FPT ACADEMY INTERNATIONAL FPT – APTECH COMPUTER EDUCATION

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

Incredible Bridges

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Semester:	1	
Batch No:	T1.2406.E1	
Group No:	6	
Order:	**Name**	**Student ID**
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2.	Nguyen Minh Thuc	Student1580660
3.	Ngo Tuan Anh	Student1575994

Date: September- 2024

This is to certify that

Mr. Bui Anh Khoa

Mr. Ngo Tuan Anh

Mr. Nguyen Minh Thuc

have successfully designed & developed:

eProject: Incredible Bridges

Submitted by:

Mr. Le Mong Thuy

Date of issue: Sep 26th 2024

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, who 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 the best environment for the group to focus on the project, motivating the members to achieve their goals.

SYNOPSIS

Mankind has been building bridges since the time of early civilizations. Today, bridges are all around us – they provide easier, faster, and safer connections between two points. Bridges have evolved from merely utilitarian structures to become symbols of cities, countries, and human progress. Iconic bridge structures embody engineers' eternal aspiration to greater achievement – longer and taller, stronger and faster. We all admire bridges that span gracefully over a deep ravine, canyon, large river, or bay, and rightfully consider them high technical achievements.

Today's bridges not only symbolize our world's advancement in design but its advancement in technology as well. Consequently, architects and engineers have been able to merge design and technology together to create bridges that are bigger, better, and more spectacular than ever before. Several of these are simply stunning – a true marvel of classic engineering capabilities and the outstanding achievements of modern engineering.

We are supposed to compile the world's most incredible bridges, both young and old. You are supposed to create a Single-Page Application and a responsive website for them with the below-mentioned requirement specifications. The website should work well in all leading browsers including Chrome, IE, Firefox, etc.

ANALYSIS

1. Purpose of the Website
   The website was developed to provide comprehensive and reliable information about incredible bridges worldwide. It features detailed descriptions of various bridges, focusing on their construction, significance, and the innovative technologies behind them. The site also highlights the engineering challenges these structures address and the aesthetic qualities that make them iconic.
2. Design and Interface
   The website offers a user-friendly experience with an intuitive navigation system. The layout features essential information on various types of bridges, and the content is designed to be visually engaging with a harmonious color scheme.
3. Technical Requirements
   - The website must perform well across all major browsers including Chrome, IE, Firefox, etc., ensuring accessibility from various devices and platforms.
   - It utilizes a Single-Page Application (SPA) approach to deliver a seamless and fast web browsing experience.
   - Features are designed to meet technical requirements, facilitating quick and accurate loading and display of information.

CUSTOMER'S REQUIREMENTS SPECIFICATIONS

Client: APT India Co.

1. Business/Project Objective
   The portal will be designed as a Single-Page Application and a responsive website with a set of pages and menus that represent choices 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 website is to be created based on the following requirements:

   1. The top of the page should be presented with a suitable logo and various images of famous bridges.
   2. The site should have sections like Historical Great Bridges, High-Level Achievements in Bridges, Iconic Bridges, Modern Great Bridges, etc.
   3. Sections like Longest, Tallest, Highest, Oldest, etc., should be added to the website.
   4. History and information of the bridges should be added along with images.
   5. The site must contain a filter based on continents to look for various bridges in each continent.
   6. A gallery can be added for viewing different images.
   7. Feedback must be allowed to be entered by the viewer.
   8. A site map, gallery, about us, FAQ link, and contact us link must be added.
   9. The "About Us" and "Contact Us" sections should display the email ID, address, and contact number of the organization developing the system.
   10. The advertisement section for buses and flights can be included for reaching the location.

Hardware/Software Requirements

Hardware:

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

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

   - Overview of incredible bridges and a brief introduction.
   - Outstanding Bridges (biggest, highest, etc.): Bridges filtered based on size such as tallest, biggest, closest, etc.

2. Bridges Categorization

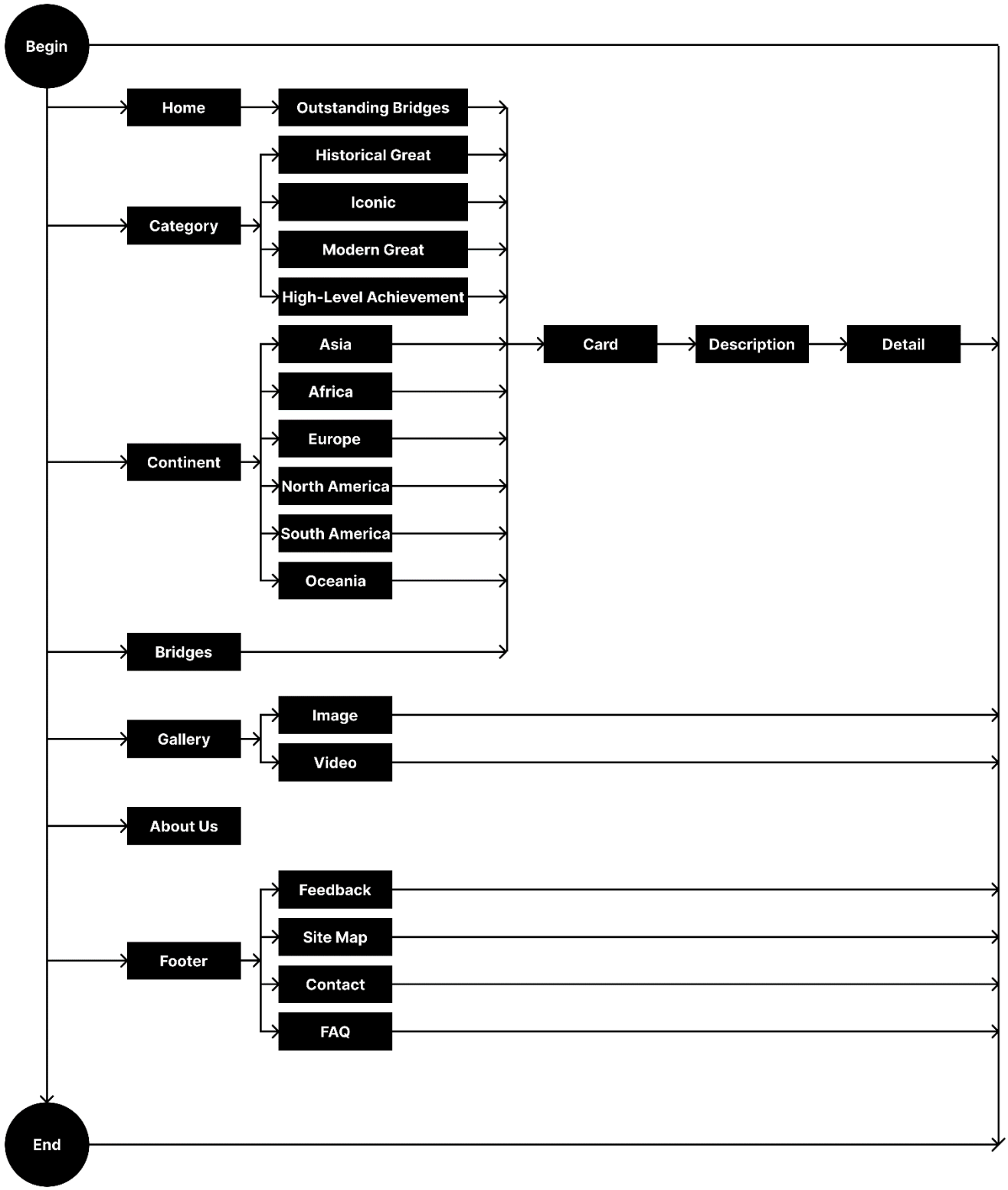
    - **Historical Bridges:** Provides information about bridges constructed a long time ago.
    - **Iconic Bridges:** Provides information about bridges considered iconic worldwide.
    - **Continent filter:** Categorizes bridges based on location, divided by continent (NA, Africa, Asia, etc.).
    - **High-Level Achievements Bridges**

3. Gallery

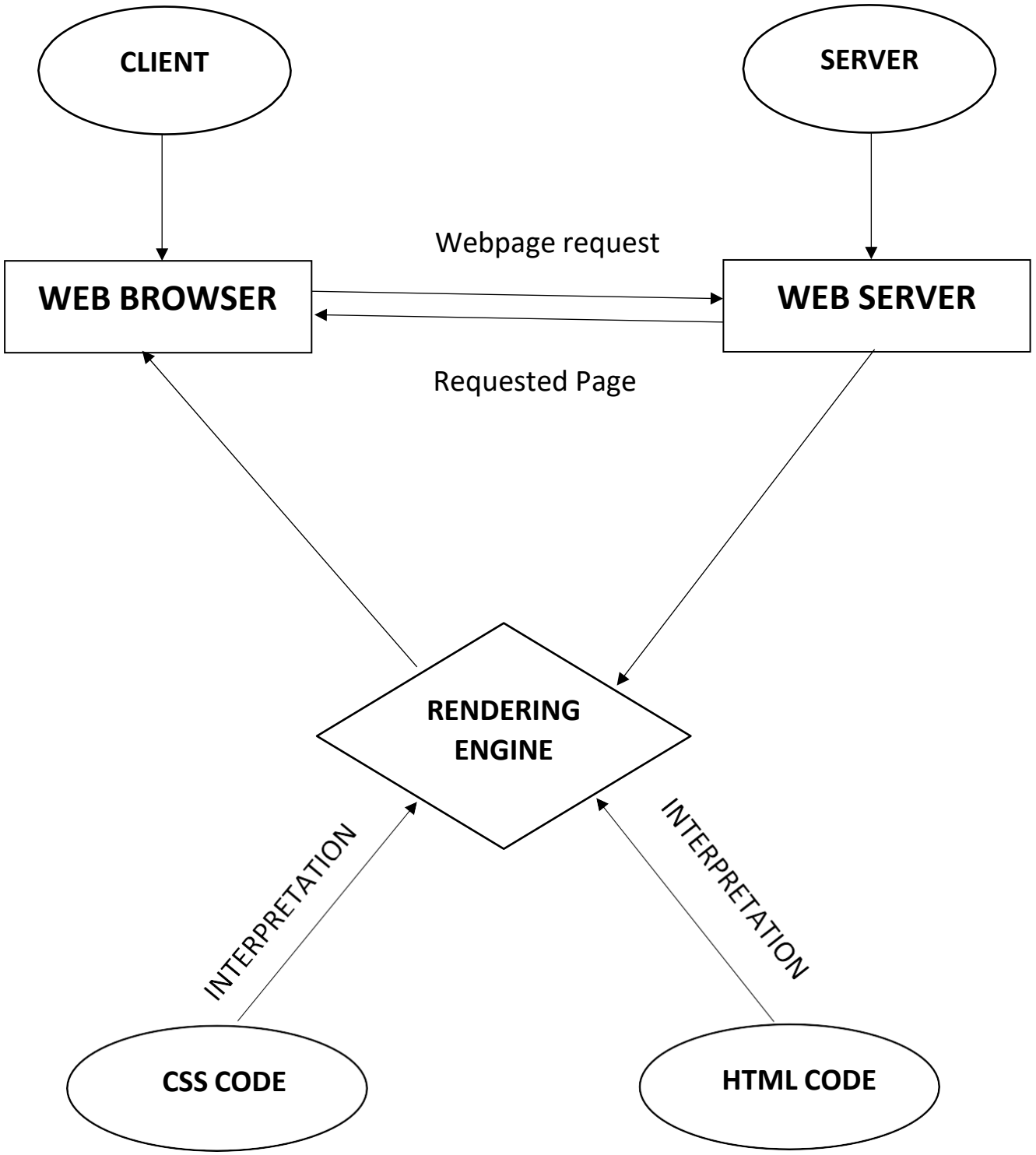
    - **Images:** A photo gallery featuring incredible bridges.

4. Contact**:** Contact information for users to reach out or send feedback.
5. Technical Requirements: Utilizing technologies such as HTML5, CSS3, JavaScript, React, JSON, Bootstrap, and the MUI (Material-UI) library to ensure a smooth user experience across popular browsers such as Chrome, Firefox, and Edge.

DIAGRAM OF THE WEBSITE



ARCHITECTURE AND DESIGN OF THE SYSTEM



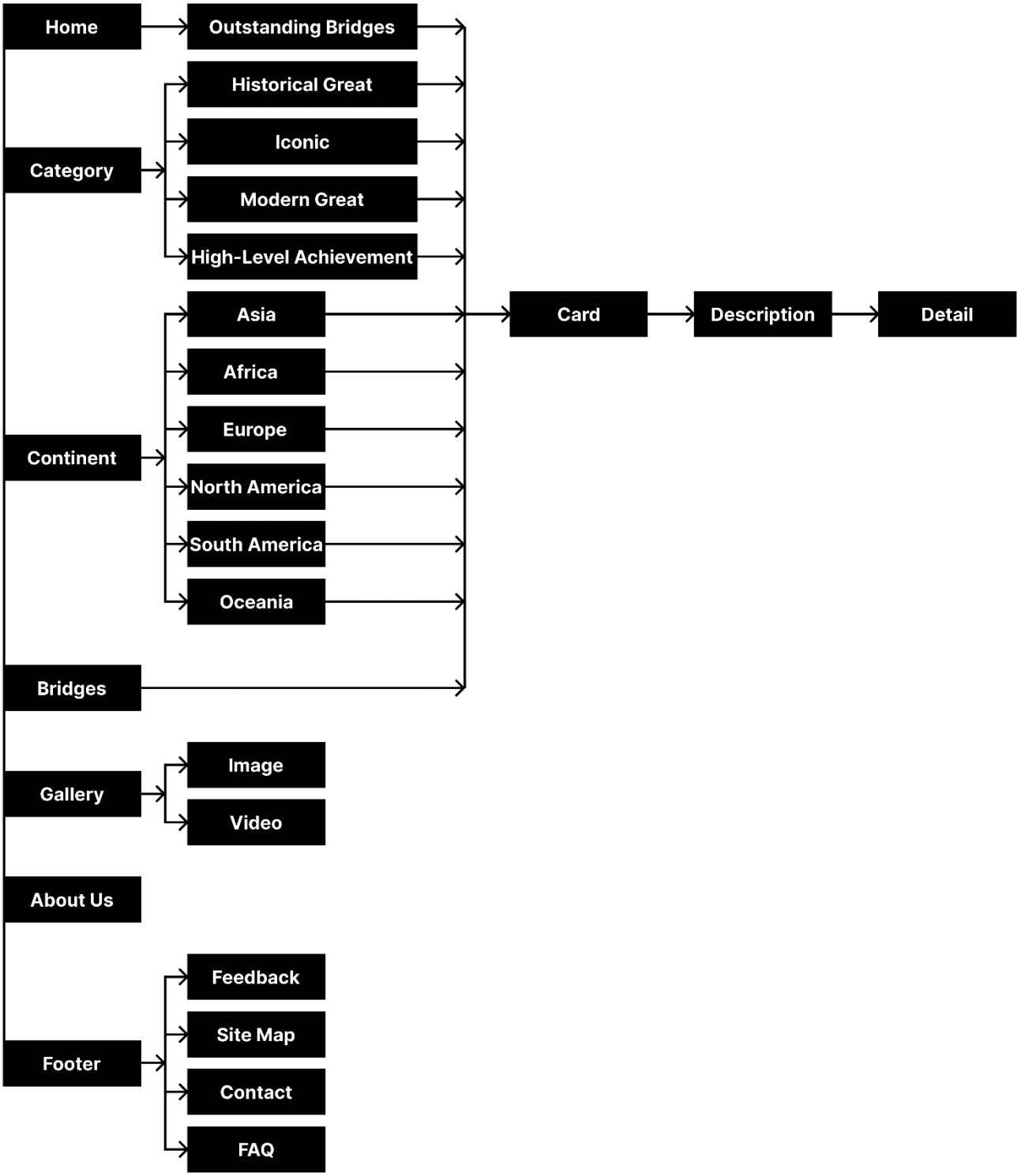
TASK SHEET REVIEW 1

Project Title: Incredible Bridges
Activity Plan Prepared By: Nguyen Minh Thuc

Sr. No	Task	Date of Preparation of Activity Plan	Actual Start Date	Actual Days	Team Mate Names	Status
1	Synopsis	01/10/2024	29/09/2024	1	Bui Anh Khoa	Completed
2	Analysis	01/10/2024	29/09/2024	2	Ngo Tuan Anh	Completed
3	Scope of Work (Summary)	01/10/2024	29/09/2024	2	Nguyen Minh Thuc	Completed
4	Design of Website Interface	01/10/2024	01/10/2024	2	Ngo Tuan Anh	Completed
5	Research Information on Bridges	01/10/2024	29/09/2024	2	Ngo Tuan Anh	Completed
6	Architecture and System Design	01/10/2024	30/09/2024	2	Nguyen Minh Thuc	Completed
7	Website Sitemap	01/10/2024	01/10/2024	2	Bui Anh Khoa	Completed
8	Assist with Report Preparation	01/10/2024	02/10/2024	1	Bui Anh Khoa	Completed
9	Task Sheet Review	01/10/2024	03/10/2024	1	Nguyen Minh Thuc	Completed

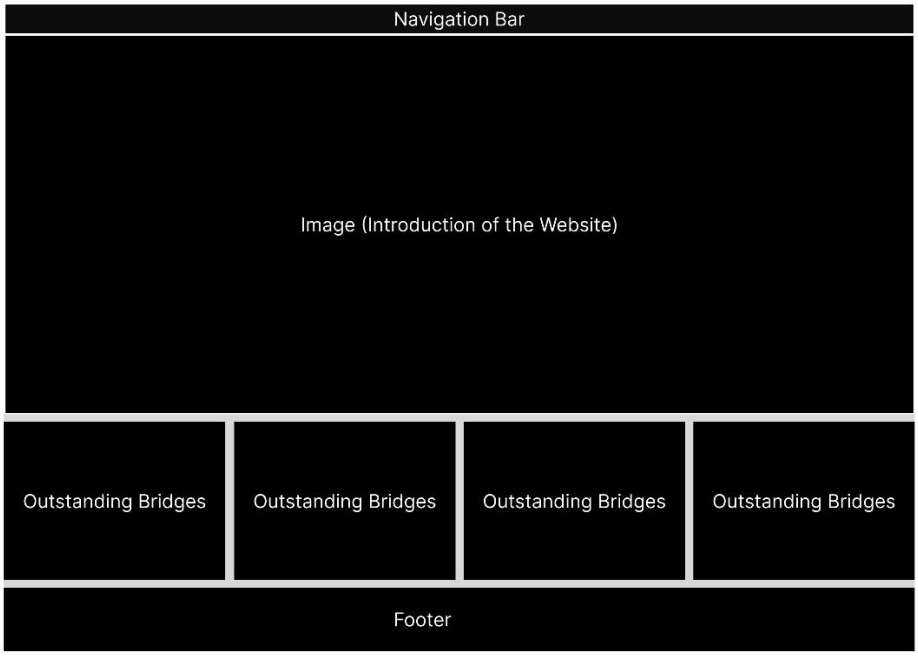
Date:	
Signature of Instructor: **Le Mong Thuy**	Signature of Team Leader: **Nguyen Minh Thuc**

SITE MAP

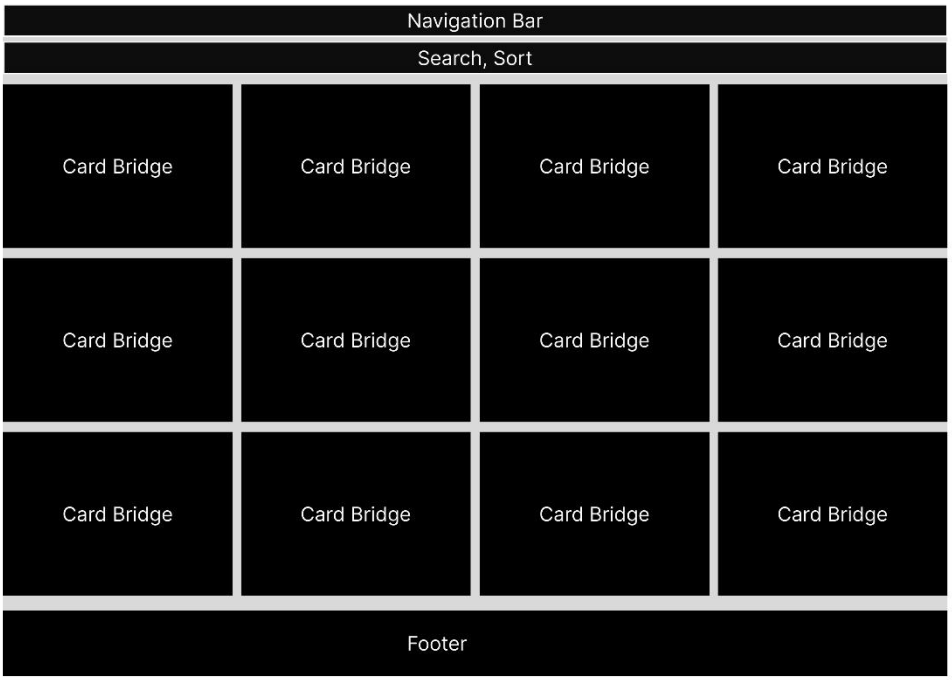

Home
Outstanding Bridges
Historical Great
Iconic
Category
Modern Great
High-Level Achievement
Asia
Card
Description
Detail
Africa
Europe
Continent
North America
South America
Oceania
Bridges
Image
Gallery
Video
About Us
Feedback
Site Map
Footer
Contact
FAQ

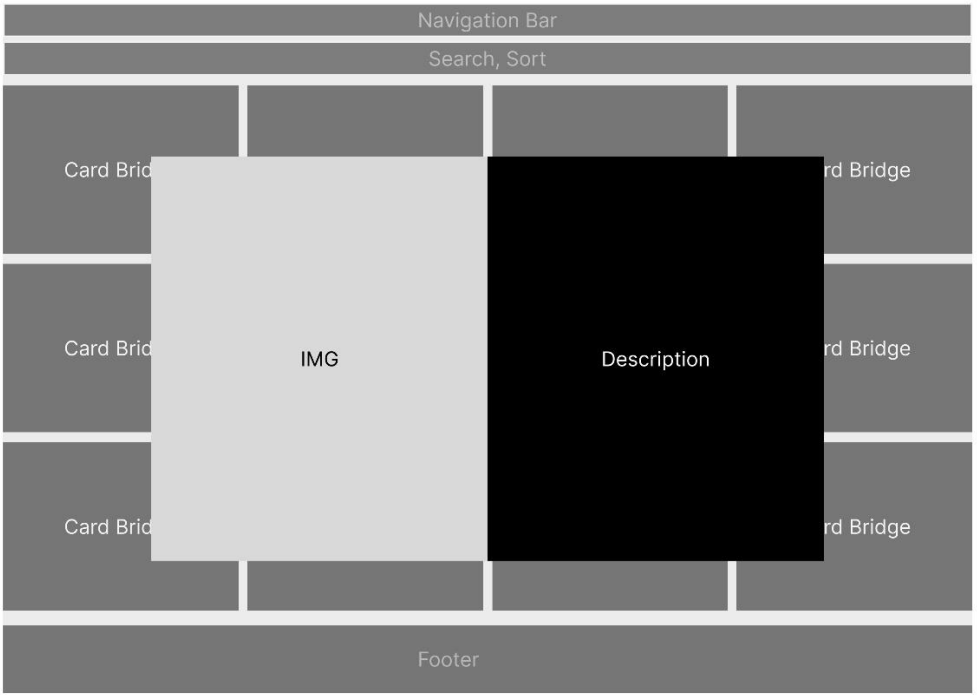
MOCK OF THE WEBSITE

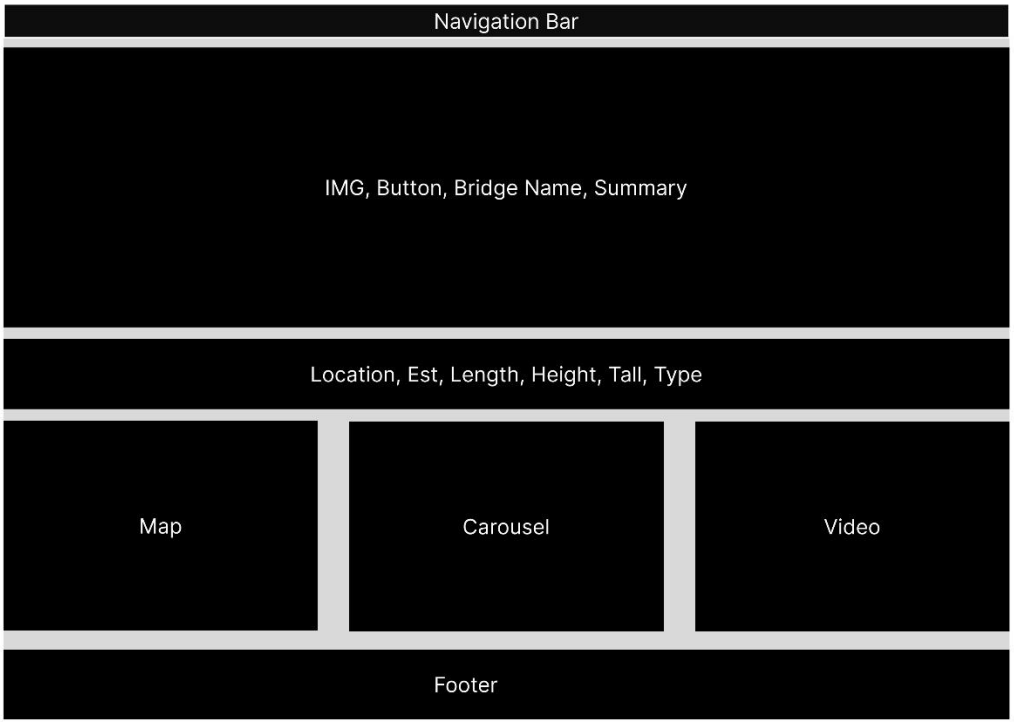
1. Home

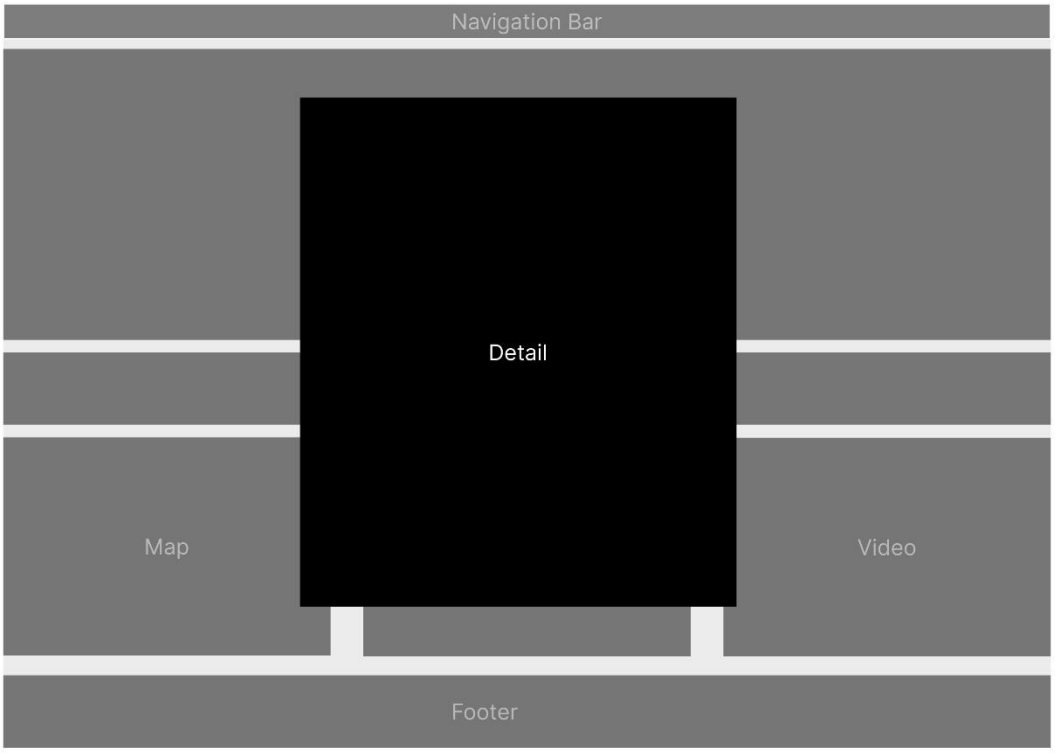


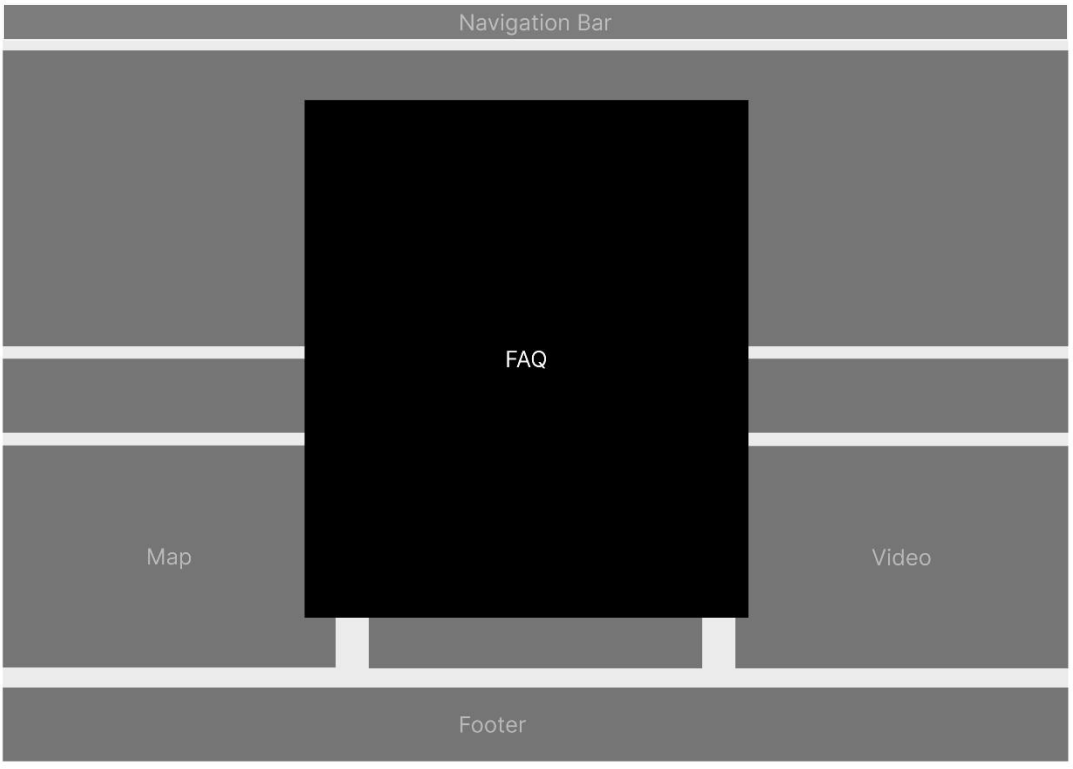
2. Bridges, Category (Historical Great Bridges, Iconic Bridges, Morden Great Bridges, High-Level Achievement Bridges), Continent Filter(Asia, Europe, Africa, North America, South America, Oceania) :



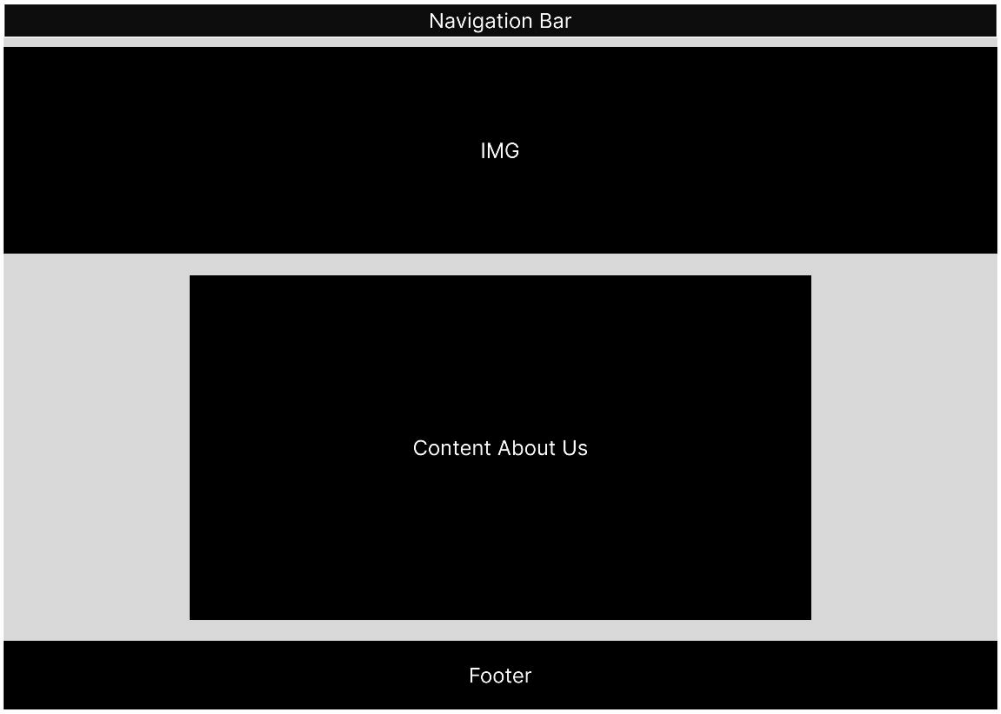

Navigation Bar
Search, Sort
Card Brid
rd Bridge
Card Brid
IMG
Description
rd Bridge
Card Brid
rd Bridge
Footer


Navigation Bar
IMG, Button, Bridge Name, Summary
Location, Est, Length, Height, Tall, Type
Map
Carousel
Video
Footer

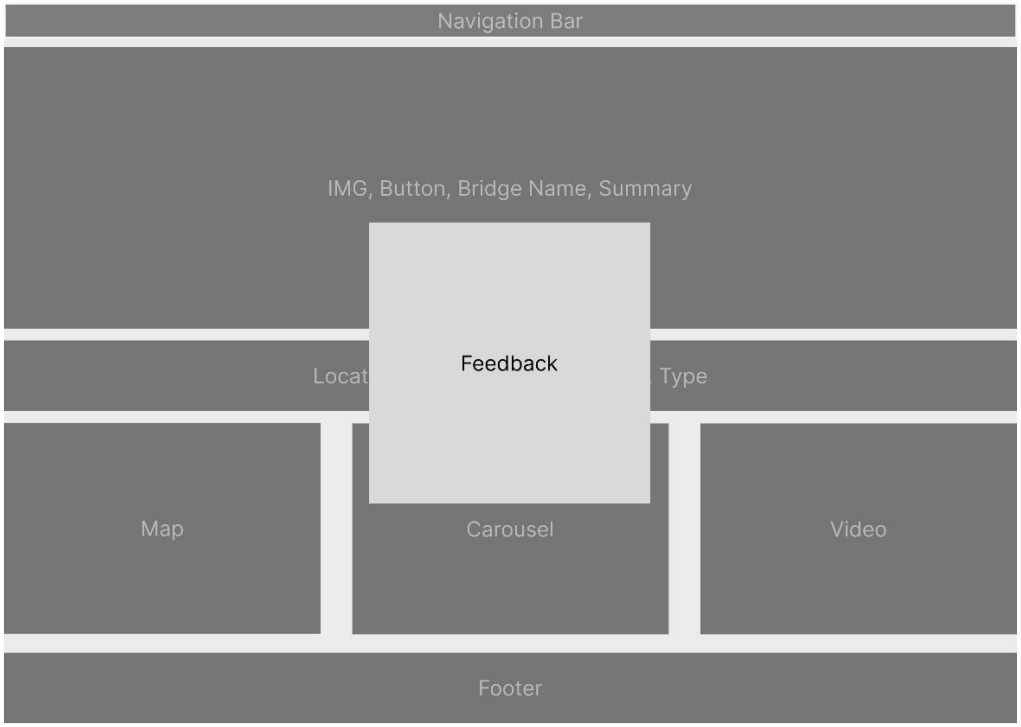

Navigation Bar
Detail
Map
Video
Footer


Navigation Bar
FAQ
Map
Video
Footer

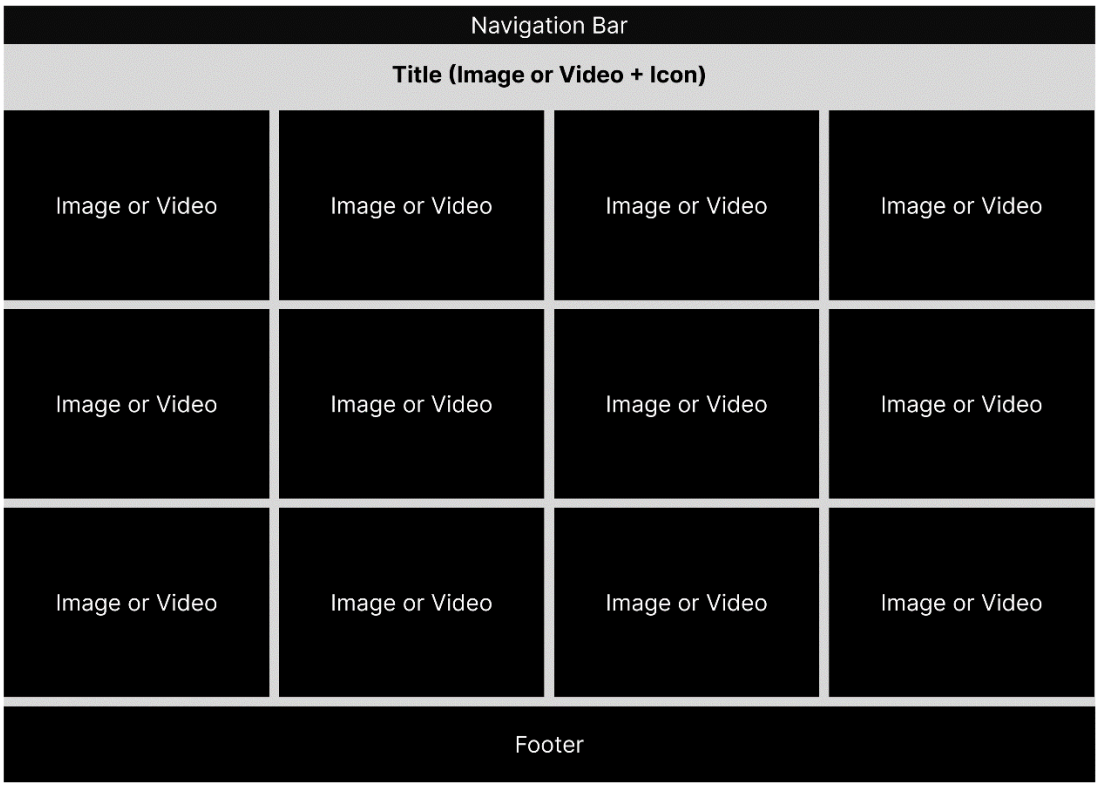
3. About Us



4. Feeback

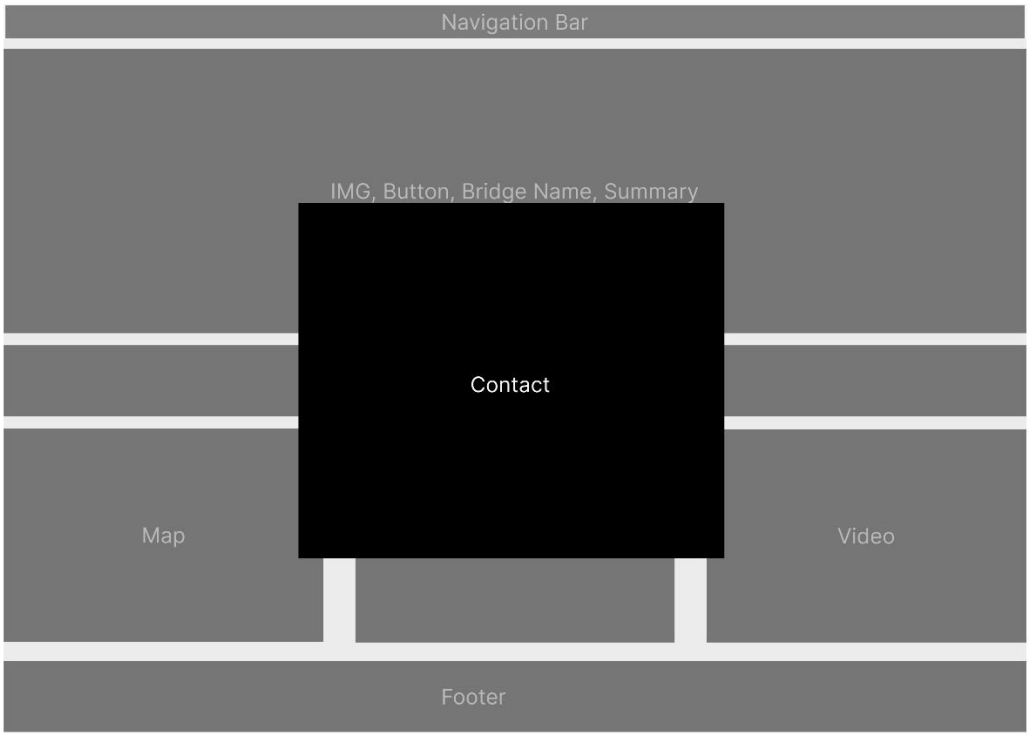


5. Gallery



6. Site Map

7. Contact (Pop-up Model)



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	Alpine Ascents	Thuc	01/10/24	1	Thuc	Completed
2	Mock of website			01/10/24	1	Thuc	Completed
3	Task sheet Review			01/10/24	1	Khoa	Completed

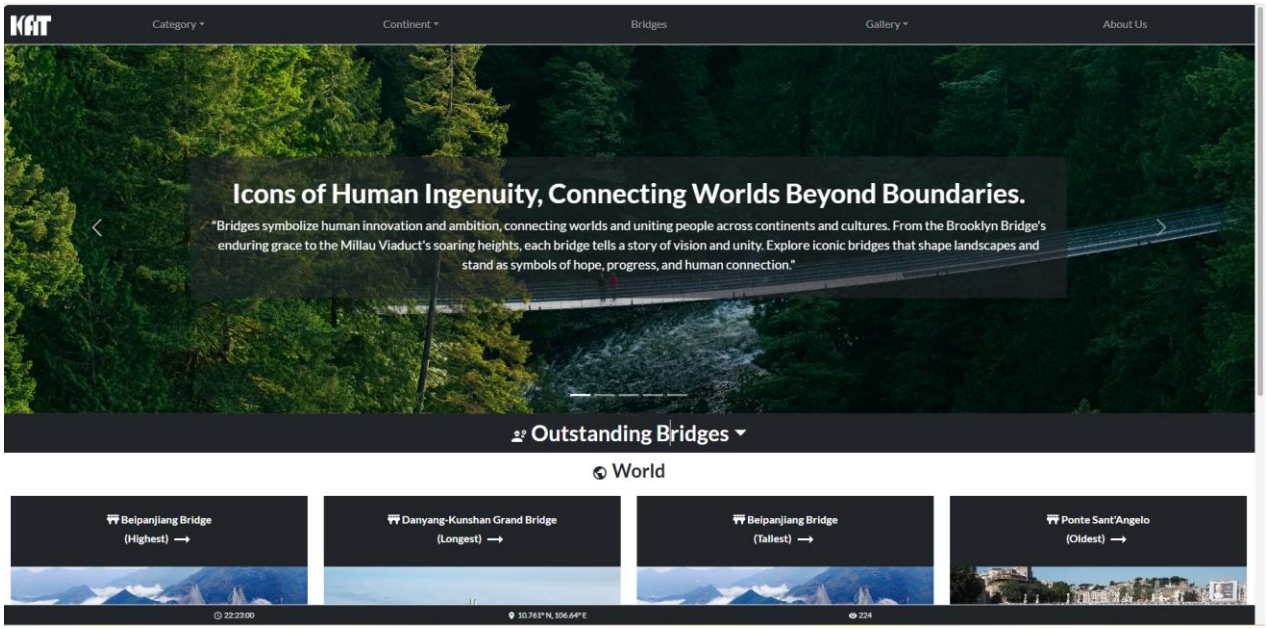
Date: 03/10/2024	
Signature of Instructor: **Ms. Le Mong Thuy**	Signature of Team Leader: **Nguyen Minh Thuc**

WEBSITE DESCRIPTION

1. Home

a) **Description:** Mankind has been building bridges since early civilizations, and today, bridges represent not only practical solutions for connection but also symbols of human ingenuity and progress. This website showcases the world's most incredible bridges, both ancient and modern, highlighting their significance in advancing both design and technology. Through these stunning feats of engineering, we celebrate the creativity and innovation that bridges embody.

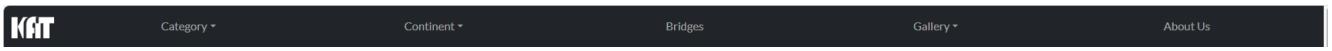
b) **Screenshot:**



2. Header

a) **Description:** This section will always be at the top of all pages of the website. Users can easily jump to any categories at any time or return to the homepage by clicking on the menu elements they are interested in. Clicking on the logo will take the user to the homepage. Clicking on the links will direct the user to the relevant sections.

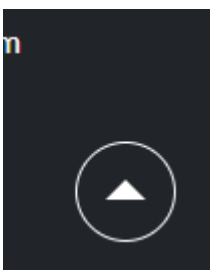
b) **Screenshot:**



3. Top Page

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

b) **Screenshot:**



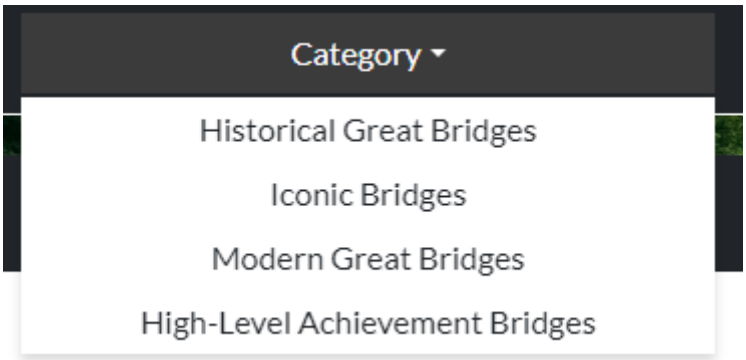
4. Category

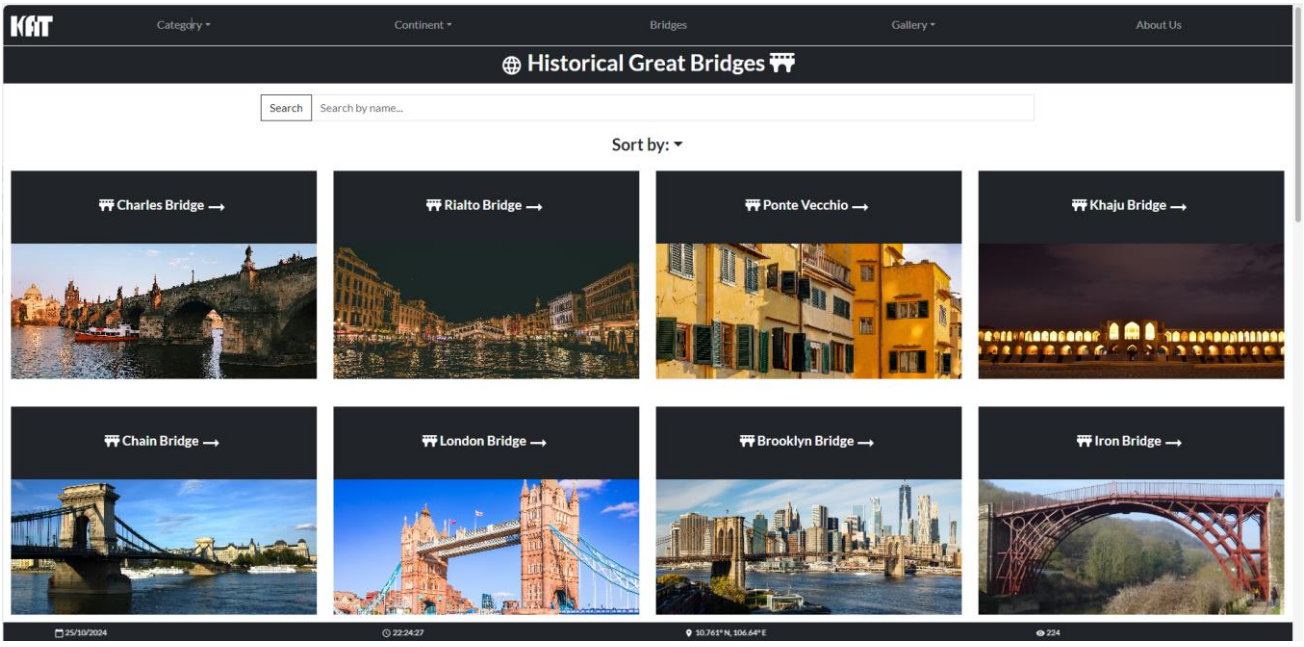
a) **Description:** This section categorizes bridges into:

- Historical Great Bridges
- Iconic Bridges
- Modern Great Bridges
- High-Level Achievement Bridges

When clicked, it will illustrate the type of bridges with a search bar and sorting section.

b) **Screenshot:**





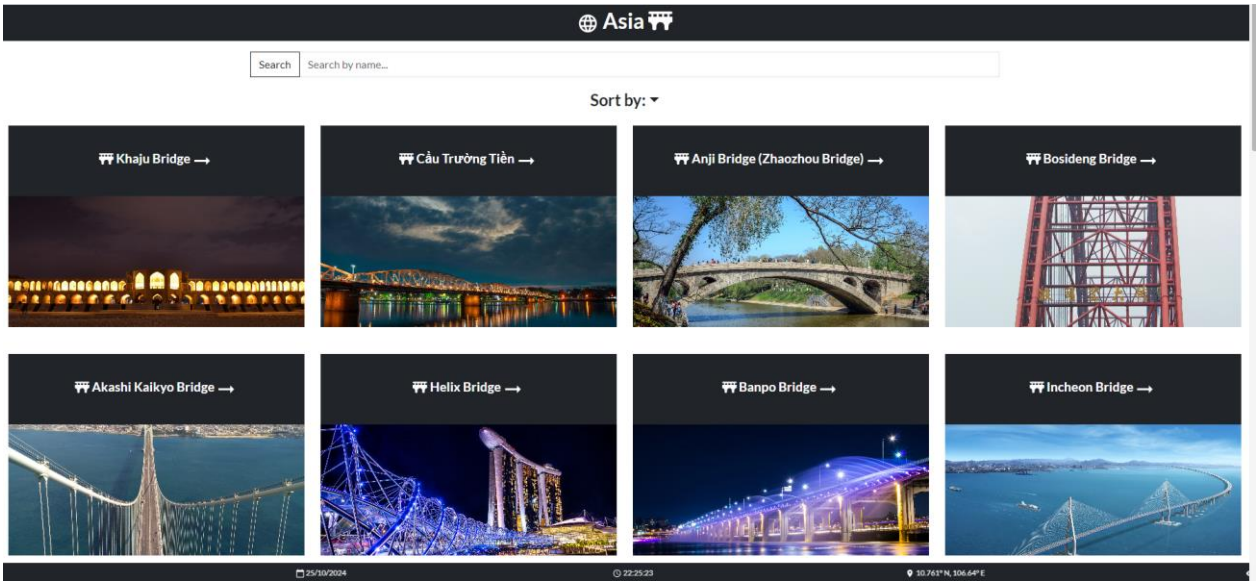
5. Continent Filter

a) **Description:** This section categorizes bridges by continents:

- Asia
- Europe
- Africa
- North America
- South America
- Oceania

When clicked, it will illustrate the bridges with a search bar and sorting section.

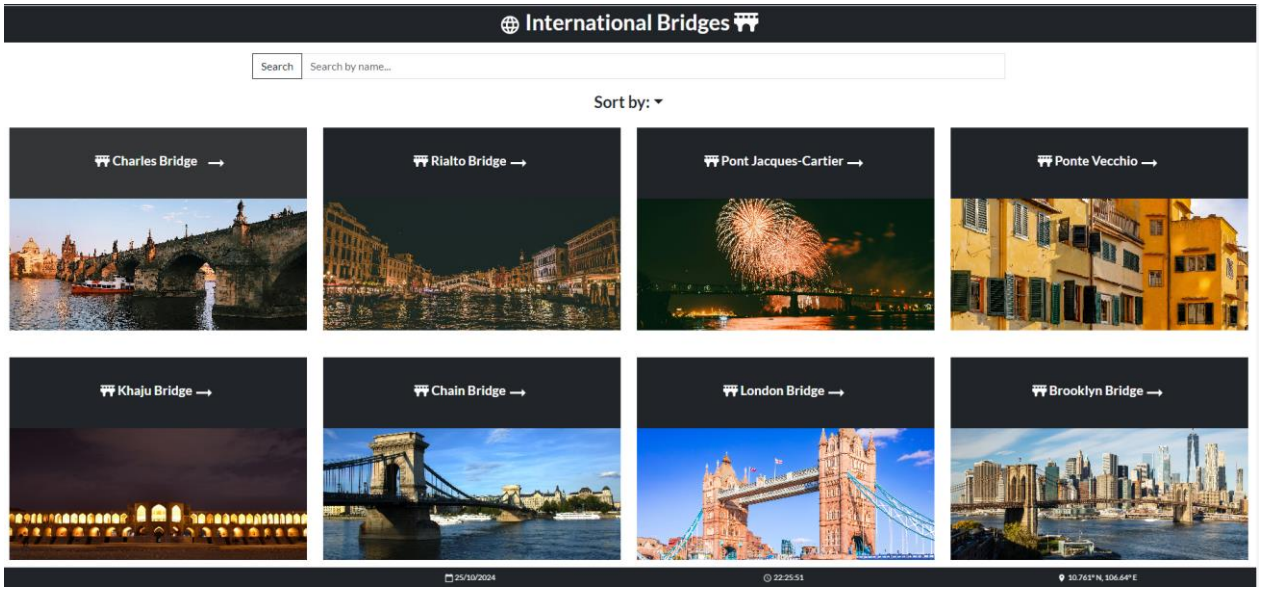
b) **Screenshot:**



6. List of Bridges

a) **Description:** This section illustrates all the bridges with a search bar and sorting function.

b) **Screenshot:**

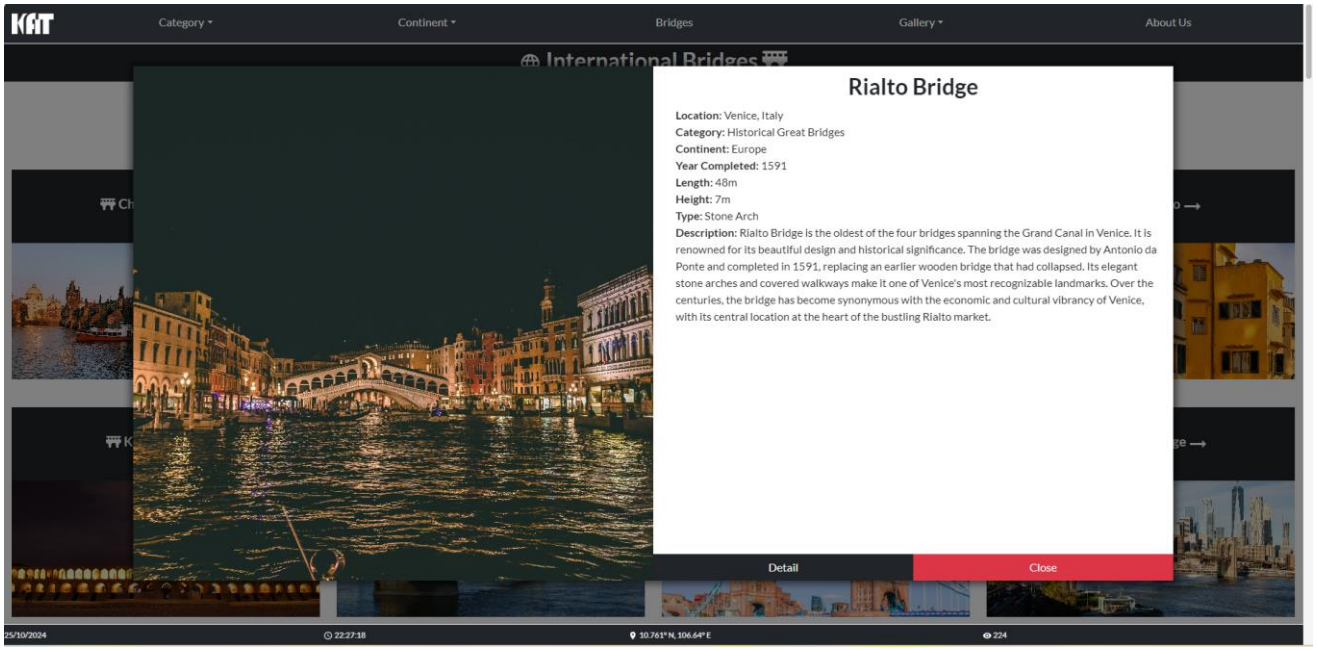


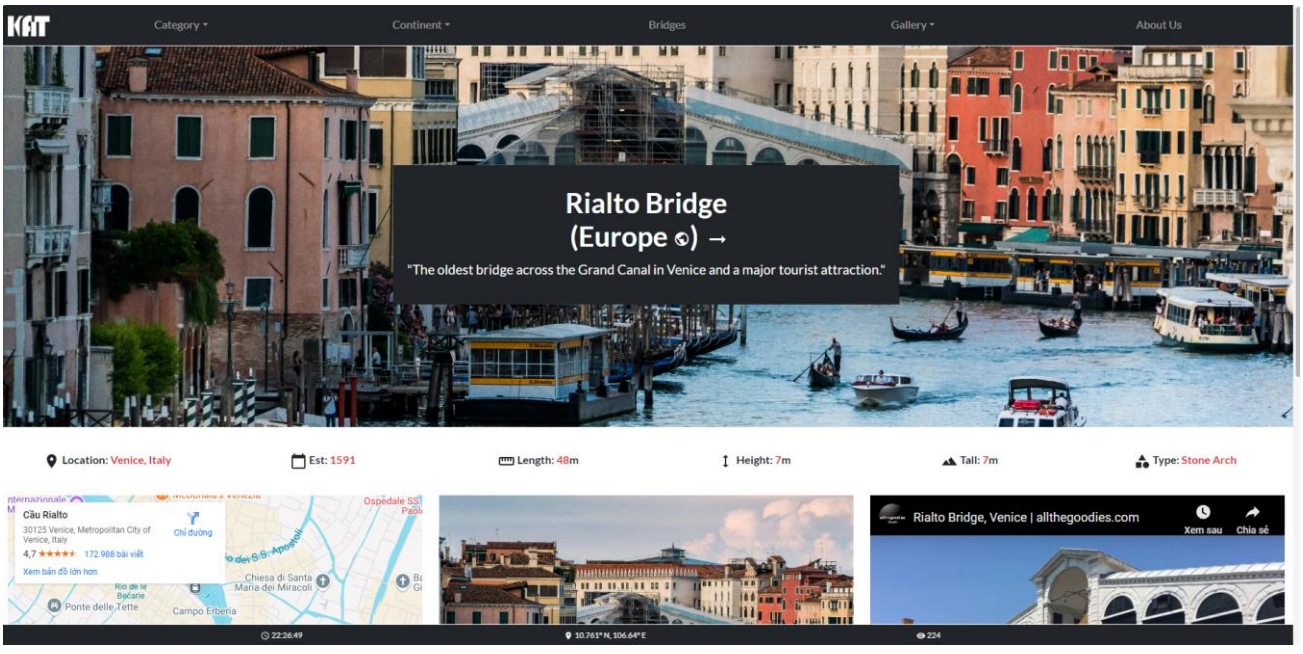
7. Each Bridge Detail

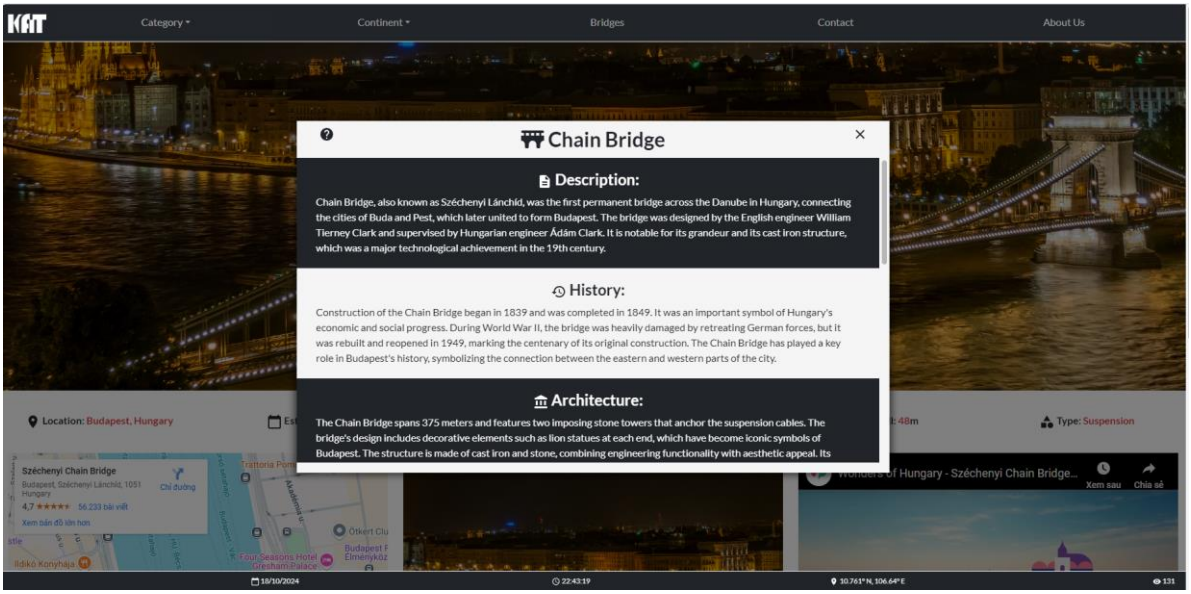
a) **Description:** When clicking on the name of the bridge on the card, a general overview of the bridge will pop up. The customer will have two options to proceed further:

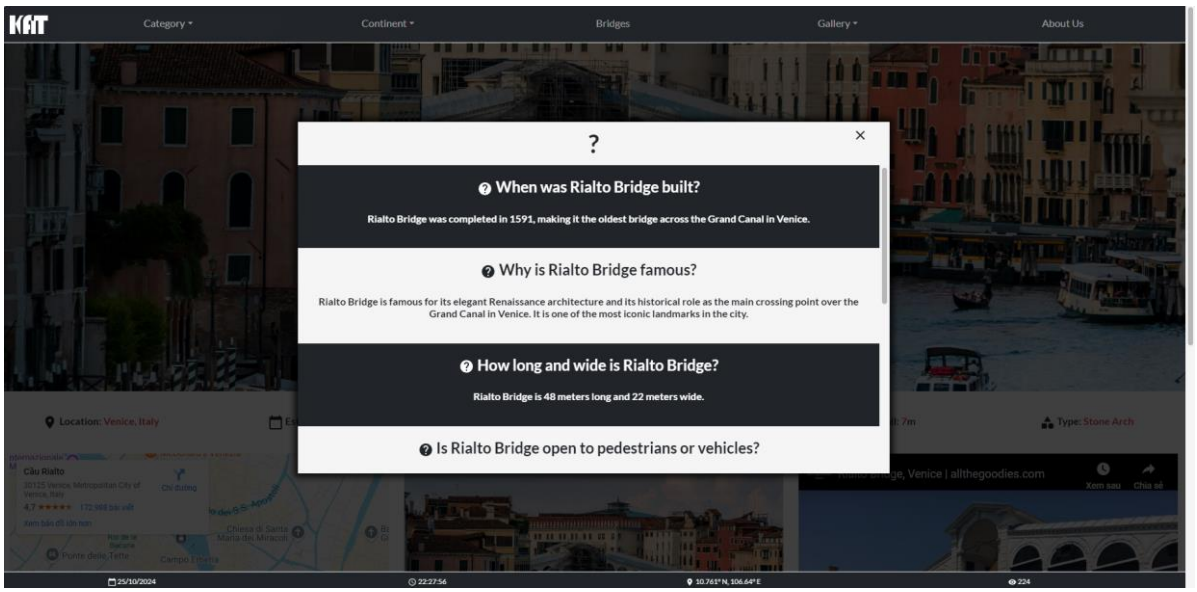
- Clicking on the 'Detail' button will take the user to another page with detailed information about the bridge (height, length, location, continent, map, video, gallery, etc.).
- Clicking on the bridge's name or summary on the detail page will open a modal with comprehensive information about the bridge.
- Clicking on the question mark icon on the left side of the modal will show another modal with frequently asked questions (FAQ) related to the bridge.

b) **Screenshot:**





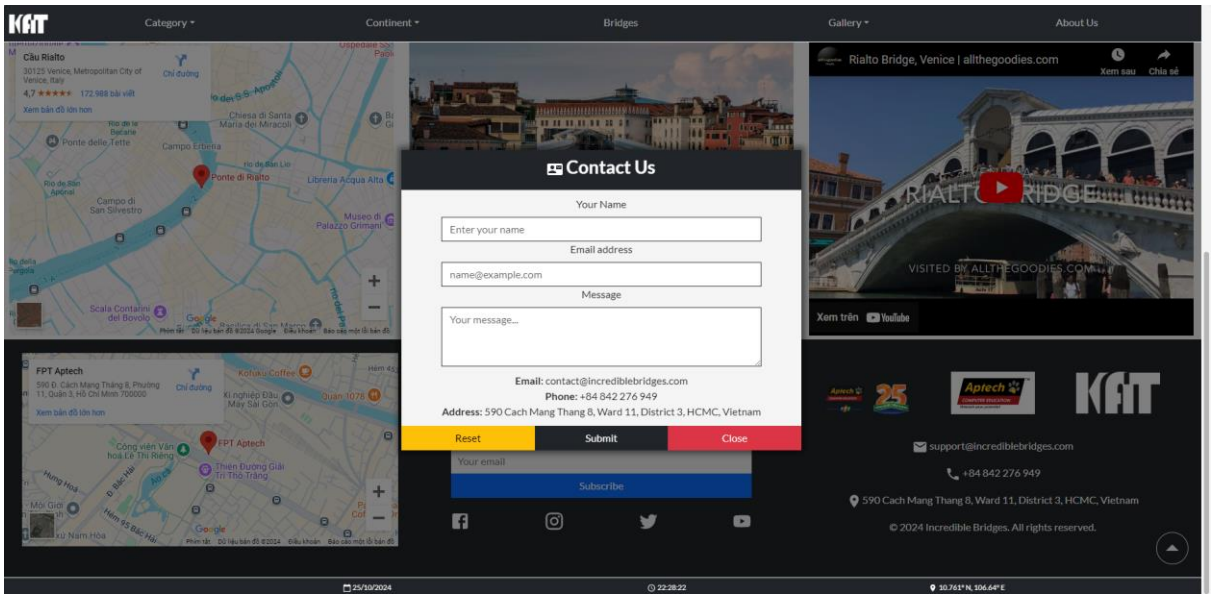




8. Contact

a) **Description:** The contact section will pop up a form for the customer to input their information for us to contact them.

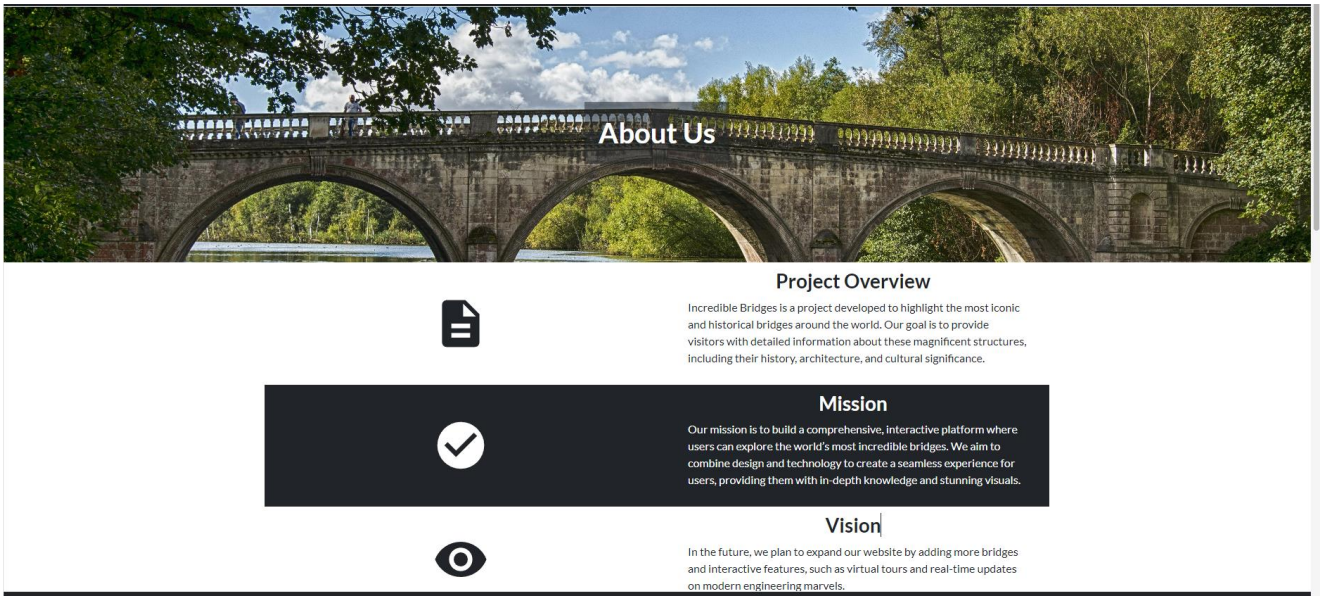
b) **Screenshot:**



9. About Us

a) **Description:** Incredible Bridges showcases the world's most iconic and historical bridges. Our mission is to provide an interactive platform where users can explore detailed information about these structures, including their history, architecture, and cultural significance. Led by Nguyễn Minh Thức, with Ngô Tuấn Anh handling research and Bùi Anh Khoa designing the user interface, we aim to deliver a seamless experience. Contact us at contact@incrediblebridges.com or visit us at 590 Cach Mang Thang 8, District 3, HCMC.

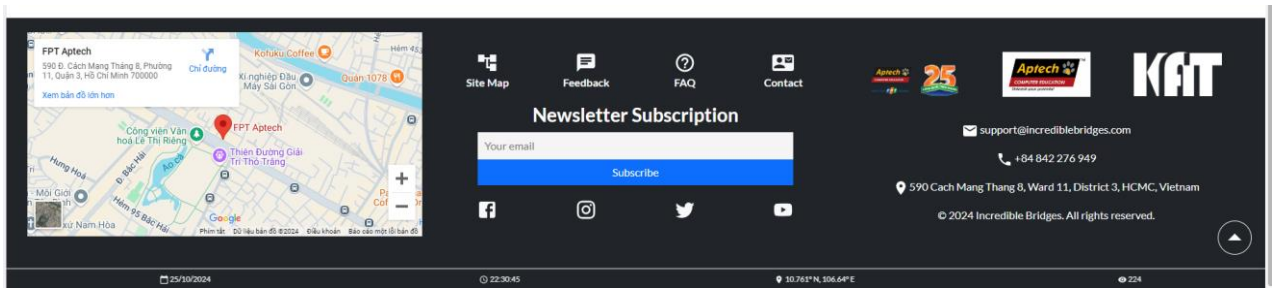
b) **Screenshot:**

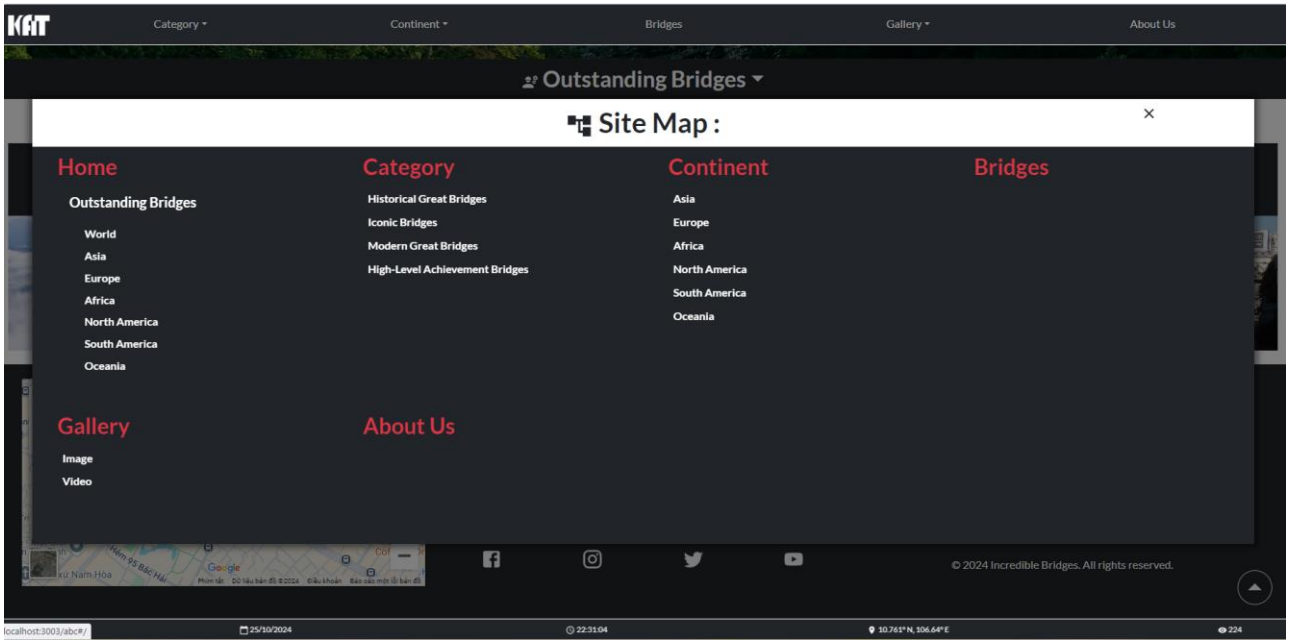


10. Footer

a) **Description:** More information about us, location, along with a site map, FAQ about the website, feedback section, newsletter subscription, links to our social media pages, links to FPT Aptech, and a Google Map showing our location.

b) **Screenshot:**




KAT
Category
Continent
Bridges
Gallery
About Us
Outstanding Bridges
Site Map :
Home
Outstanding Bridges
World
Asia
Europe
Africa
North America
South America
Oceania
Category
Historical Great Bridges
Iconic Bridges
Modern Great Bridges
High-Level Achievement Bridges
Continent
Asia
Europe
Africa
North America
South America
Oceania
Bridges
Gallery
Image
Video
About Us
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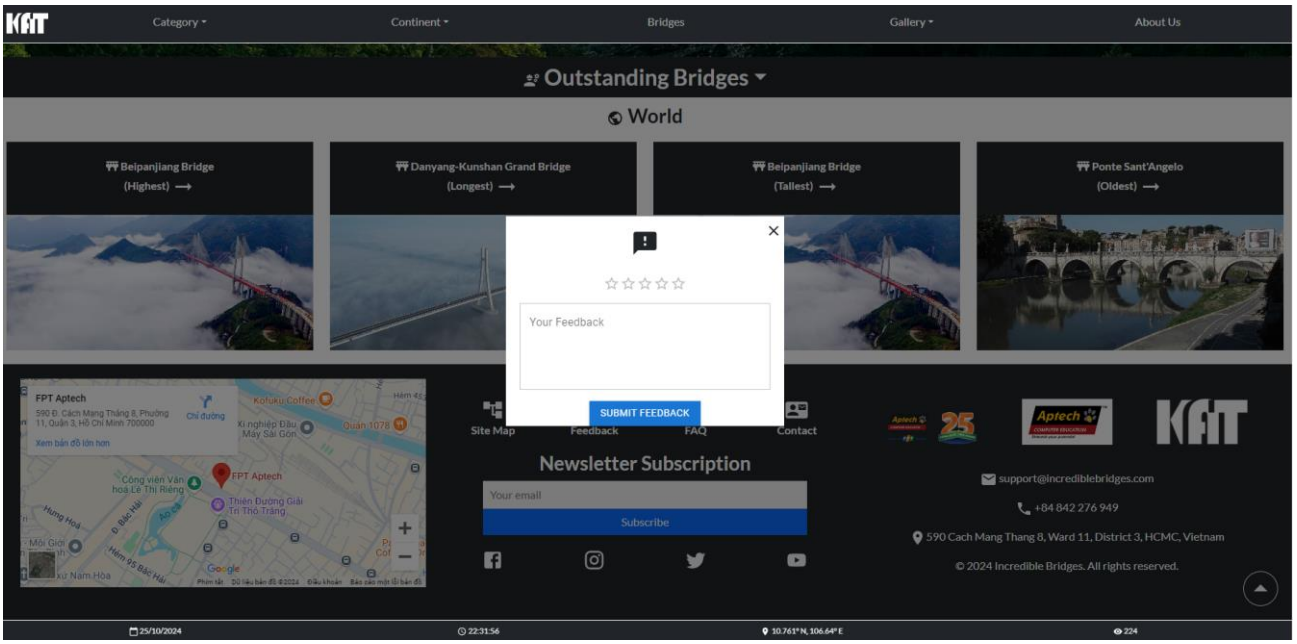
KAT
Category
Continent
Bridges
Gallery
About Us
Outstanding Bridges
World
Beipanjiang Bridge
(Highest)
Danyang-Kunshan Grand Bridge
(Longest)
Beipanjiang Bridge
(Tallest)
Ponte Sant'Angelo
(Oldest)
Your Feedback
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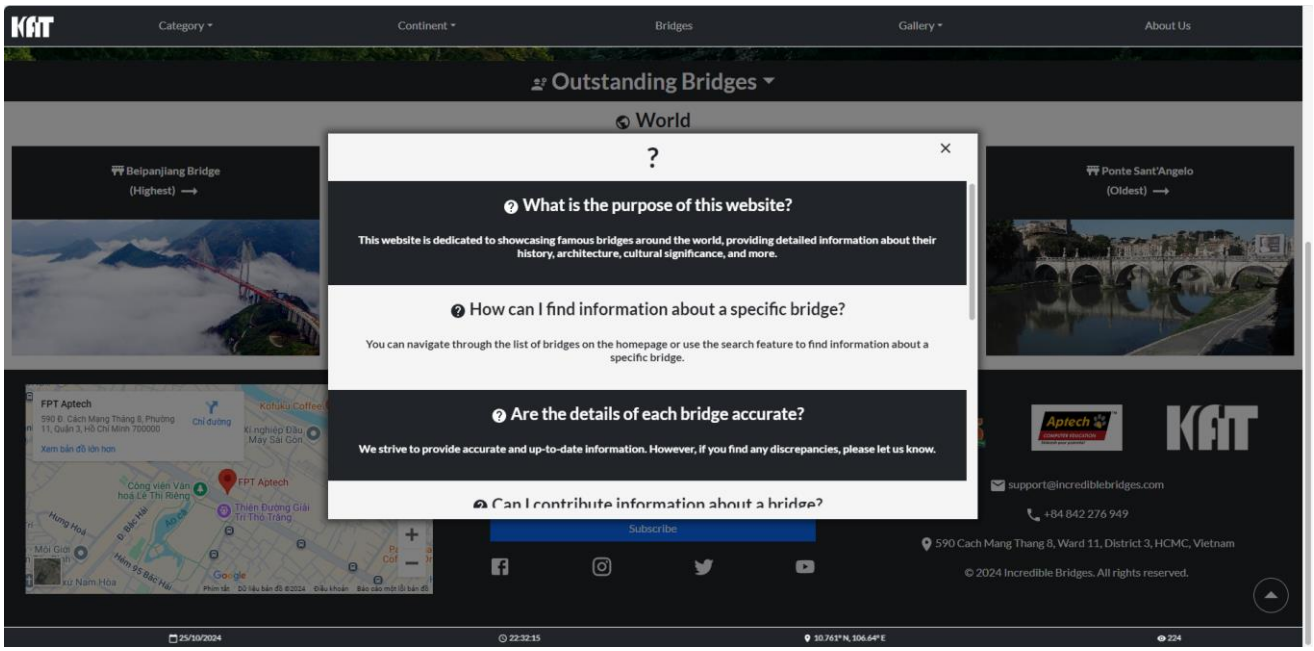
KAT
Category
Continent
Bridges
Gallery
About Us
Outstanding Bridges
World
Beipanjiang Bridge
(Highest)
Ponte Sant'Angelo
(Oldest)
?
What is the purpose of this website?
This website is dedicated to showcasing famous bridges around the world, providing detailed information about their history, architecture, cultural significance, and more.
How can I find information about a specific bridge?
You can navigate through the list of bridges on the homepage or use the search feature to find information about a specific bridge.
Are the details of each bridge accurate?
We strive to provide accurate and up-to-date information. However, if you find any discrepancies, please let us know.
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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	Incredible bridges	Thuc	05/10/24	3	Thức	Completed
2	Bridges						
3	Continent						
4	Category			08/10/24	3	Khoa	Completed
5	Contact						
6	About Us						
7	Feedback			11/10/24	3	Thức	Completed
8	FAQ						