

# FPT ACADEMY INTERNATIONAL

## FPT – APTECH COMPUTER EDUCATION

# NATIONAL PARKS

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<b>Duration</b>	Start date	23th December 2023
	End date	23 <sup>th</sup> January 2024

**This is to certify that**

**Mr. :**

---

Nguyen Trang Thanh Vu, Son Phi Long, Le Tan Phat, Tran Que Nghi

**has successfully designed & developed**

eProject: National Parks website

**Submitted by:**

---

Nguyen Trang Thanh Vu

**Date of issue:**

**Authorized Signature:**

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## **ACKNOWLEDGMENT**

On behalf of team members. I would like to thank everyone who supported my team to successfully complete this eProject report. Especially, our teacher, she has supported us a lot since we started studying at FPT Aptech. With this eProject, she guided us very meticulously, enthusiastically and strictly. With her guidance, we were able to successfully complete this project. Besides, I also want to thank all the team members, each of whom worked hard to complete the eProject in earnest during the month of working together. Finally, our group would like to say thank you to my classmates and family for sharing and creating for the group the best environment to focus on the project, motivating the members to achieve their goals.

## **SYNOPSIS**

Web portal for National parks is a website which provides the people who are interested in visiting national parks and interested in wild animals can view this website to where they can get to know where the national park is situated and what all animals residing in that national park. Each national park may require a new record to store the information about that park which may also lead to so many records where finding it in set of national park records may be too difficult.

## **PROBLEM DEFINITION**

The Web site is to be created based on the following requirements.

1. The Home Page should be created making use of Sections with a suitable logo, the header section can be added which will show images of animals.
2. The site must contain the links to navigate through any category for the information.
3. The site should display a menu which will contain the options for brief introduction about the various national parks available, location and any other information if required.
4. The web site should also provide the option of Animal Info in that particular national park page where viewers can get the information of well known animals and birds residing in that particular national park.
5. Also have a Site Map option where viewers can see what all National Parks are there in our web site and can easily know where it is situated in the country. Their location should be displayed using GeoLocation API (eg. GoogleMaps)
6. A brief summary of a particular national park including list of animals/birds available, other facilities at national park should be displayed on the Web Page along with the picture but detailed Features should be stored in Individual Word documents which can be downloaded or viewed by the User who wishes to see the same.

## **CUSTOMER'S REQUIREMENTS SPECIFICATIONS (CRS)**

### **Project Objective:**

The Objective of this program is to create a web portal for users to search for information on many national parks. We use 3 Vietnamese national parks as examples for this web portal.

### **Input to the system:**

- Searching hints based on name.
- Images slider based on user's interact.
- User's information in contact form.
- Feedback about the quality of website and rating scale.
- Links to user's social networking sites.

### **Output from the system:**

- Searching results based on name.
- Images on slider.
- Pop up information based on user's interact.
- Location of each national park.
- The site should be able to provide a brief introduction about each national park: the park itself, local ecosystems.
- The location of the foundations on the Contact page.
- Displays Terms of Service and allows users to email directly to the foundations.

**Process:**

- Display pop up information based on user's interact.
- Display in slider based on user's interact.
- Filter content based on name searching.
- Display image information by view, and rating.
- Validate data input from user.
- Display user's location.

**Expected delivery date:** 23-January-2024.

**List of deliverables:**

- Document Word, PDF.
- User Guide.
- Source code.

**Hardware/ Software Requirements:**

♦ **For developer**

**Hardware**

- A minimum computer system that will help you access all the tools in the courses is a Pentium 166 or better.
- 64 Megabytes of RAM or better.

**Software [Either or Combination as per Course/Sem]**

- Notepad/HTML editor/CoffeeCup
- Angular / Angular JS / React / BootStrap
- Dreamweaver / Figma
- MS IE / Chrome / FireFox / Netscape /MS Edge

♦ **For web users**

**Hardware**

- A minimum computer system that will help you access all the tools in the courses is a Pentium 166 or better.
- 64 Megabytes of RAM or better.

**Software [Either or Combination as per Course/Sem]**

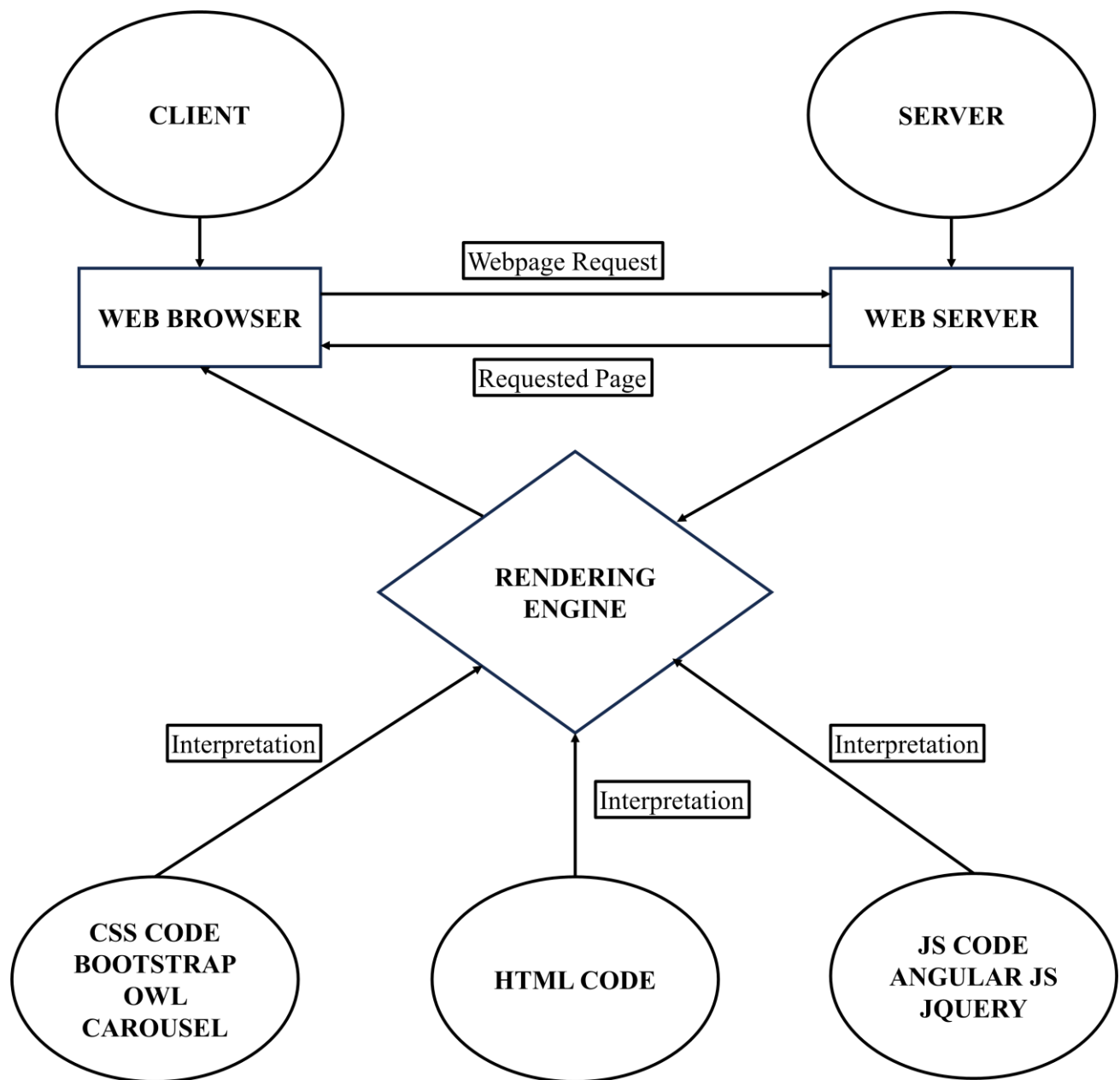
- Notepad/HTML editor/CoffeeCup
- Angular / Angular JS / React / BootStrap
- Dreamweaver / Figma
- MS IE / Chrome / FireFox / Netscape /MS Edge

## SCOPE OF THE WORK (IN BRIEF)

After a long and detailed discussion, our group has decided to create a website contain the following webpages:

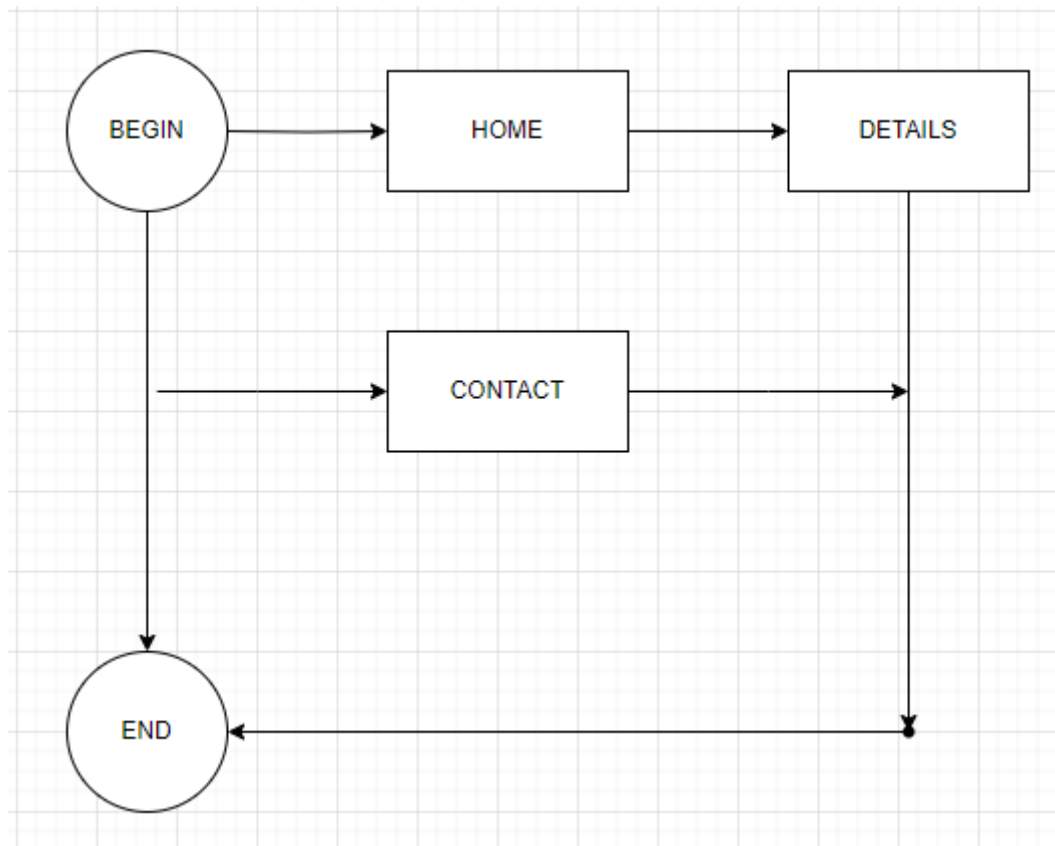
1. **Homepage:** Displays sets of national parks. User can select a park, the page will show illustrations and link for more details.
2. **Details:** Display detailed information about a park with animals residing there and the park's address. User can rate and add comments for the park.
3. **About:** Display detailed information about the foundations with product,service introduction and address in Google map, also allow customers to message any information they want.

## ARCHITECTURE AND DESIGN OF THE SYSTEM



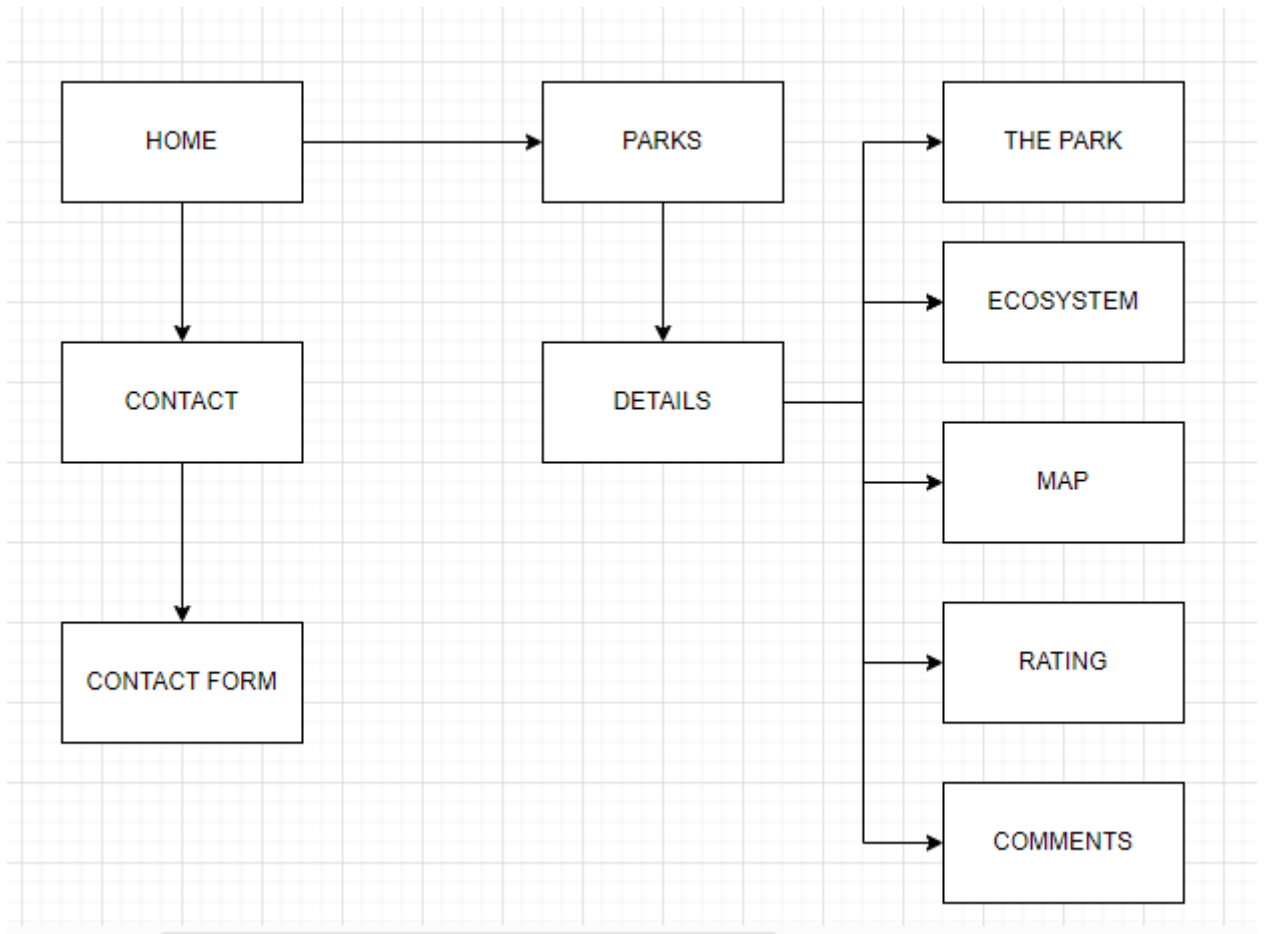


## DIAGRAM OF THE WEBSITE





# SITE MAP



# MOCK OF THE WEB SITE

## 1. HOME

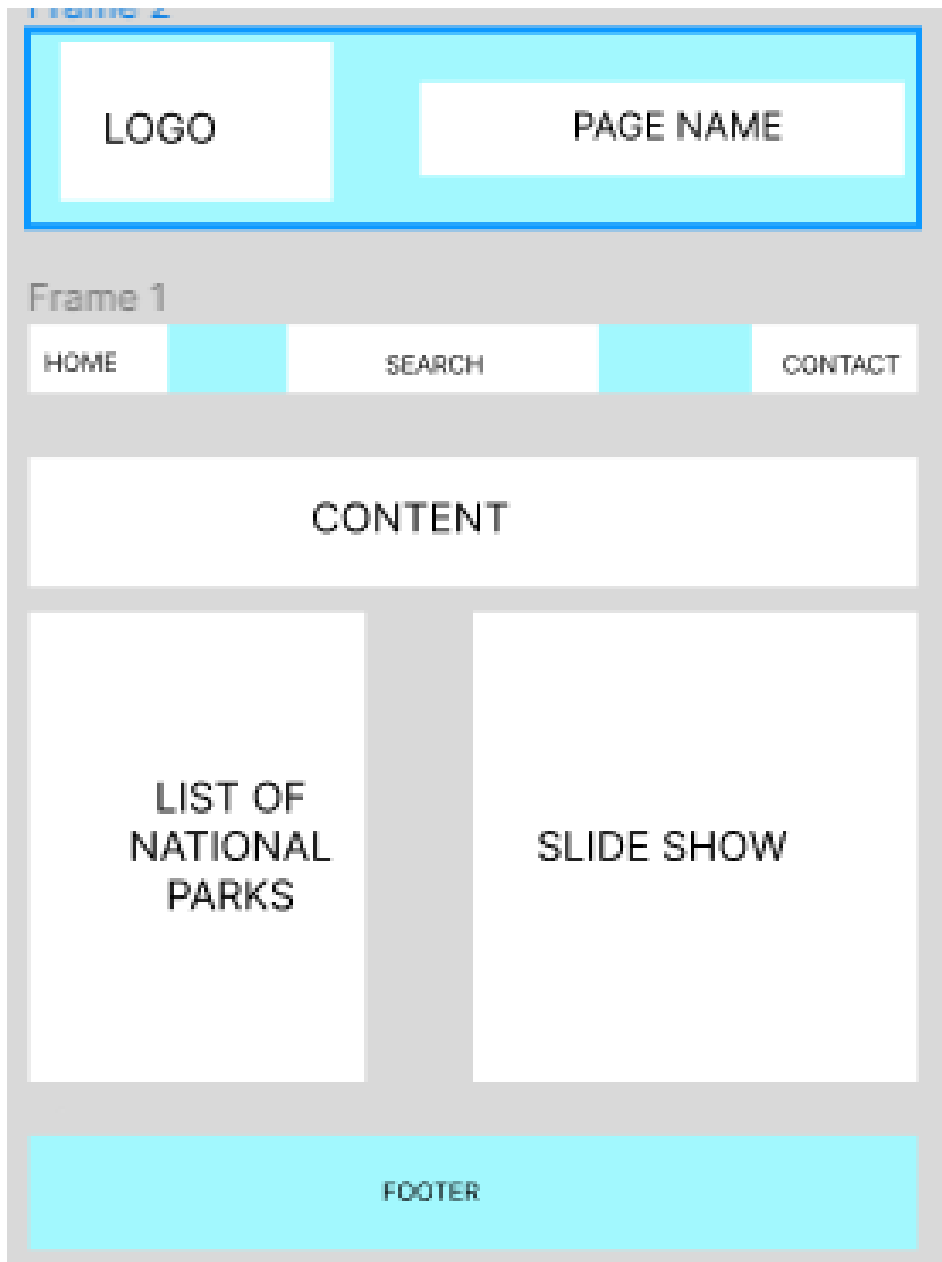
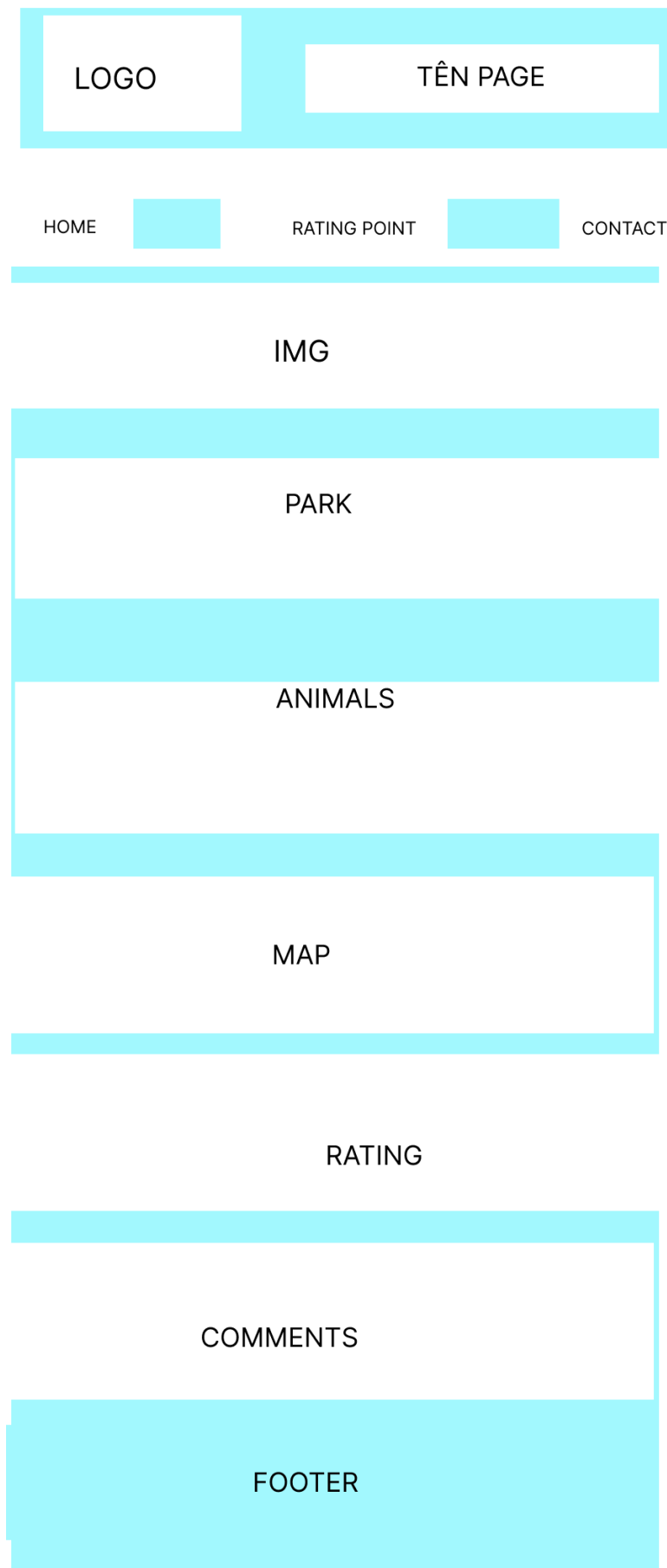


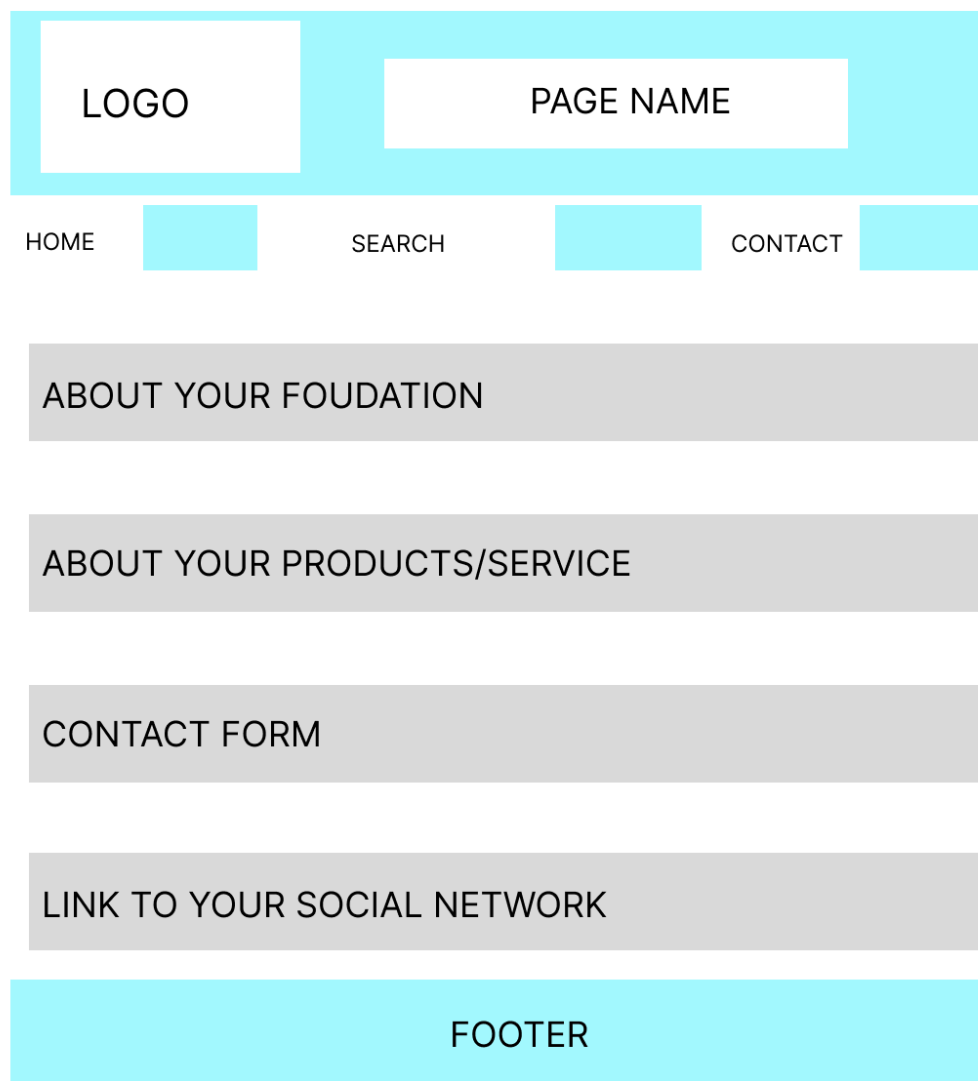
Figure 1: Homepage

## 2. DETAILS



**Figure 3: Details page**

### 3. Contact



**Figure 4: Contact page**

# TASK SHEET REVIEW 2

Project Ref. No.:  eP/Advertisement Portal Management System/01		Project Title:	Activity Plan Prepared By:	Date of Preparation of Activity Plan:			
Sr. No.	Task			Actual Start Date	Actual Days	Team Mate Names	Status
1	Site Map	National Parks	Vu	26-Dec-23	1	Vu	Completed
2	Mock of the website			26-Dec-23	7	Long,Phat, Nghi	Completed
3	Task sheet			26-Dec-23	1	Vu	Completed

<b>Date:</b>	
Signature of Instructor:	Signature of Team Leader:
<b>Ms. Le Mong Thuy</b>	<b>Nguyen Trang Thanh Vu</b>

# WEBSITE DESCRIPTION

## 1. Homepage

### a) Description

Home page displays following information:

- On the left is the list of national parks.
- On the right are slideshows with link to details page for the park that user selects.

### b) Screen shot

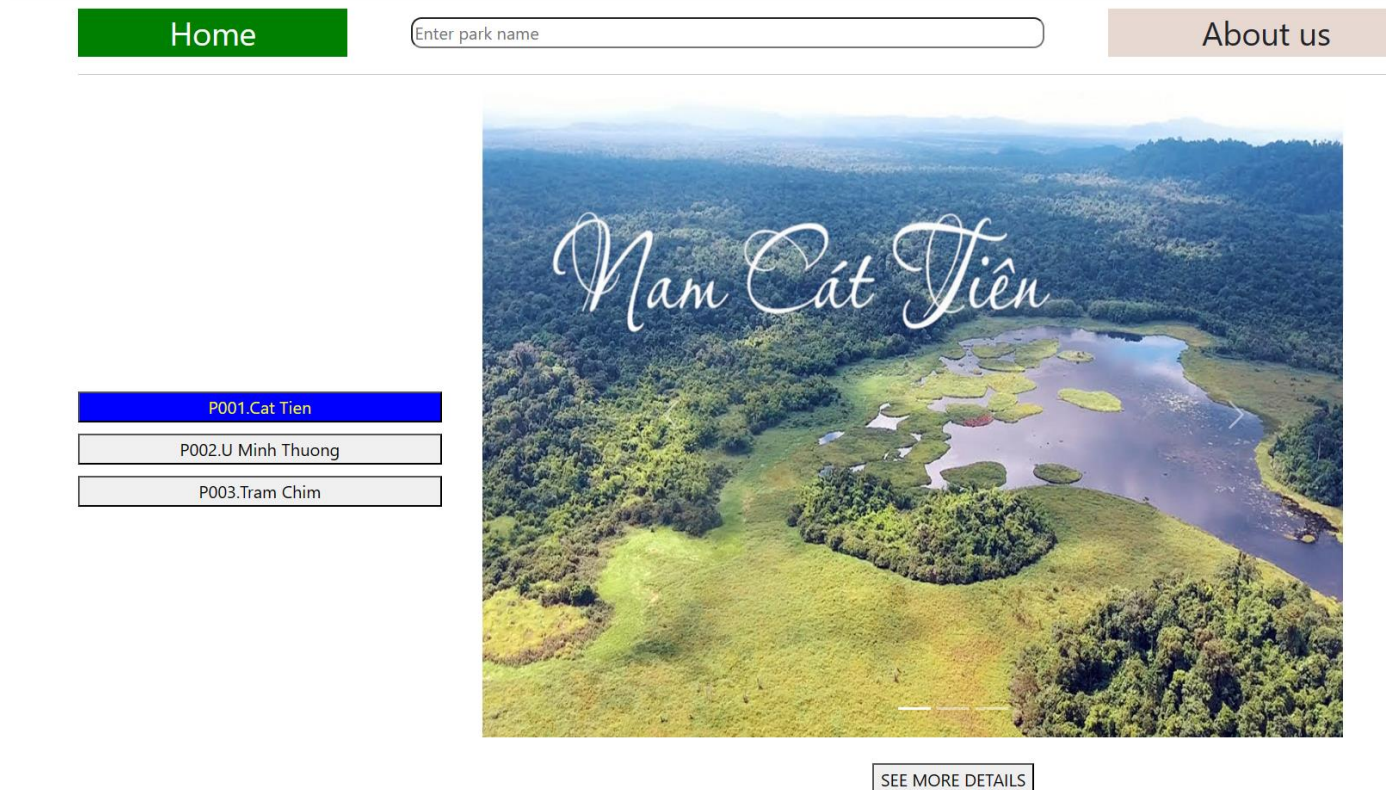


Figure 5: Home

## 2. Details page

### a) Description

This calligraphy page displays following information:

- Detailed description of the park include: Intro park, famous landmarks, resident animals, local activities, contact information of park.
- Display google maps.

### b) Screen shot



## Cat Tien



Cat Tien Park is a nature reserve located in Tan Phu District, Dong Nai Province, Vietnam. The park covers an area of 71,920 hectares, including rainforests, forests, floodplain, and on. And there are rich, diverse fauna and flora. The Cat Tien Park was designated a UNESCO Biosphere Reserve in 1998. It is home to over 1,500 species of plants and 1,000 species of animals, many of which are rare. In addition to this, Cat Tien Park is home to many other animals, such as bison, buffalo, boar, bear, leopard, snake, and others.

## Famous landmarks



Bau Sau is a wetland located in the south of Cat Tien National Park, and is home to the freshwater crocodile (Siamese crocodile), a Vietnamese crocodile species that was previously thought to be extinct.

## Resident animals



Indochinese tigers are rare, endangered tigers. Indochinese tigers often live in tropical rainforests, hunting small animals such as deer, deer, and so on.

## Local activities



To visit by canoe: It is the most popular way to visit in Cat Tien Park. Visitors would be allowed to sit on their canoes, slip through the canals, tap the waterways, watch the lotus fields, the forests, and observe the wildlife.

Address: Village 1, Phuoc Cat commune, Tan Phu district, Dong Nai province

Telephone: (+ 84) 2513 669 228

Website: <https://Cattiennationalpark.com.vn/>

Visitors can move to the Cat Tien Park by a variety of means, including:

Motor vehicles: Visitors can take a motorbike along national Route 20, get to an oil second junction, then turn left on National Highway 24, arrive at Tan Phu town, then continue on towards 20 highway, and arrive at Cat Tien Park. Coach: Visitors can take a bus from the East Station in Ho Chi Minh City to Tan Phu. Later, from Tan Phu, tourists take taxi to Cat Tien Park. Bus: Visitors can take bus No. 80 from Ho Chi Minh City's western bus terminal to Cao Lanh City. Later, tourists take a taxi to The Cat Tien Park.

When visiting Cat Tien Park, visitors need to purchase admission tickets for 20,000vnd per person. In addition, visitors can rent a cruise boat for 200,000vnd an hour.



**Figure 6: Details**



### 3. Forum page:

#### a) Description

The forum page displays form comment that users can refer to, leaving access information, and personal feelings about the park.

#### b) Screen shot

The screenshot shows a web interface with three navigation tabs: "Home", "FORUM" (highlighted in green), and "About us". Below the tabs is a comment form with fields for Name, Email, Phone, Title, and Comment. The form is filled with the following data: Name: Tran Que Nghi, Email: nghitran0367@gmail.com, Phone: 0367182724, Title: (empty), and Comment: Great!. A blue "submit" button is located below the comment field. Below the form is a list of comments, showing the name "Tran Que Nghi:" and the comment "Great!". At the bottom of the list is a button labeled "Clear the comments and rating".

Figure 7: Forum

### 4. Contact page

#### a) Description

This Contact page displays following information:

- Display contact information: location, telephone number, email, and a quick contact form for viewers.
- Display google maps and directions for viewers.

#### b) Screen shot

##### Contact Info:

*We look forward to hearing from you. Do not hesitate to contact if you have any question, proposal, or support.*

Below is our contact information:

**Address:** [590 CMT8, Ward 11, District 10, Ho Chi Minh City]

**Email:** [mailto:abc@gmail.com](mailto:mailto:abc@gmail.com)

**Tele:** (+84) 123 456 789



##### Contact Form:

If you would like to share your opinion, contribute or have any requests, please use the form below. We will respond to you as soon as possible.

The screenshot shows a contact form with fields for Name, Email, Phone, Title, and Comment. The form is filled with the following data: Name: Enter your name, Email: Enter email address, Phone: Enter phone number, Title: (empty), and Comment: Write your message. A blue "submit" button is located below the comment field.

Figure 8: Contact

## 5. About page

### a) Description

This Contact page displays following information:

- Display welcome to Vie Park.
- Display goal, our work and sincerely thank you.
- Showing group members.

### b) Screen shot

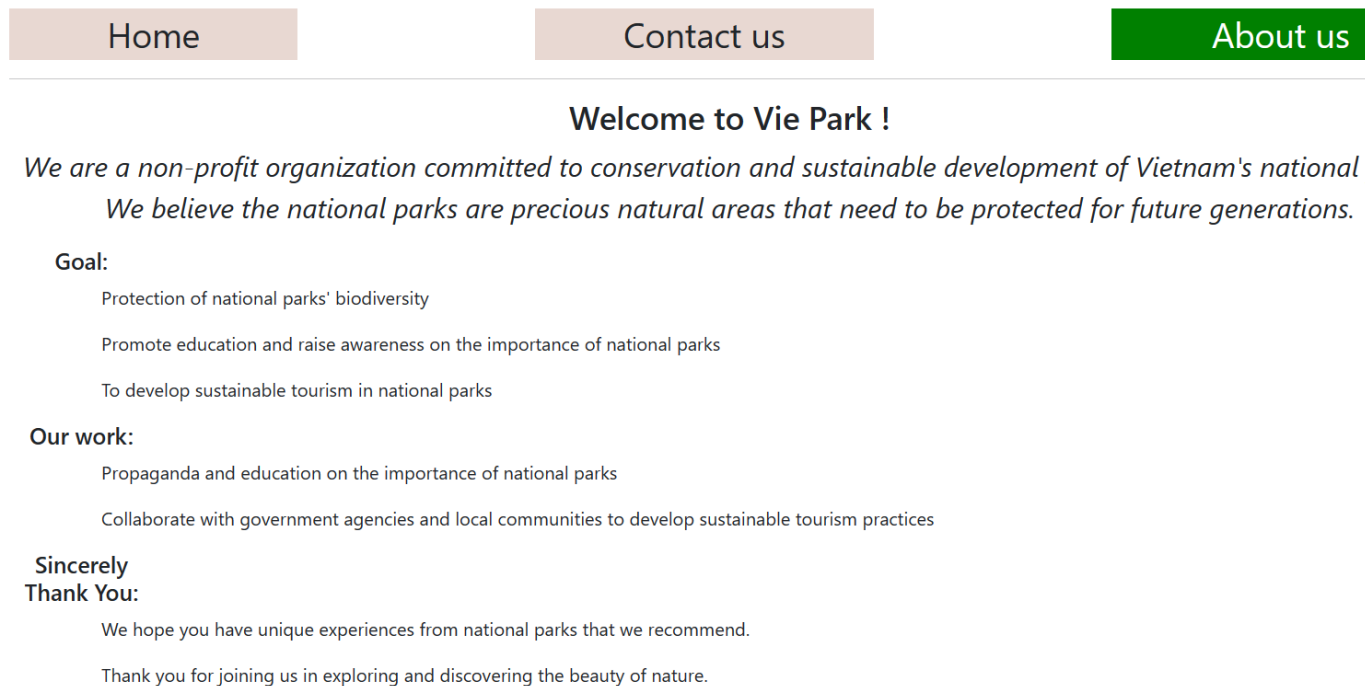


Figure 9: About

# REACTJS DESCRIPTION

## 1. Search by name

### a) Description

- This script is used to search the parks by name

### b) Screen shot

```
import React, { useState } from "react";
import { useNavigate } from "react-router-dom";

function Parks({db}){
  const [viewPark,setViewPark]=useState("");
  const [lockedOnPark,setLockedOnPark]=useState("");
  const nav=useNavigate();
  return(
    <div>
      <nav className="topnav">
        <span onClick={ (e)=>{e.preventDefault();nav('/')}}>Home</span>
        <input type="text" id="search" name="search" placeholder="Enter park name"
          style={{position:"absolute",left:"28.5%}}
          onChange={ (e)=>setViewPark(e.target.value.toLowerCase())}/>
        <span style={{position:"absolute",right:"7.5%}}
          onClick={ (e)=>{e.preventDefault();nav('/contact')}}>Contact us</span>
      </nav>
      /*NỘI DUNG <div style={{paddingTop:"50px",paddingBottom:"50px"}}></div> */
      <div style={{display:"flex",alignItems:"center"}}>
        <div style={{width:"30%",textAlign:"left",objectFit:"cover"}}>
          {
            db.filter((x)=>{
              return (viewPark===""?x:x.name.toLowerCase().includes(viewPark))
            }).map(x=>{
              <div style={{paddingTop:10}}>
                <button type="button" onClick={ (e)=>setLockedOnPark(e,x.id)}
                  style={{width:"90%}}>{x.id}. {x.name}</button></div>
              )
            )
          }
        </div>
      </div>
    </div>
  )
}
```

Figure 10: search

## 2. Carousel

### a) Description

- The carousel displays images to demonstrate for the identified park.

### b) Screen shot

```
import React from "react";
import data from '../sceneries.json';

function Intro({park}){
  const sceneries=data.filter(x=>x.park===park);
  return(
    <div id="demo" className="carousel slide" data-bs-ride="carousel"
    style={{width:"100%",textAlign:"center"}}>
      <div className="carousel-indicators">
        {
          sceneries.map(x=>(x.stt===1)?
            (<button type="button" data-bs-target="#demo" data-bs-slide-
to="0" className="active"></button>)
            :(<button type="button" data-bs-target="#demo" data-bs-
slide-to={x.stt-1}></button>)
          )
        }
      </div>
      <div className="carousel-inner">
        {
          sceneries.map(x=>(x.stt===1)?
            (
              (x.image)?(
                <div className="carousel-item active">
                  <img
src={require(`../images/${park}/${x.image}`)} alt={x.name}
                  className="d-block" style={{width:"100%"}}/>
                </div>
              )
            )
          )
        }
      </div>
    </div>
  );
}
```

```

import React from "react";
import data from '../sceneries.json';

function Intro({park}){
  const sceneries=data.filter(x=>x.park===park);
  return(
    <div id="demo" className="carousel slide" data-bs-ride="carousel"
      style={{width:"100%",textAlign:"center"}}>
      <div className="carousel-indicators">
        {
          sceneries.map(x=>(x.stt===1)?
            (<button type="button" data-bs-target="#demo" data-bs-slide-to="0" className="active"></button>)
            :(<button type="button" data-bs-target="#demo" data-bs-slide-to={x.stt-1}></button>))
        }
      </div>
      <div className="carousel-inner">
        {
          sceneries.map(x=>(x.stt===1)?
            (
              (x.image)?(
                <div className="carousel-item active">
                  <img src={require(`../images/${park}/${x.image}`)} alt={x.name}
                    className="d-block" style={{width:"100%}}/>
                </div>
              )
              :(
                <div className="carousel-item active">
                  <img src={require("../images/notFound.png")} alt="notFound"
                    className="d-block" style={{width:"100%}}/>
                </div>
              )
            )
            :(
              (x.image)?(
                <div className="carousel-item">
                  <img src={require(`../images/${park}/${x.image}`)} alt={x.name}
                    className="d-block" style={{width:"100%}}/>
                </div>
              )
              :(
                <div className="carousel-item">
                  <img src={require("../images/notFound.png")} alt="notFound"
                    className="d-block" style={{width:"100%}}/>
                </div>
              )
            )
          )
        }
      </div>
      <button className="carousel-control-prev" type="button" data-bs-target="#demo" data-bs-slide="prev" style={{width:
        <span className="carousel-control-prev-icon"></span>
      </button>
      <button className="carousel-control-next" type="button" data-bs-target="#demo" data-bs-slide="next" style={{width:
        <span className="carousel-control-next-icon"></span>
      </button>
    </div>
  )
}

export default Intro;

```

Figure 11: Carousel

### 3. Comments

#### a) Description

- This script is used to show feedbacks from users.

#### b) Screen shot



```

let forum=[];
for (let index = 1; index <= localStorage.getItem(`${id}_count`); index++) {
  forum.push(<div class="comment">
    <p>${localStorage.getItem(`${id}_name${index}`)}: ${localStorage.getItem(`${id}_title${index}`)}</p><p>${localStorage.getItem(`${id}_message${index}`)}</p>
  </div>);
}
const [name,setName]=useState("");
const [mail,setMail]=useState("");
const [phone,setPhone]=useState("");
const [title,setTitle]=useState("");
const [message,setMessage]=useState("");
const validmail=new RegExp('^[A-Za-z0-9.%+-]{3,}@[a-z-0-9]{2,6}\.[a-z]{2,4}$');
const validphone=new RegExp('^([0-9]{1,3}[ ]?){0,3}([0-9]{0,4})$');
const handleSubmit=(e)=>{
  e.preventDefault();
  if(name.length===0){
    alert("Name is required. Please enter!");
    document.getElementById("name").focus();
    return;
  }
  if(!mail.match(validmail)){
    alert("Invalid email address. Please re-enter!");
    document.getElementById("mail").focus();
    return;
  }
  if(!phone.match(validphone)){
    alert("Invalid phone number. Please re-enter!");
    document.getElementById("phone").focus();
    return;
  }
  if(message.length===0){
    alert("Message is required. Please finish your message!");
    document.getElementById("message").focus();
    return;
  }

```

```

}
if(localStorage.getItem(`${id}_count`)) localStorage.setItem(`${id}_count`,parseInt(localStorage.getItem(`${id}_count`))+1);
else localStorage.setItem(`${id}_count`,1);
localStorage.setItem(`${id}_name${localStorage.getItem(`${id}_count`)}`,name);
localStorage.setItem(`${id}_mail${localStorage.getItem(`${id}_count`)}`,mail);
localStorage.setItem(`${id}_phone${localStorage.getItem(`${id}_count`)}`,phone);
localStorage.setItem(`${id}_title${localStorage.getItem(`${id}_count`)}`,title);
localStorage.setItem(`${id}_message${localStorage.getItem(`${id}_count`)}`,message);
document.getElementById("comments").innerHTML+=<div class="comment">
  <p>${name}: ${title}</p><p>${message}</p></div><br>`;
}

```

```

<form onSubmit={e=>handleSubmit(e)}>
  <table>
    <tbody>
      <tr>
        <td><label>Name</label></td>
        <td><input type="text" id="name" value={name} placeholder="Enter your name"
          onChange={e=>setName(e.target.value)}/></td>
      </tr>
      <tr>
        <td><label>Email</label></td>
        <td><input type="email" id="mail" value={mail} placeholder="Enter email address"
          onChange={e=>setMail(e.target.value)}/></td>
      </tr>
      <tr>
        <td><label>Phone</label></td>
        <td><input type="tel" id="phone" value={phone} placeholder="Enter phone number"
          onChange={e=>setPhone(e.target.value)}/></td>
      </tr>
      <tr>
        <td><label>Title</label></td>
        <td><input type="text" id="title" value={title}
          onChange={e=>setTitle(e.target.value)}/></td>
      </tr>
      <tr>
        <td><label>Comment</label></td>
        <td><textarea id="message" value={message} placeholder="Write your comment"
          onChange={e=>setMessage(e.target.value)}/></td>
      </tr>
    </tbody>
  </table>
  <button type="submit" className="btn btn-primary">submit</button>
</form>

```

```
<div id="comments">
  {
    forum.map(x=>(
      <div dangerouslySetInnerHTML={{__html:x}}></div>
    ))
  }
</div>
<button type="button" onClick={e=>{
  e.preventDefault();
  localStorage.clear();
  document.getElementById("comments").innerHTML="";
}}>Clear the comments and rating</button>
```

Figure 12: Comments

#### 4. Contact Form

##### a) Description

- This script is used to check and take information from users.

##### b) Screen shot

```
const [name, setName]=useState("");
const [mail, setMail]=useState("");
const [phone, setPhone]=useState("");
const [title, setTitle]=useState("");
const [message, setMessage]=useState("");
const validmail=new RegExp('^([A-Za-z0-9._%+-]{3,})@[a-z-0-9]{2,6}.[a-z]{2,4}$');
const validphone=new RegExp('^([0-9]{1,3}[ ]{0,}){0-9]{0,3}[ ]{0,}){0-9]{0,4}$');
const handleSubmit=(e)=>{
  e.preventDefault();
  if(name.length===0){
    alert("Name is required. Please enter!");
    document.getElementById("name").focus();
    return;
  }
  if(!mail.match(validmail)){
    alert("Invalid email address. Please re-enter!");
    document.getElementById("mail").focus();
    return;
  }
  if(!phone.match(validphone)){
    alert("Invalid phone number. Please re-enter!");
    document.getElementById("phone").focus();
    return;
  }
  if(message.length===0){
    alert("Message is required. Please finish your message!");
    document.getElementById("message").focus();
    return;
  }
  alert("MESSAGE SENT");
  nav('/');
}
const nav=useNavigate();
```

```
<form onSubmit={e=>handleSubmit(e)}>
  <table>
    <tr>
      <td><label>Name</label></td>
      <td><input type="text" id="name" value={name} placeholder="Enter your name"
        onChange={e=>setName(e.target.value)}/></td>
    </tr>
    <tr>
      <td><label>Email</label></td>
      <td><input type="email" id="mail" value={mail} placeholder="Enter email address"
        onChange={e=>setMail(e.target.value)}/></td>
    </tr>
    <tr>
      <td><label>Phone</label></td>
      <td><input type="tel" id="phone" value={phone} placeholder="Enter phone number"
        onChange={e=>setPhone(e.target.value)}/></td>
    </tr>
    <tr>
      <td><label>Title</label></td>
      <td><input type="text" id="title" value={title}
        onChange={e=>setTitle(e.target.value)}/></td>
    </tr>
    <tr>
      <td><label>Comment</label></td>
      <td><textarea id="message" value={message} placeholder="Write your message"
        onChange={e=>setMessage(e.target.value)}/></td>
    </tr>
  </table>
  <button type="submit" className="btn btn-primary">submit</button>
</form>
```

Figure 13: Contact Form

## TASK SHEET REVIEW 3

Project Ref. No.:  eP/Advertisement Portal Management System/01		Project Title:	Activity Plan Prepared By:	Date of Preparation of Activity Plan:			
Sr. No.	Task			Actual Start Date	Actual Days	Team Mate Names	Status
1	Home	National Parks		28-Dec-23	3	Vu	Completed
2	Detail			1-Jan-24	7	Vu	Completed
3	Forum			22-Jan-24	1	Vu	Completed
4	About			8-Jan-24	1	Long,Nghi ,Phat	Completed
5	Contact			9-Jan-24	2	All team	Completed
6	Document			28-Dec-23	7	Long,Nghi ,Phat	Completed
7	Images			28-Dec-23	7	Long,Nghi ,Phat	Completed
8	Add functions+fix errors			9-Jan-24	7	Vu	Completed
9	CSS+Styles			16-Jan-24	6	Long,Nghi ,Phat	Completed
10	Video			28-Dec-23	1	All team	Completed
11	Report			22-Jan-24	1	All team	Completed

**Date:**

Signature of Instructor:

**Ms. Le Mong Thuy**

Signature of Team Leader:

**Nguyen Trang Thanh Vu**