

FPT ACADEMY INTERNATIONAL FPT – APTECH COMPUTER EDUCATION

NATIONAL PARKS

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Duration Start date 23th December 2023

End date 23th January 2024

	certify that
Mr.:	
	Nguyen Trang Thanh Vu, Son Phi Long, Le Tan Phat, Tran Que Nghi
as succe	ssfully designed & developed
	eProject: National Parks website
Submitta	d by
Submitte	
	Nguyen Trang Thanh Vu
Date of is	sue:
Authoriz	ed Signature:

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ACKNOWLEGMENT

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.

SYNOSIS

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

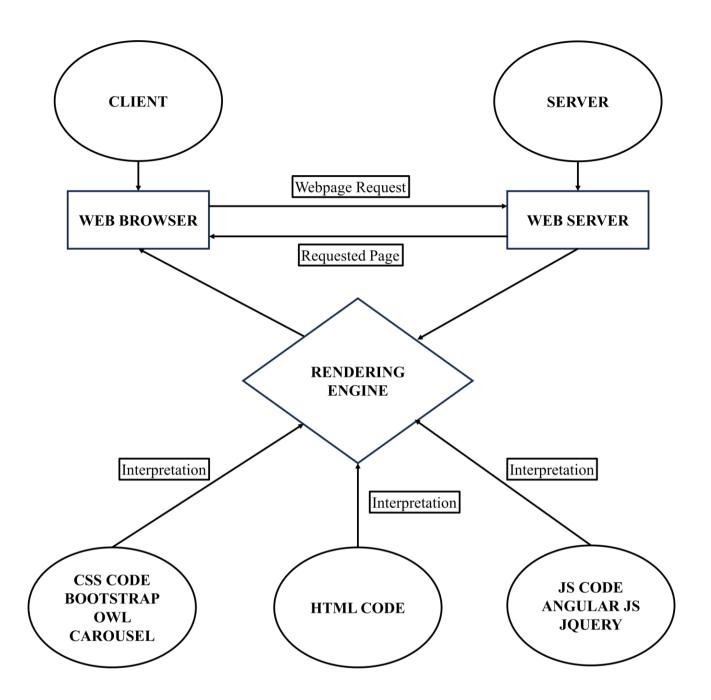
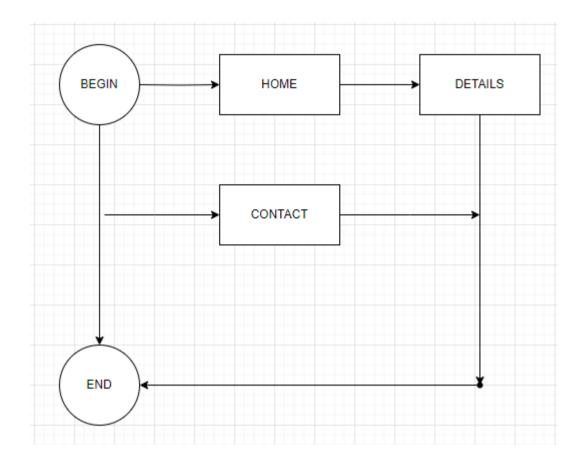


DIAGRAM OF THE WEBSITE

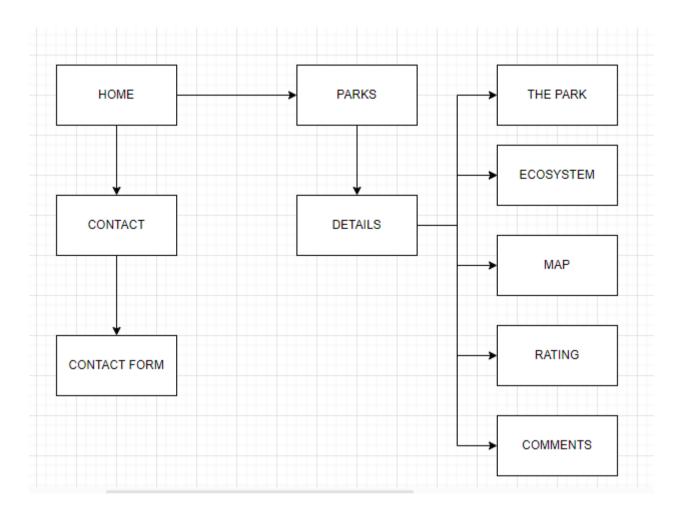


TASK SHEET REVIEW 1

	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	Problem Statement			23-Dec-23	1	Vu	Completed
2	Analysis of National Parks requirements about the website	National Parks		23-Dec-23	1	Vu	Completed
3	The scope of the work (in brief)		Vu	23-Dec-23	1	Vu	Completed
4	Architecture and design of the system			23-Dec-23	1	Long,Phat, Nghi	Completed
5	Diagram of the website			23-Dec-23	1	Long,Phat Nghi	Completed
6	Task Sheet			23-Dec-23	1	Vu	Completed

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

SITE MAP



MOCK OF THE WEB SITE

1. HOME

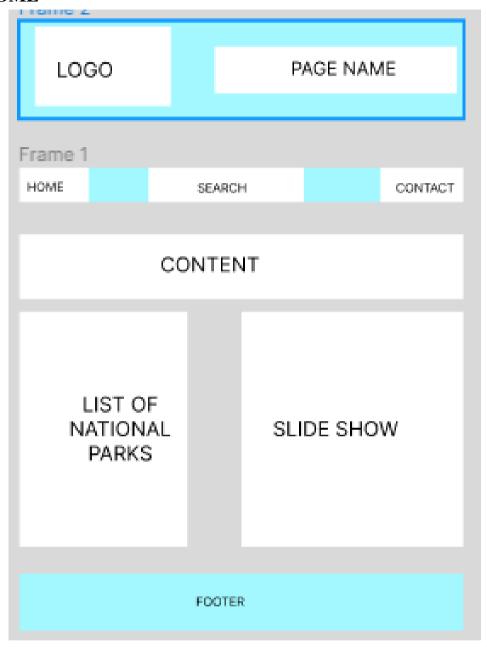


Figure 1: Homepage

2. DETAILS

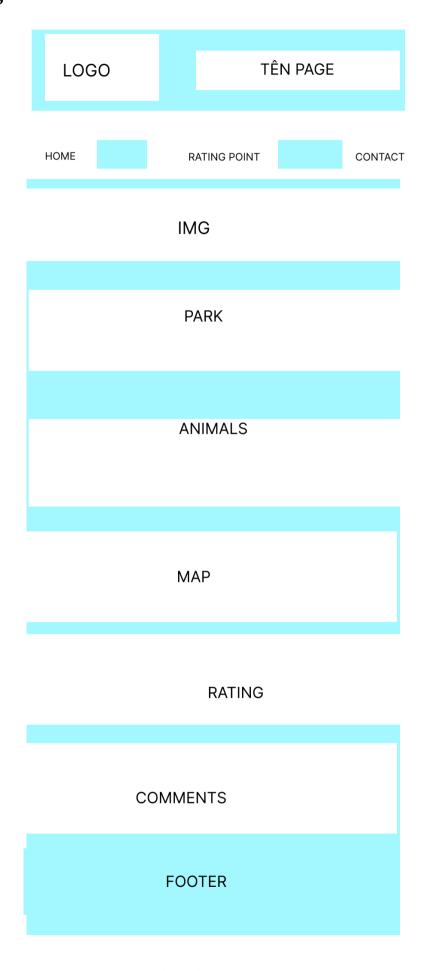


Figure 3: Details page

3. Contact

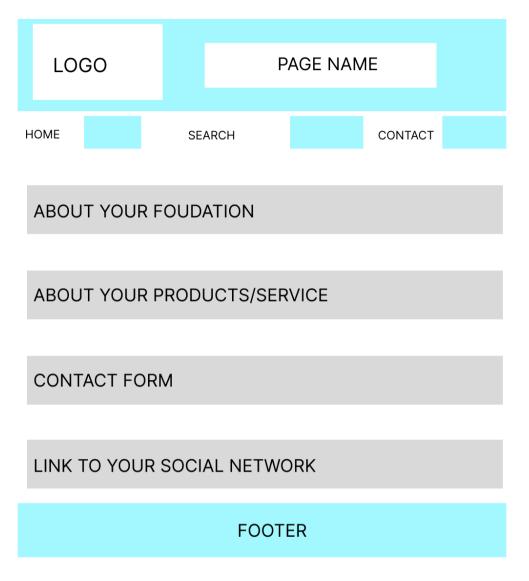


Figure 4: Contact page

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	s 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	

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

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

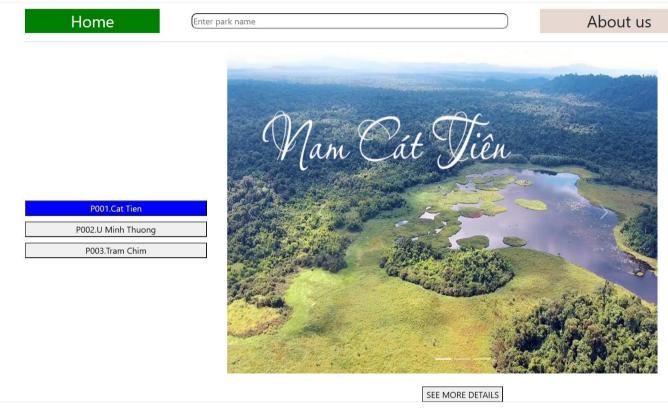


Figure 5: Home

2. Details page

a) Description

This calligraphy page displays following information:

- Display rating star.
- Detailed description of the park include: Intro park, famous landmarks, resident animals, local activities, contact information of park, form comment and rating star that users can refer to, leaving access information, and personal feelings about the park and sending us reviews of posts through stellar ratings.
- Display google maps.
- b) Screen shot

Home ☆ ☆ ☆ ☆ ☆ About us

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, a so 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

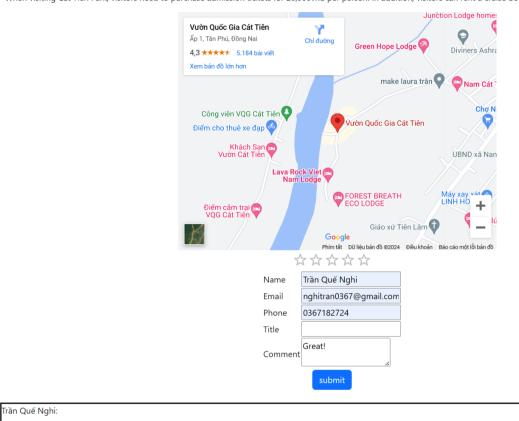
Telephone: (+ 84) 2513 669 228

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 continu 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.



Clear the comments and rating

Figure 6: Details

© Copyright Dec2023-Jan2024 Vie Park

3. 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:



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.



Figure 7: Contact

4. 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

Home Contact us About us

Welcome to Vie Park!

We are a non-profit organization committed to conservation and sustainable development of Vietnam's national We believe the national parks are precious natural areas that need to be protected for future generations.

Goal:

Protection of national parks' biodiversity

Promote education and raise awareness on the importance of national parks

To develop sustainable tourism in national parks

Our work:

Propaganda and education on the importance of national parks

Collaborate with government agencies and local communities to develop sustainable tourism practices

Sincerely

Thank You:

We hope you have unique experiences from national parks that we recommend.

Thank you for joining us in exploring and discovering the beauty of nature.

Figure 7: 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";
♣port { useNavigate } from "react-router-dom";
function Parks({db}){
   const [viewPark,setViewPark]=useState("");
   const [lockedOnPark, setLockedOnPark] = useState("");
   const nav=useNavigate();
    return(
            <nav className="topnav">
                <span onClick={(e)=>{e.preventDefault();nav('/')}}>Home</span>
                <input type="text" id="search" name="search" placeholder="Enter park name"</pre>
                    style={{position:"absolute",left:"28.5%"}}
                    onChange={(e)=>setViewPark(e.target.value.toLowerCase())}/>
                <span style={{position:"absolute",right:"7.5%"}}</pre>
                    onClick={(e)=>{e.preventDefault();nav('/contact')}}>Contact us</span>
            <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>
                        ))
```

Figure 8: 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);
        <div id="demo" className="carousel slide" data-bs-ride="carousel"</pre>
        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 className="carousel-inner">
                    sceneries.map(x=>(x.stt===1)?
                         (x.image)?(
                            <div className="carousel-item active">
src={require(`../images/${park}/${x.image}`)} alt={x.name}
                                className="d-block" style={ {width:"100%"} } />
```

```
import data from '../sceneries.json';
  function Intro({park}){
      const sceneries=data.filter(x=>x.park===park);
           <div id="demo" className="carousel slide" data-bs-ride="carousel"</pre>
               <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 className="carousel-inner">
                         sceneries.map(x=>(x.stt===1)?
                             (x.image)?(
                                  <div className="carousel-item active">
                                      \label{localization} $$ \sc={require(`../images/${park}/${x.image}^`)} $$ alt={x.name} $$ className="d-block" style={{width:"100%"}}/> $$
                                  <div className="carousel-item active">
                                      <img src={require(".../images/notFound.png")} alt="notFound"
className="d-block" style={{width:"100%"}}/>
                             (x.image)?(
                                  <div className="carousel-item">
                                      <img src={require(`../images/${park}/${x.image}`)} alt={x.name}
className="d-block" style={{width:"100%"}}/>
                                  <div className="carousel-item">
                                      <img src={require("../images/notFound.png")} alt="notFound"
className="d-block" style={{width:"100%"}}/>
              <button className="carousel-control-prev" type="button" data-bs-target="#demo" data-bs-slide="prev" style={{width:</pre>
                   <span className="carousel-control-prev-icon"></span>
              <button className="carousel-control-next" type="button" data-bs-target="#demo" data-bs-slide="next" style={{width:</pre>
                   <span className="carousel-control-next-icon"></span>
export default Intro;
```

Figure 9: Carousel

3. Rating Count

- a) Description
 - This script is used to take response from user to count the rating for the park.
- b) Screen shot

Run one of the following commands to add Material UI to your project:

```
npm
              varn
                     pnpm
      npm install @mui/material @emotion/react @emotion/styled
     import { Rating } from "@mui/material";
       const [yourRate, setYourRate] = useState(0);
       const nav=useNavigate();
       const ratingChange=(rate)=>{
            setYourRate(rate);
           if(localStorage.getItem(`${id} rating`)){
           let rating=parseFloat(localStorage.getItem(`${id}_rating`));
               let rates=parseInt(localStorage.getItem(`${id}_rates`));
               localStorage.setItem(`${id}_rating`,((rating*rates+rate)/(rates+1)));
               localStorage.setItem(`${id}_rates`,rates+1);
               localStorage.setItem(`${id}_rating`,rate);
               localStorage.setItem(`${id} rates`,1);
<nav className="topnav">
    <span onClick={(e)=>{e.preventDefault();nav('/')}}>Home</span>
    <Rating value={parseFloat(localStorage.getItem(`${id} rating`))} precision={0.2}</pre>
        style={{position:"absolute",left:"40%"}} isHalf={true} readOnly/>
    <span style={{position:"absolute",right:"7.5%" }}</pre>
        onClick={(e)=>{e.preventDefault();nav('/about')}}>About us</span>
</nav>
<Rating value={yourRate}
     onChange={(e,newRate)=>{e.preventDefault();ratingChange(newRate)}}
    />
```

Figure 10: Rating

4. Comments

- a) Description
 - This script is used to show feedbacks with likes and dislikes from users.

b) Screen shot

```
let forum=[];
for (let index = 1; index <= localStorage.getItem(`${id}_count`); index++) {</pre>
     forum.push(`<div class="comm
     ${localStorage.getItem(`${id} name${index}`)}: ${localStorage.getItem(`${id} title${index}`)}${localStorage.getItem(`${id} message${index}`)}
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();
     if(!mail.match(validmail)){
         alert("Invalid email address. Please re-enter!");
document.getElementById("mail").focus();
     if(!phone.match(validphone)){
    alert("Invalid phone number. Please re-enter!");
         document.getElementById("phone").focus();
     if(message.length===0){
         document.getElementById("message").focus();
       if(localStorage.getItem(`${id}_count`)) localStorage.setItem(`${id}_count`,parseInt(localStorage.getItem(`${id}_count`)
       else localStorage.setItem(`${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">
```

\${name}: \${title}\${message}</div>
;

```
<form onSubmit={e=>handleSubmit(e)}>
            <label>Name</label>
            <input type="text" id="name" value={name} placeholder="Enter your name"</pre>
            onChange={e=>setName(e.target.value)}/></rappe>
         <label>Email</label>
            <input type="email" id="mail" value={mail} placeholder="Enter email address"</pre>
            onChange={e=>setMail(e.target.value)}/></rappe>
         <label>Phone</label>
            <input type="tel" id="phone" value={phone} placeholder="Enter phone number"</pre>
            <label>Title</label>
            <input type="text" id="title" value={title}
            <label>Comment</label>
            <textarea id="message" value={message} placeholder="Write your comment"</pre>
            onChange={e=>setMessage(e.target.value)}/>
      <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 11: Comments

5. 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)}>
       <label>Name</label>
          <input type="text" id="name" value={name} placeholder="Enter your name"
          onChange={e=>setName(e.target.value)}/></rappe>
          <label>Email</label>
          <input type="email" id="mail" value={mail} placeholder="Enter email add
          onChange={e=>setMail(e.target.value)}/></rappe>
       <label>Phone</label>
          <input type="tel" id="phone" value={phone} placeholder="Enter phone num
          onChange={e=>setPhone(e.target.value)}/>
       <label>Title</label>
          <input type="text" id="title" value={title}
          onChange={e=>setTitle(e.target.value)}/>
      <label>Comment</label>
          <textarea id="message" value={message} placeholder="Write your message"
          onChange={e=>setMessage(e.target.value)}/>
   <button type="submit" className="btn btn-primary">submit/button>
</form>
```

Figure 12: Contact Form

TASK SHEET REVIEW 3

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

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