dry up your hair, furthermore, you are in Goa, it is the best time to throw your cares to the wind and enjoy in your heart's content. However, if you are of the adventurous kind you could go surfing or scuba diving.

There are many beautiful beaches scattered all over this world, but the joy and liveliness displayed by everything around you in Goa cannot be found anywhere else. So, if you are looking for a vacation spot, do not forget to join the celebration lesson in Goa everyday. You have to be celebrated with gusto, you are going to have a great time. Goa has many beautiful and exciting beaches to explore, which leaves no time visitor spot for choice. There are a number of crowded and popular beaches like the Calangute, Colva and the Anjuna beach. While, those who like to explore lesser known beaches can go to the Arambol beach or even the Bambolim beach. So, no matter what, Goa has something for everyone to enjoy and remember for a lifetime.

## PEACEFULL



### CANDOLIM AND CALAGUT BEACH

Among the most popular places for British tourists spending their holidays in Goa, Candolim and Calangute's long strips of golden sand and turquoise waters make a wonderful atmosphere, combining the sports, best discos, and the most delicious Goan cuisine in one of the eye-catching beach shacks.



### SINQUERIUM BEACH

Encapsulating the languid and relaxed ideology of Goa, stunning Sinquerium is a sedate but beautiful place to lay your head. The beach is dotted with a collection of beach shacks, dotted along a long curve of sand, backed by towering palm trees.



Gopalpur is a coastal town and a Notified Area Committee in Ganjam district in the southern part of Odisha, India. Total area is 10.5 km². It is a quiet beach and a tourist destination around 15 km from Berhampur. The port is an all weather port including new berths is under development.

Kovalam is an area of Trivandrum City in Kerala, India, located around 17 km south of the city center. It is situated in this area of Trivandrum City, Kovalam Beach, Maharanji Sethu Lakshmi Bay of Travancore. Here towards the end of the 1960s, Theravaram, a popular resort, was built by the European guests of the then Travancore kingdom. It became a tourist destination in the 1930s. However, in the 1960s, the hippie movement started with arrivals of the masses of hippies on their way to Ceylon in the Hippie Trail. This exodus started the transformation of a casual fishing village of Kerala into a prominent tourist destination in India.

## MARARI BEACH



### RISHIKONDA BEACH

The beach city of Andhra Pradesh, Visakhapatnam attracts tourists from all over the world. You can spend some relaxed moments amidst the pristine sandy beaches too. The beach is a popular destination for tourists and a beautiful place to explore. Popularly known as Vizag that attracts tourists as well as the locals here.



### PALolem BEACH

Palolem Beach is situated in Canacona in southern Goa, India. The beach is a 10 km stretch of white sand. It is a quiet beach and the winter season between November and March. It is considered to be one of the regions most beautiful beaches.

*It is better to listen to a place once in a lifetime than go and see it for yourself. Nobody gets happiness for a full life, that's why we should roam around beautiful places. Because in every beautiful journey we can spend small life.*

-SARA SARA



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**We Travel**

Home Mountain Adventure Beaches Pilgrimage

2 / 3

**लीर्व यात्रा**

एक लीर्व यात्रा एक यात्रा है, अमरात यह अवसर में जहाँ पहुँचने अनुचित के रूपमय से अपने साथ, दूसरों, प्रकृति से उत्कृष्ट अक्षर के बारे में नए या विस्तारित अध्ययन की तरफ चलता है। यह एक व्याकरण यात्रा जैसी जानकारी बन सकता है, जिसके बाद लीर्वयात्री अपने लोगों की जीवन में और आत्मा में बदलाव ले सकते हैं।

लीर्वयात्रा अमरात यह या आश्वासनक घटना की यात्रा में जाग आविष्ट होती है। अमरात एवं एक विशेषज्ञ विभागों और विभास के लिए एक लीर्व या अध्ययनपूर्ण यात्रा की यात्रा है, हालांकि कभी-कभी यह विभागों की अंतर्गत साध्यताओं में एक रूचक यात्रा ही सकती है।

अधिकारी द्वितीय लीर्वयात्रा के लोकताओं से पौराणिक घटनाओं से जुड़े हैं, लगभग काई भी ज्ञान यीज़ यात्रा के लिए एक लीर्व यात्रा है, लीर्विन उत्कृष्ट यात्राएँ जैसे लीर्व यात्रा अमरात या लीर्व यात्रा जैसी यात्राएँ अधिकारी द्वारा लीर्व यात्रा के लिए लीर्वयात्रा करने की अधिकारी द्वितीय यात्रा है, लीर्वाकि इस अध्ययन को विस्तृत अधिकारी नहीं यात्रा करता है।

**TUNGNATH**

Tungnath is one of the highest Shiva temples in the world and is the highest of the five Panch Kedar temples located in the mountain range of Tunganath in Rudraprayag district, in the Indian state of Uttarakhand. The Tunganath (literal meaning: Lord of the peaks) mountains form the Mandakini and Alakananda river valleys and the Tungnath is the third (Tritya Kedar) in the pecking order of the Panch Kedars. It has a rich legend linked to the Pandavas, heroes of the Mahabharata epic.

The priest at this temple is a local Brahmin from Makku village, unlike the other Kedar temples where the priests are from South India, a tradition set by the eighth century Hindu seer Sankaracharya. It is also said that the Maithani Brahmans officiate as priests at this temple. During the winter season, the temple is closed and the symbolic image of the deity and the temple priests are moved to Makkunmath, which is 29km from here. It is near Duggalibitha 10 km (6 mi) before Chopta towards Ukhimath.

Affiliation	Hinduism
District	Rudraprayag
Type	North Indian Architecture
Elevation	3,680m   12,073ft

**TUNGNATH DOCUMENTATION**

**GOLDEN TEMPLE**

The Gurdwara was built around a man-made pool (sarovar) that was completed by the fourth Sikh Guru, Guru Ram Das in 1577. Guru Arjan, the fifth Guru of Sikhism, requested Sri Mir Nian Mohan Ji, a Muslim Pir of Ajmer, its foundation stone in 1588. In 1604, Guru Arjan placed a copy of the Guru Granth in Harmandir Sahib during the sixth birthday (the "time of 68 pilgrimages"). The Gurdwara was repeatedly rebuilt by the Sikhs after it became a target of persecutions. It was finally rebuilt by the tenth Guru, Guru Gobind Singh, and Guru Nanak Dev Ji's son, Ranjit Singh after founding the Sikh Empire, rebuilt it in marble and copper in 1809, overlaid the entire structure with gold leaf and named it "Golden Temple". The Gurdwara is a unique structure as it is an open house of worship for all men and women, from all walks of life and faith. It has a square plan with four entrances, has a circumambulation path around the pool. Over 100,000 people visit the daily shrines and the Gurdwara. The Gurdwara complex has been nominated as a UNESCO World Heritage Site, and its application is pending on the tentative list of UNESCO.

<b>GOLDEN TEMPLE</b>	
Affiliation	Sikhism
State	Punjab
Groundbreaking	December 1581
Completed	1589 temple   1604 Adi Granth

**SPIRITUAL**

**KEDARNATH**

Kedarnath Mataji (temple) is a Hindu temple (shrine) dedicated to Lord Shiva. Mahadev is located on one of the Great Himalayan range in the Mandakini river. Kedarnath is located in the state of Uttarakhand, India. Due to extreme weather conditions, the temple is open to the general public only between the months of April (Akshaya Tritiya) and November (Kartik Purnima). During the winters, the vishra (deity) from Kedarnath temple is carried down to Ukhimath and where the deity is housed in a separate shrine called the Sharad Devi temple.

The priest at this temple is a local Brahmin from Makku village, unlike the other Kedar temples where the priests are from South India, a tradition set by the eighth century Hindu seer Sankaracharya. It is also said that the Maithani Brahmans officiate as priests at this temple. During the winter season, the temple is closed and the symbolic image of the deity and the temple priests are moved to Makkunmath, which is 29km from here. It is near Duggalibitha 10 km (6 mi) before Chopta towards Ukhimath.

Affiliation	Hinduism
State	Uttarakhand
Type	North Indian Architecture
Elevation	3,583m   11,755ft

**TUNGNATH DOCUMENTATION**

***It is better to listen to a place once in a lifetime than go and see it for yourself. Nobody gets happiness for a full life, that's why we should roam around beautiful places. Because in every beautiful journey we can spend small life.***

- अमर अमरेश

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## **OUTCOME:**

With the assistance of this web application project, I was able to adapt what I learned in class from the fundamentals of JavaScript to NodeJS.

During this time, I studied new techniques like get, post, routing, server, nodemon, and so on.

This project taught me to go deeper into the documentation and to investigate my problem to solve it and discover solutions.

**GitHub link:** <https://github.com/ayushamlesh/wetravel.git>