Centre Name: ACE-HCMC-2-FPT.

Address: 590 Cach Mang Thang 8, District 3, Ho Chi Minh City, Viet Nam.

Alpine Ascents

Supervisor:	Ms. Le Mong Thuy	
Semester:	1	
Batch No:	T1.2403.E0	
Group No:	2	
Order:	Name	Student ID
1.	Nguyen Minh Cuong	Student1559700
2.	Phan Ngo Anh Khoa	Student1559720
3.	Nguyen Duc Sinh	Student1559709

Date: June - 2024

This is to certify that

      Mr. Nguyen Minh Cuong

      Mr. Phan Ngo Anh Khoa

      Mr. Nguyen Duc Sinh

have successfully designed & developed:

      eProject: Alpine Ascents

Submitted by:

      Ms. Le Mong Thuy

Date of issue: July 21th 2024

Authorized 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 Aptect. 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

Mountaineering, also known as rock climbing, is the sport of reaching or attempting to reach high points in mountainous areas primarily for the enjoyment of the climb. While the term is often loosely applied to hiking up low peaks with moderate difficulties, it is more tightly associated with scaling mountains in locations where terrain and weather conditions pose significant dangers that require prior experience for safety. For those untrained, mountaineering can be a dangerously thrilling pursuit.

Unlike most sports, mountaineering lacks widely applied formal rules, regulations, and governance. Practitioners adhere to various techniques and philosophies when engaging in this activity.

ANALYSIS

1. Purpose of the Website.

The website is developed to provide detailed and reliable information about mountaineering activities. It not only introduces climbing techniques but also offers safety advice, information on popular climbing spots, and updates on mountaineering events and competitions.

2. Design and Interface.

- o The website features a user-friendly environment and navigation. Key menus are positioned at the top for easy access to information.

o The interface and color scheme are harmoniously combined to create a visually appealing and engaging experience for users.

3. Technical Requirements

o The website must perform well across all major browsers including Chrome, IE, Firefox, etc., ensuring accessibility from various devices and platforms.

o It utilizes a Single-Page-Application (SPA) approach to deliver a seamless and fast web browsing experience.

o Features are designed to meet technical requirements, facilitating quick and accurate loading and display of information.

The mountaineering website aims to be a valuable and attractive source of information for enthusiasts, providing everything from basic knowledge to practical insights from experts in the field.

CUSTOMER'S REQUIREMENTS SPECIFICATIONS

Client: APT India Co.

1. Business/Project Objective

The portal will be designed as a Single-Page-Application and responsive Website with a set of pages and menus that represent choice of activities to be performed. The pages, menus, and other visual elements must be designed in a visually appealing manner with attractive fonts, colors, and animations.

All of these should also be laid out in a responsive manner

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

1) There should be detailed information about mountaineering
2) The site should also include the details mentioned below in relation to the mountaineering
   - History
   - Types/Styles

- Techniques
- Sheltering
- Hazards

3) Various records related to it should also be made available.

4) The site should also provide the details of groups/organizations/clubs with their location should be displayed using GeoLocation API (eg. GoogleMaps) that arrange mountaineering to various locations in different areas across the globe Users should also be able to see various success stories of organized camps.

5) There should be a gallery section where informative /related videos and pictures

6) There should be a separate section for the material on latest developments in the field.

7) Also there should be general guidelines.

8) Also each link must be properly hyperlinked; images must be used wherever necessary.

Over and above this, the portal should implement the following functionalities:

- Display a continuous scrolling ticker at the bottom of the page with current date, time, and location (hint: Use geolocation features of HTML5).
- Display a visitor count at the top right corner of the page beside a logo image.
- The menu options should change color on hover and also after clicking.
- Fade in and fade out options can be used for the menus.

2. Hardware/ Software Requirements

2.1 Hardware
- Intel Core i3/i5 Processor or higher
- 8 GB RAM or above
- Color SVGA
- 500 GB Hard Disk space
- Mouse
- Keyboard

2.2 Software
Technologies to be used:

- Frontend: HTML5, CSS, Bootstrap, JavaScript, jQuery, React/AngularJS, Figma, XML

- Data Store: JSON files or TXT files

Other Requirements:

- Operating Portal: Windows

- Browsers: Edge, Chrome, Mozilla Firefox, Safari

SCOPE OF THE WORK (IN BRIEF)

1. Home:

- Displays an overview of mountaineering and the website's logo.

2.About Mountaineering

- **History:** Provides the history of mountaineering development.
- **Types:** Lists different types of mountaineering activities.
- **Techniques:** Information about essential mountaineering techniques.
- **Shelters:** Methods and places for shelter while mountaineering.
- **Hazards:** Common mountaineering hazards and how to avoid them.

3. Records: Mountaineering records
4. Organizations

- **List of Organizations:** Lists mountaineering-related organizations and clubs.
- **Map:** Uses Google Maps API to show the locations of organizations on a map.
- **Success Stories:** Success stories of organizations in mountaineering.

5. Gallery

- **Videos:** A list of mountaineering-related videos.
- **Images:** A photo gallery featuring mountaineering.

6. Developments

 Updating the latest documents, technologies, equipment, and developments in the field of mountaineering.

7. Guidelines

General guidelines on regulations, safety, and important considerations for mountaineering.

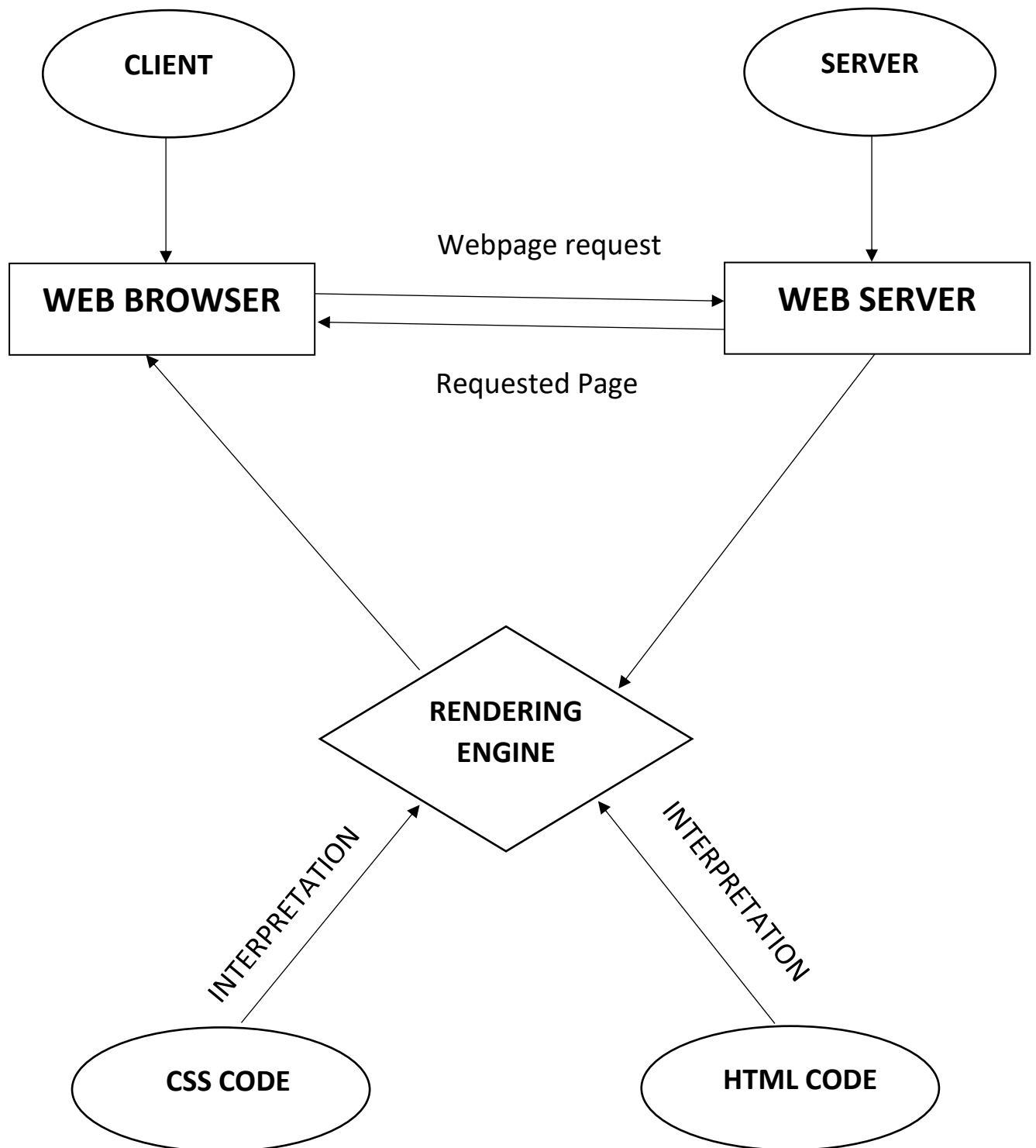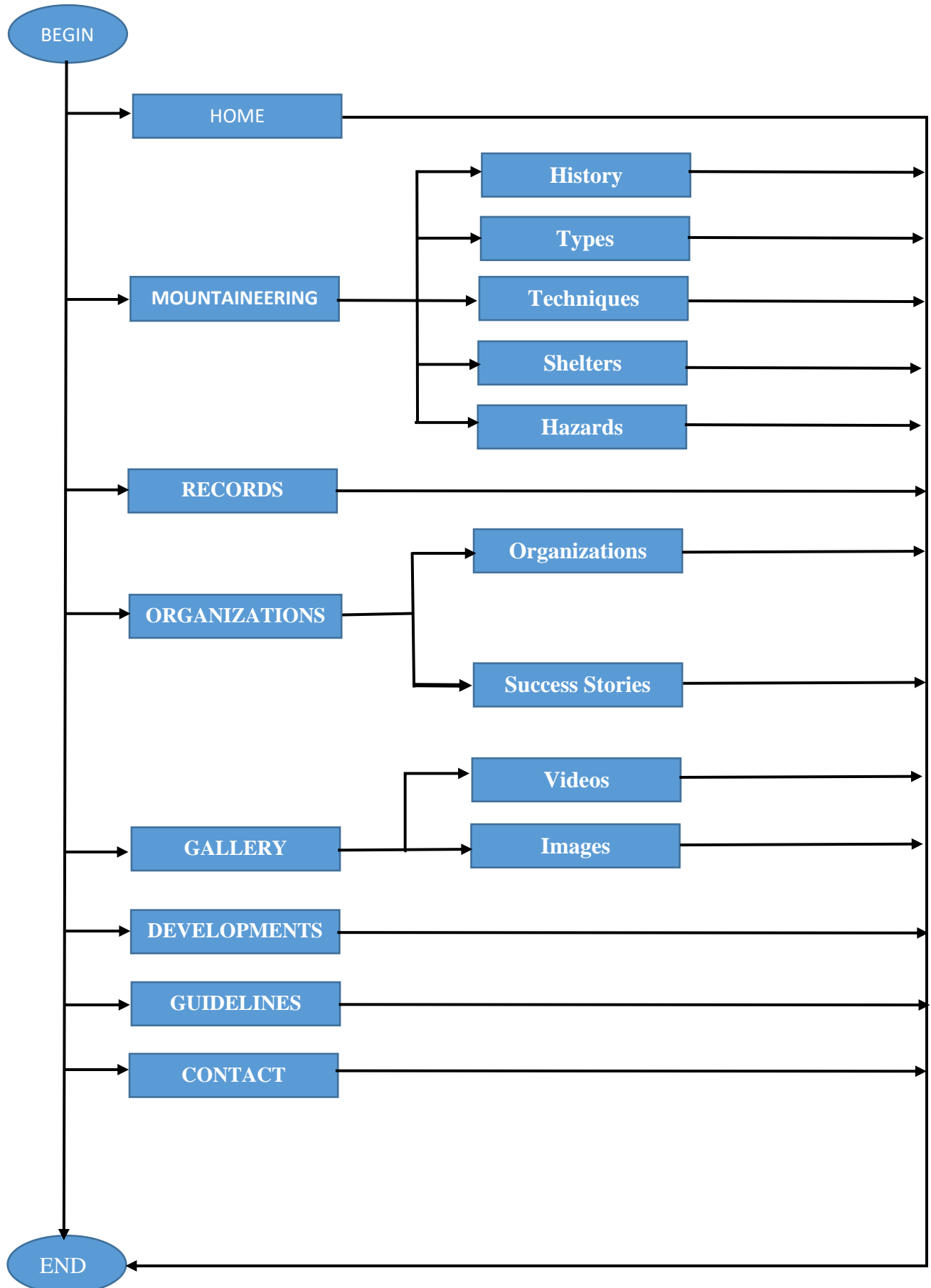### 8. Contact : Contact information for users to reach out or send feedback.
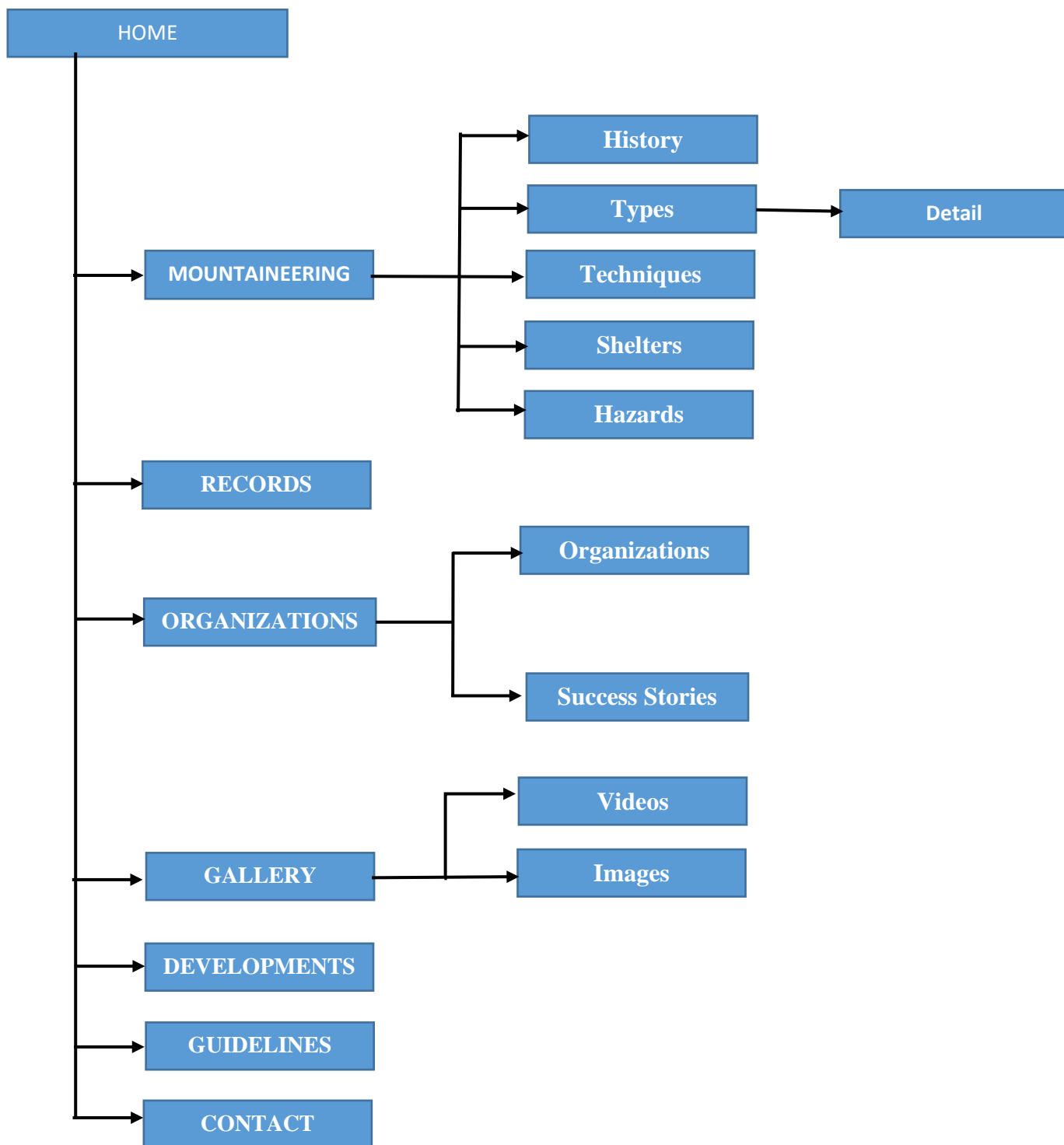
ARCHITECTURE AND DESIGN OF THE SYSTEM

CLIENT

SERVER

WEB BROWSER

WEB SERVER

Webpage request

Requested Page

RENDERING
ENGINE

INTERPRETATION

INTERPRETATION

CSS CODE

HTML CODE

DIAGRAM OF THE WEBSITE

BEGIN

HOME

MOUNTAINEERING

- History
- Types
- Techniques
- Shelters
- Hazards

RECORDS

ORGANIZATIONS

- Organizations
- Success Stories

GALLERY
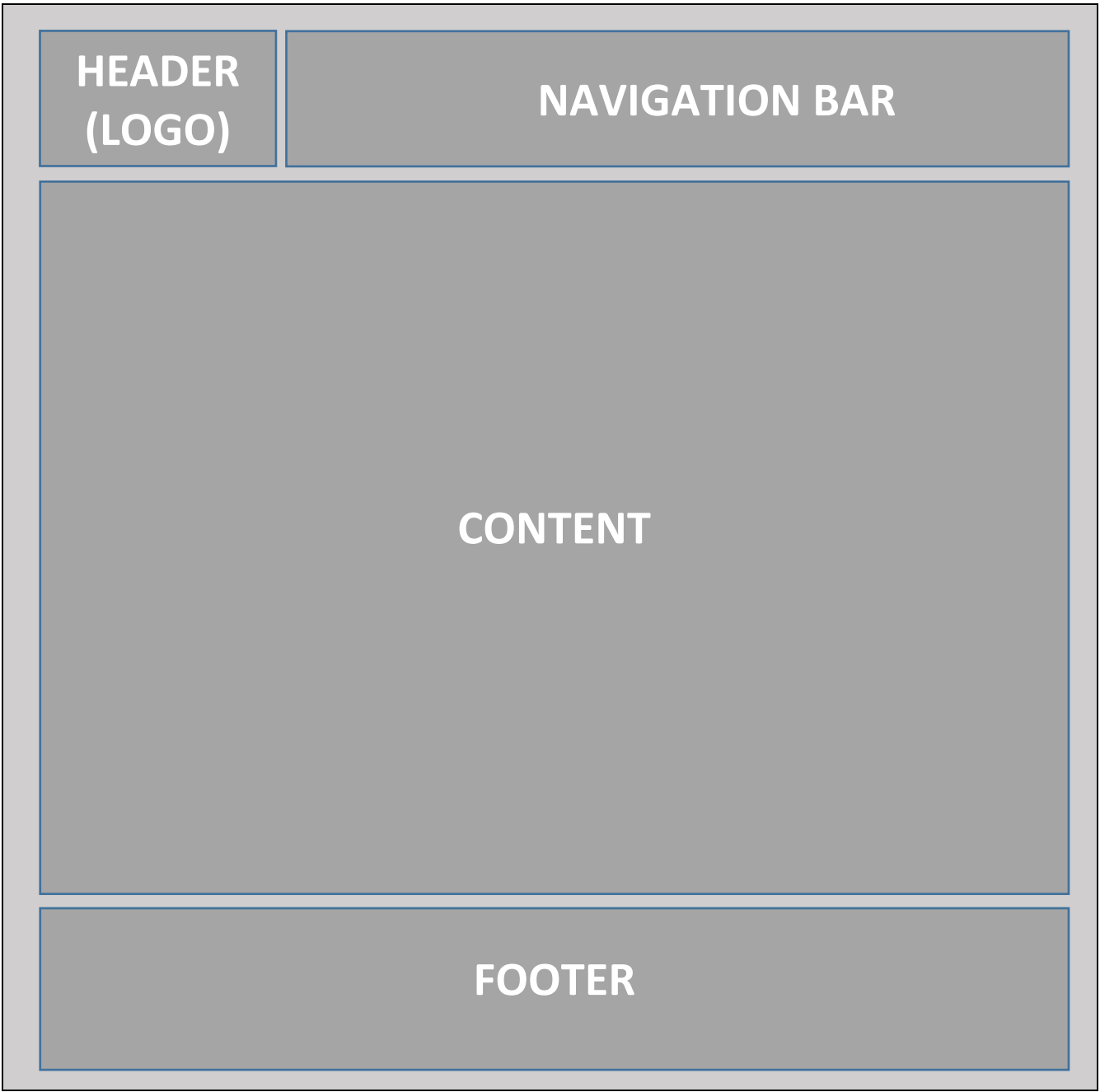
- Videos
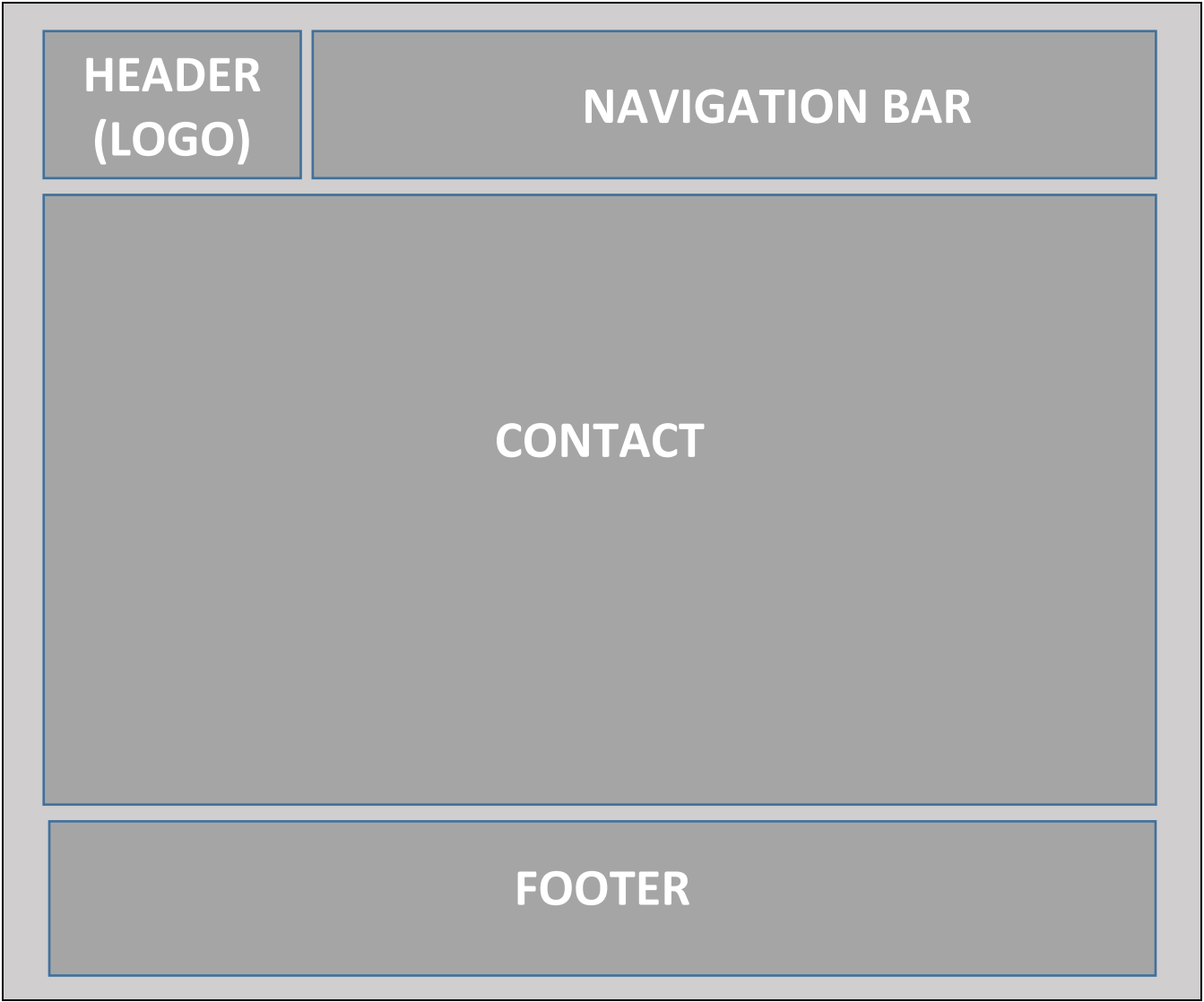- Images

DEVELOPMENTS

GUIDELINES

CONTACT

END

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	Synopsis	Alpine Ascents	Sinh	21/06/24	1	Cuong	Completed
2	Analysis			21/06/24	1	Sinh	Completed
3	The scope of the work (in brief)			21/06/24	1	Khoa	Completed
4	Architecture and design of the system			23/6/24	1	Cuong	Completed
5	Diagram of the website			23/6/24	1	Sinh	Completed
6	Task Sheet Review			23/6/24	1	Khoa	Completed

Date:

Signature of Instructor:	Signature of Team Leader:
Le Mong Thuy	**Nguyen Duc Sinh**

SITE MAP

MOCK OF THE WEBSITE

1. Home

HEADER (LOGO)	NAVIGATION BAR
	PICTURE SLIDESHOW
	INTRODUCE
	OUR PARTNERS
	FOOTER
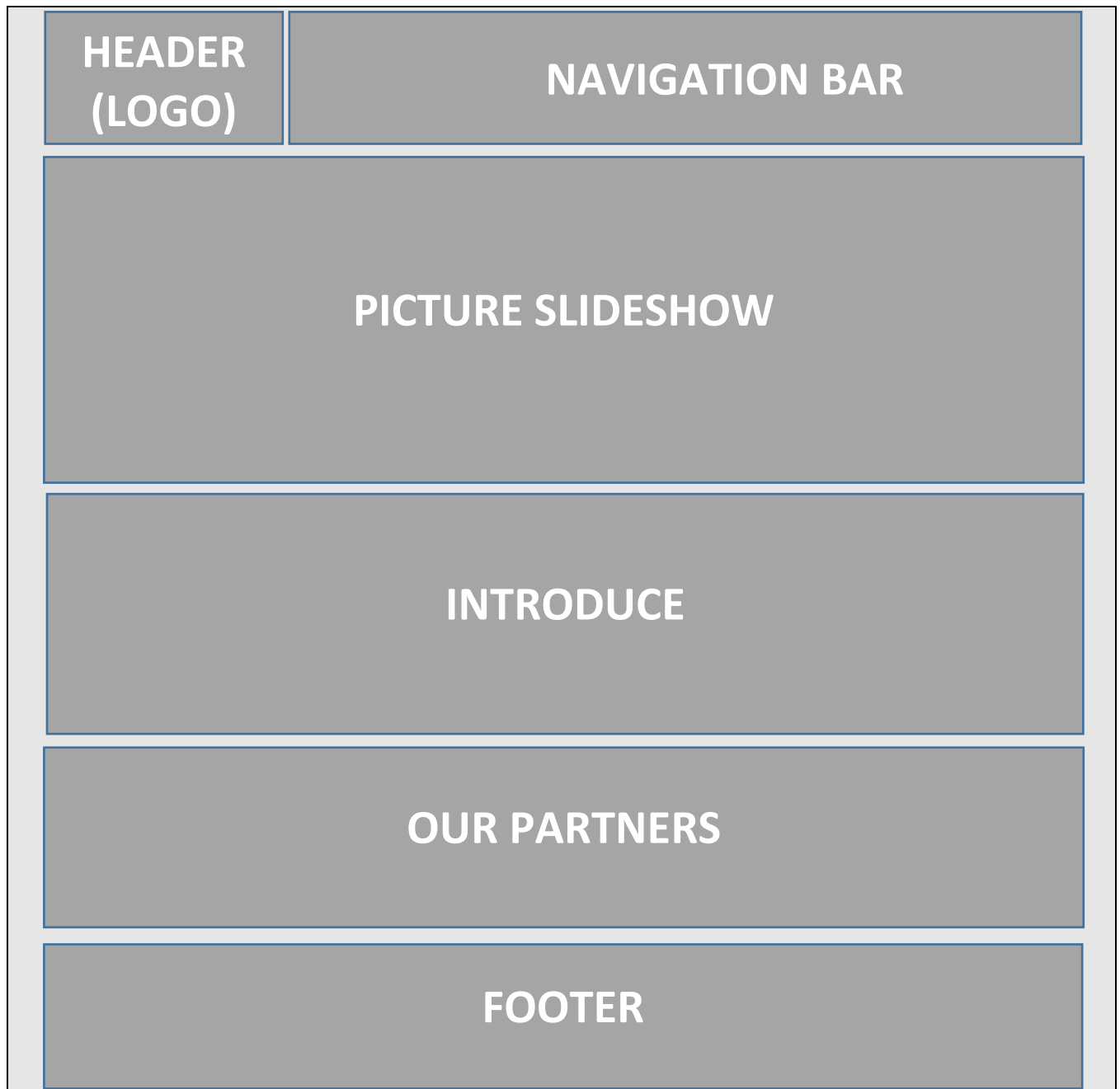
2. Mountaineering

2.1 History
2.2 Types
2.3 Techniques
2.4 Sheltering
2.5 Hazards

HEADER (LOGO)	NAVIGATION BAR

HISTORY	TYPES	TECHNIQUES

SHELTER	HAZARDS

FOOTER
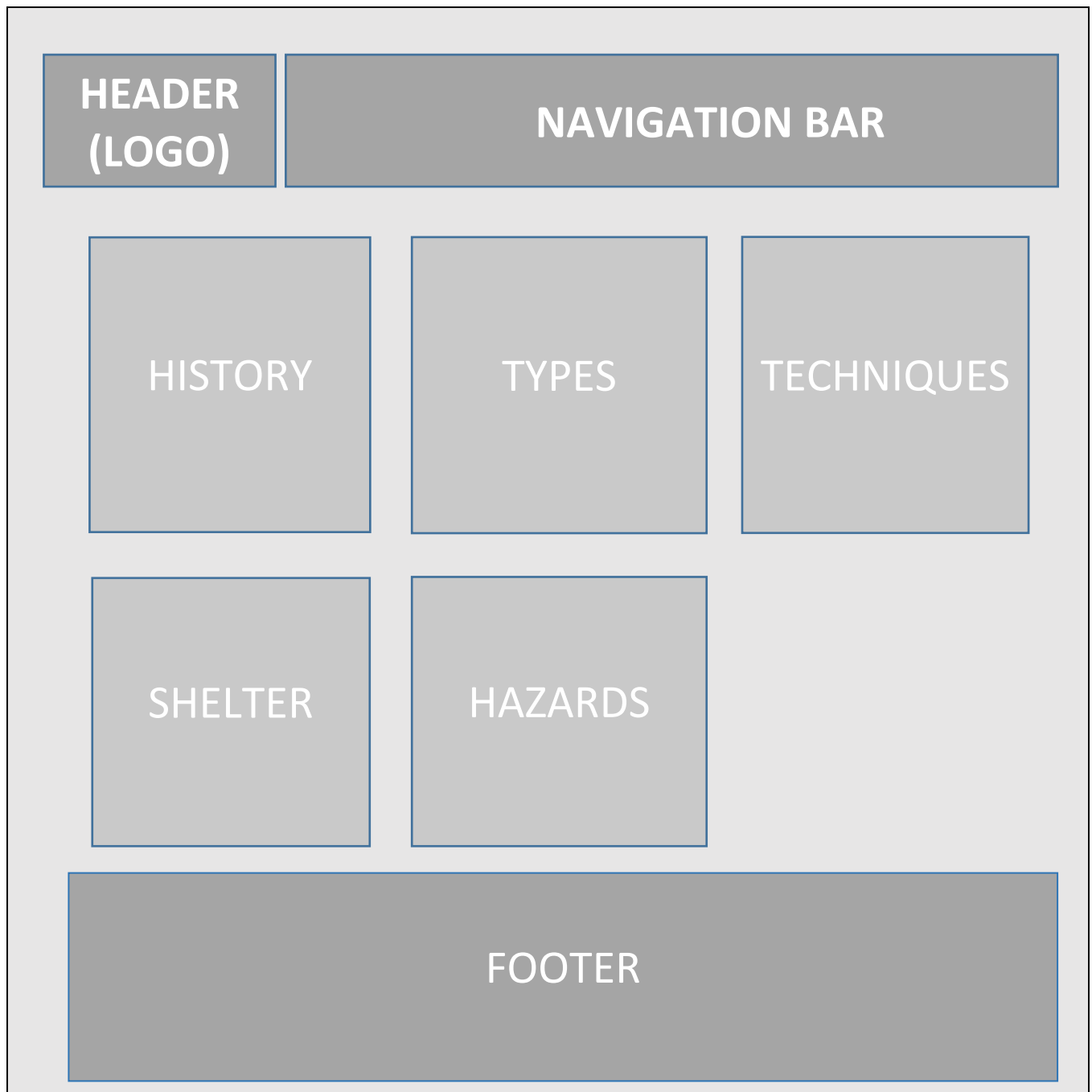
3   Record
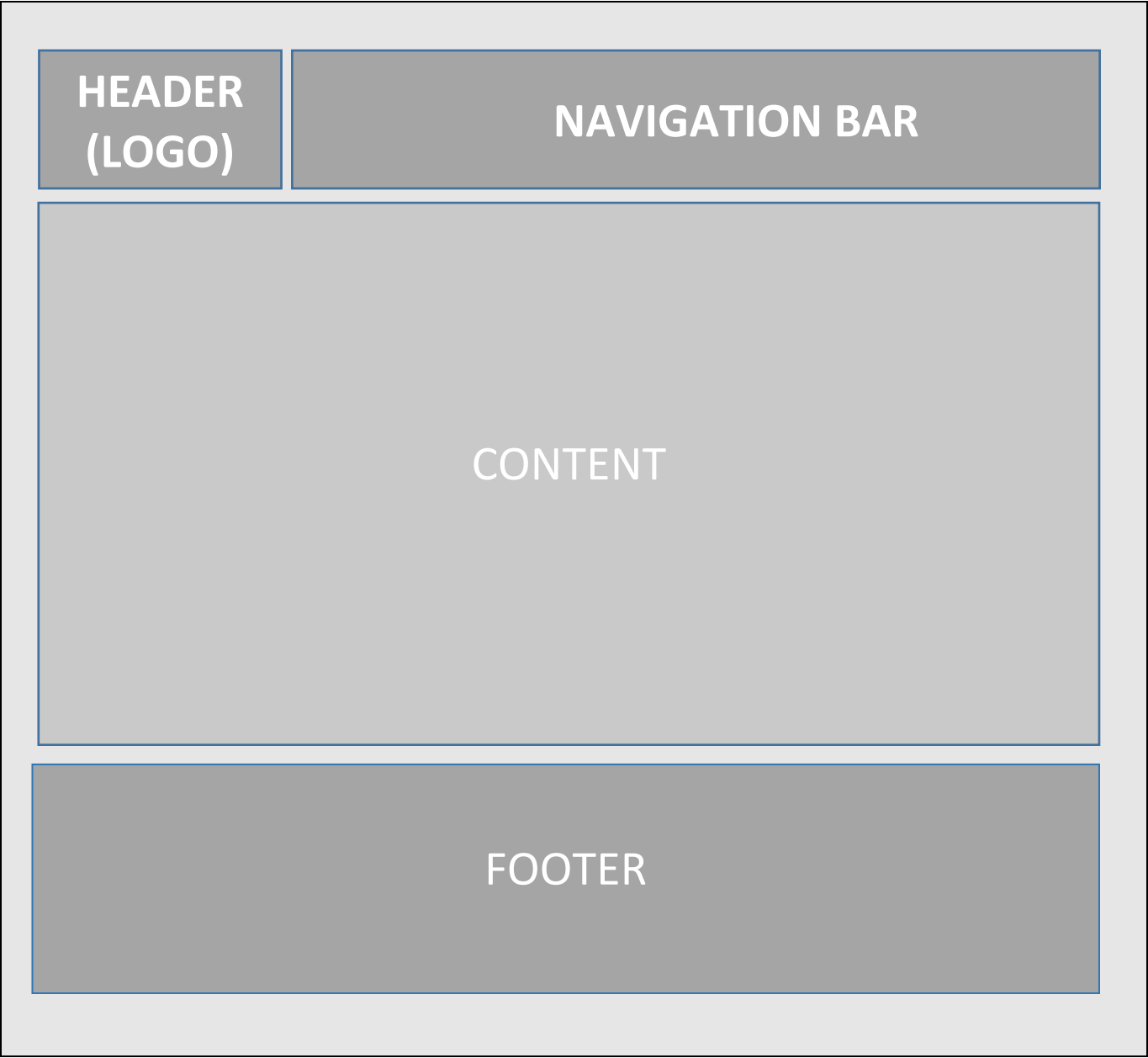
4 Organizations

5   Library

6   Develop

7   Guide

| HEADER (LOGO) | NAVIGATION BAR |

CONTENT

FOOTER

8 Contact

TASK SHEET REVIEW 2

Sr.No.	Task	Project Title:	Activity Plan Prepared By:	Actual Start Date	Actual Days	Team Mate Names	Status
	Project Ref. No.: **eP/Advertisement Portal Management System/01**			**Date of Preparation of Activity Plan:**			
1	Site map	Alpine Ascents	Sinh	24/6/24	2	Sinh	Completed
2	Mock of website			24/6/24	2	Khoa	Completed
3	Task sheet Review			24/6/24	2	Cuong	Completed

Date: 27/06/2024

Signature of Instructor:	Signature of Team Leader:
Ms. Le Mong Thuy	**Nguyen Duc Sinh**

<div align="center">

WEBSITE DESCRIPTION

</div>

1. Home

 a) Description:

- This is a website programmed about Alpine Ascents, and here are some detailed guidelines for using the website.

b) Screenshot:
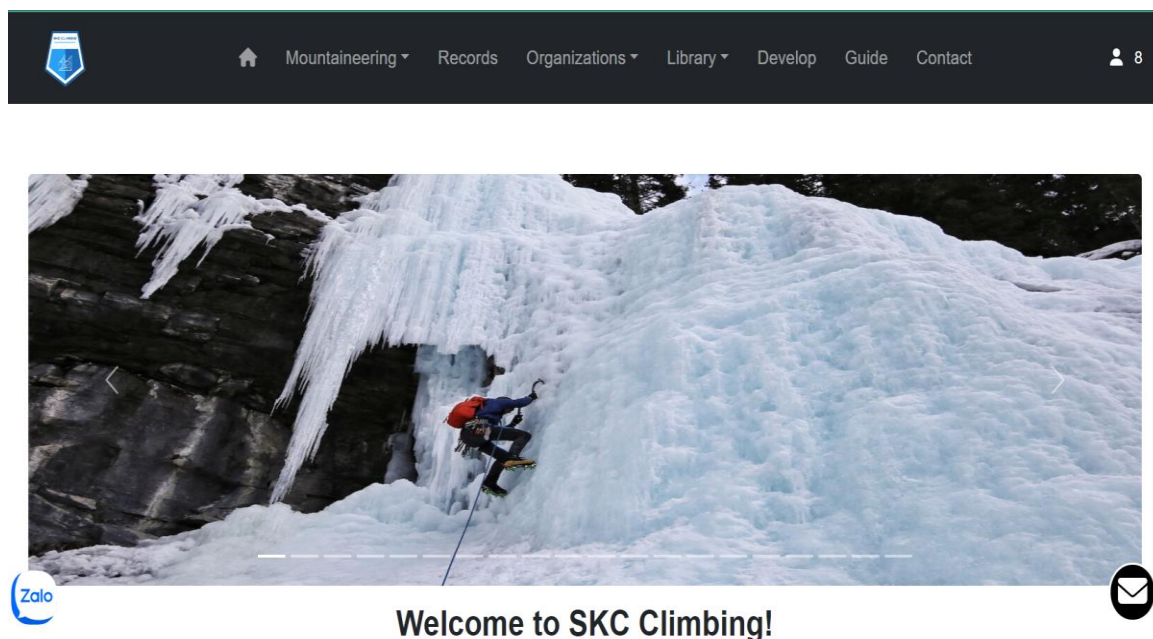
Header:

a) Description:

- This section will always be on top of all pages of the website.

- From here users can easily jump into any categories at any time or return to the homepage by clicking on the name of the elements in the menu which they are interested in.

- Clicking on the logo or home icon will take you to the homepage.

- Clicking on the links will direct you to the articles you want to read.

b) Screenshot:
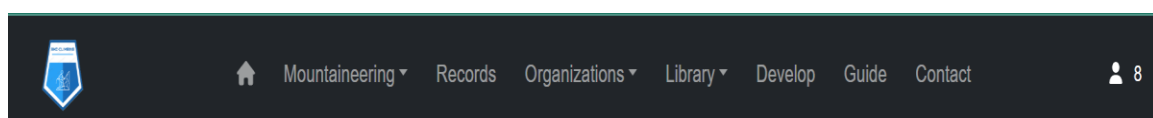
- **OUR PARTNERS:**

a) Description:

Our other partners

b)Screenshot:
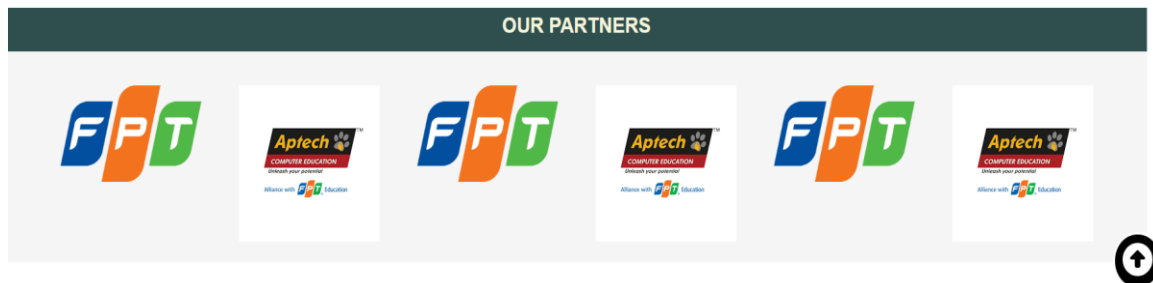
- **Feedback:**

a)Description:

Rate our customer feedback for us.

b)Screenshot:

- **Toppage:**

Description: When clicked, the website content will display at the top of the page.

2. Moutaineering

a) Description:

This section includes information about the climbing process such as: The website must also include the following details related to climbing:

- History

- Types

- Technical

- Shelter

- Hazards

b)Screenshot:
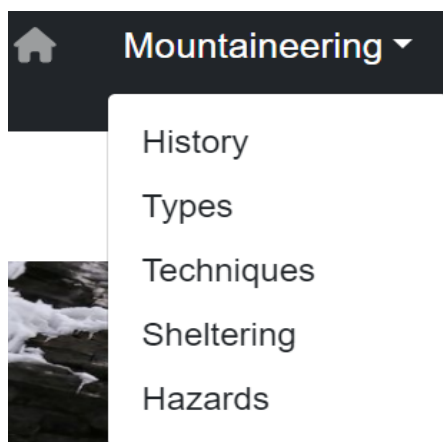
- **History:**

    a) Description:

    Outdoor mountain climbing games have their origins in mountaineering and natural exploration activities. This is an activity that has existed for a long time, ever since humans began exploring and conquering high mountains, often in wild and harsh terrains.

    b) Sreenshot:
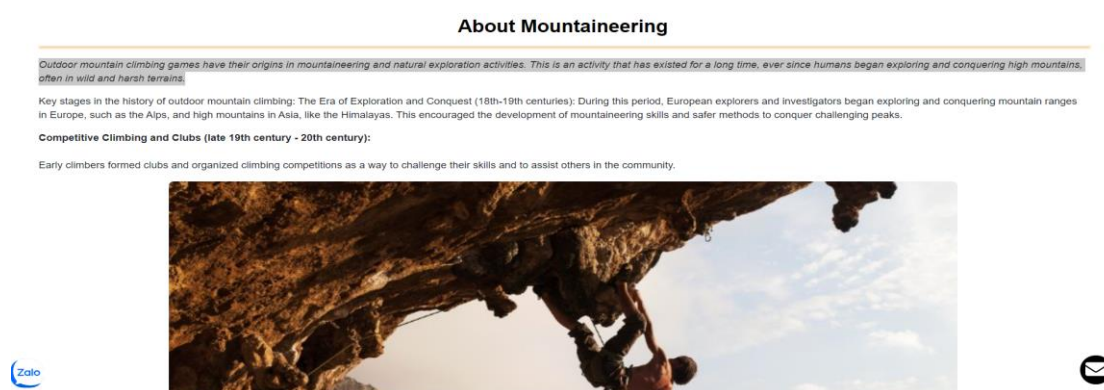
- **Type:**

    a) Description:

    Climbing is an adventurous and exciting sport that attracts many nature enthusiasts. There are various types of climbing, each offering its own unique experiences and challenges. Below are some of the most popular forms of climbing today:

    b)Screenshot:

Climbing is an adventurous and exciting sport that attracts many nature enthusiasts. There are various types of climbing, each offering its own unique experiences and challenges. Below are some of the most popular forms of climbing today:

Traditional Climbing
Traditional climbing, also known as "trad climbing," is one of the popular climbing styles within the climbing community ... More

Sport Climbing
Sport climbing is a popular climbing discipline, renowned for its athletic nature and the demands it places on physical strength and technique. More

Bouldering
Bouldering is a popular climbing discipline performed at low heights without the use of ropes or protective gear. More

- **Techniques**

a) Description:

When outdoor mountain climbing, there are several techniques and skills necessary to ensure safety and success on the journey. Below are some important techniques.

b) Screenshot:

Techniques

When outdoor mountain climbing, there are several techniques and skills necessary to ensure safety and success on the journey. Below are some important techniques:

1. Mountain Climbing Skills
This is the most basic skill in mountain climbing, involving navigating various mountainous terrains, using equipment such as trekking poles, and being flexible in movement across rocks, soil, snow, etc.

There are three main types of terrain when you embark on a mountain climbing journey:

- **Sheltering**

a) Descripion:

Outdoor mountain climbing refuges are natural or developed locations designed to provide suitable environments for mountaineering and other adventurous sports. These are places where enthusiasts can challenge themselves, explore nature, and experience the exhilaration of overcoming mountain challenges. Here are some examples of popular refuges for outdoor mountain climbing sports.

b)Screenshot:

Sheltering

Outdoor mountain climbing refuges are natural or developed locations designed to provide suitable environments for mountaineering and other adventurous sports. These are places where enthusiasts can challenge themselves, explore nature, and experience the exhilaration of overcoming mountain challenges. Here are some examples of popular refuges for outdoor mountain climbing sports:

Large and famous mountain ranges around the world:
Himalaya
Known for its numerous tallest peaks like *Everest, Annapurna,* and many stunning mountains in countries such as Nepal, India, and Bhutan. The region near Mount Everest attracts mountaineers from all around the globe. Jeju Island, South Korea: Famous for its volcanic mountains and diverse natural landscapes, providing an excellent environment for mountaineering activities. These refuges are not only destinations for professionals but also attract many mountain sports enthusiasts who join climbing tours to explore and experience this majestic natural environment.

- **Hazards**

a) Description:

When participating in outdoor mountaineering activities, there are many hazards that climbers need to be aware of and prepare for. Below are some common hazards associated with mountaineering.

a)Screenshot:

Hazards

When participating in outdoor mountaineering activities, there are many hazards that climbers need to be aware of and prepare for. Below are some common hazards associated with mountaineering.

Weather-related hazards
Landslides occur when prolonged heavy rain seeps deep into the soil, causing it to soften and reducing the cohesion between soil blocks. The soil blocks on hillsides, riverbanks, and streambanks then lose their grip on the main mass and cannot withstand gravity, leading to landslides. Typically, prolonged drought before the rainy season can cause deep cracks in the soil, making landslides more likely. This means that if there is very hot weather before it rains, landslides are more likely to occur.

3. Record

a) Description:

Outdoor Mountain Climbing Records: Challenges and Inspirations Beyond Limits.

b)Screenshot:

4. Organization

- List of Organization:

a)Description:

This website will help you find reputable and well-known mountaineering organizations and clubs worldwide. These organizations not only provide knowledge and necessary skills for beginners but also serve as places for networking and sharing experiences for mountain enthusiasts.

b)Screenshot:

- **Successful Stories:**

a)Description:

The mountain climbing organizations around the world are not just places for mountaineers to conquer high peaks, but also crucial centers for connecting humans with nature and fostering cooperation in overcoming formidable challenges. The success stories from these

places not only broaden our perspective on human capabilities but also provide powerful motivation for pursuing higher goals in life.

b)Screenshot:

5. Library

- Video:

a) Description:

Welcome to our mountain climbing video collection! Here, you'll find a curated selection of videos showcasing breathtaking climbs from around the world. Whether you're an avid mountaineer seeking inspiration for your next adventure or simply captivated by the beauty of mountain landscapes, our collection offers a glimpse into the challenges and rewards of scaling peaks. Join us as we explore towering summits, stunning vistas, and the indomitable spirit of those who brave the heights. Discover the thrill of mountain climbing through our carefully curated videos, each capturing the essence of this exhilarating pursuit.
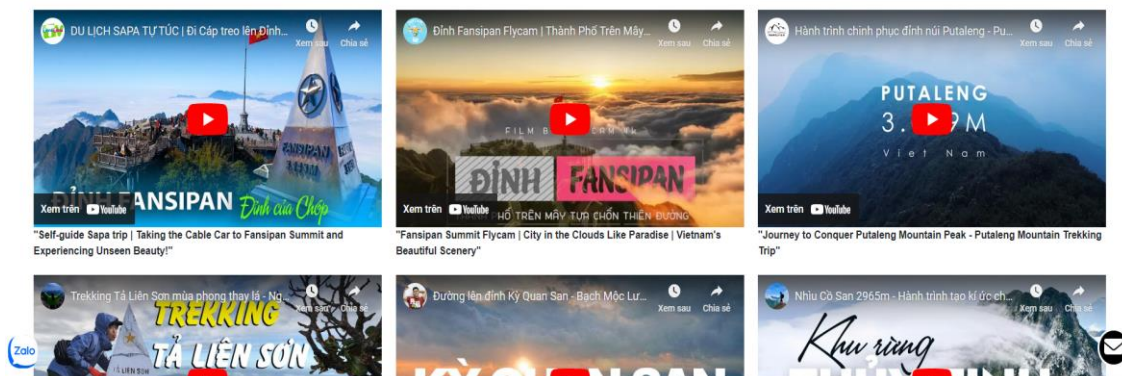
b)Screenshot:

-   **Pictures:**

a) Description:

Including names of famous mountains, where climbing competitions are held.

b) Screenshot:

6. Develop

a)Description:

"Advanced Gear and New Technologies in Mountaineering: Cutting-edge Innovations for Adventure Enthusiasts".

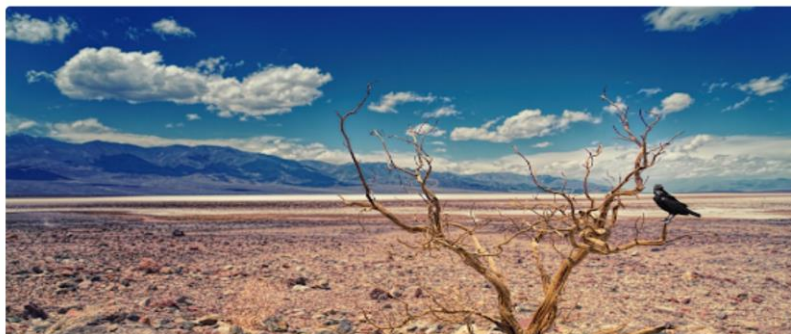b)Screenshot:

7. **Guide**

a) Description:

Climbing is an adventurous activity that requires thorough preparation and adherence to safety regulations. Below are some rules, safety guidelines, and considerations for mountain climbing.

b)Screenshot:

8. **Contact**

a) Description:

This webpage section shows picture and position of company leadership member.

Look at the figure 4 for illustration:

b)Screenshot:

CONTACT INFORMATION SCK-CLIMBING.

Address: 590 CMT8, P.11, Q.3, Tp.HCM.
Hotline: 0989 893 450 | 0931 313 329
Email: sinhndhcmr@gmail.com
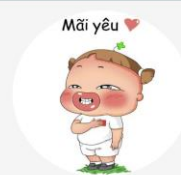**Website:** https://sinh-nd.github.io/skc_climbing36e/

OUR TEAM

Name: Phan Ngo Anh Khoa
Student ID: Student1559720
Email: phanngoanhkhoa1995@gmail.com

Name: Nguyen Duc Sinh
Student ID: Student1559709
Email: sinhndhcmr@gmail.com

Name: Nguyen Minh Cuong
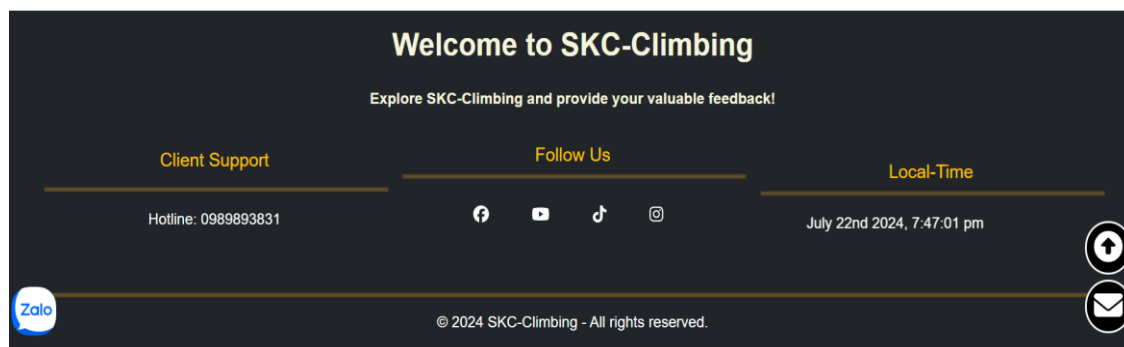**Student ID:** Student1559700
Email: cn0965355986@gmail.com

- **Footer:**

a) Description:

Explore SKC-Climbing and provide your valuable feedback!

b)Screenshot:

Welcome to SKC-Climbing

Explore SKC-Climbing and provide your valuable feedback!

Client Support

Follow Us

Local-Time

Hotline: 0989893831

July 22nd 2024, 7:47:01 pm

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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	Alpine Ascents	Sinh	1/7/24	3	Sinh	Completed
2	Moutaineering						
3	Record						
4	Organization			1/7/24	3	Khoa	Completed
5	Library						
6	Develop						
7	Guide			1/7/24	2	Cuong	Completed
8	Contact						

Date:

Signature of Instructor:

Signature of Team Leader:

Ms. Le Mong Thuy

Nguyen Duc Sinh