

FPT ACADEMY INTERNATIONAL

FPT – APTECH COMPUTER EDUCATION

DOMAIN

Amazing Bridges Website

Development Guide

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Duration	Start date	01 Aug 2020	
	End date	01 Sep 2020	

This is to certify that

Mr.:

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has successfully designed & developed

eProject: Amazing Bridges Website

Submitted by:

Nguyen Dong Thanh Quang

Date of issue: _____ 1 Aug 2020

Authorized Signature:

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Acknowledgement

The thirst for learning, upgrading technical skills and applying the concepts in real life environment at a fast pace is what the industry demands from IT professionals today. However busy work schedules, far-flung locations, unavailability of convenient time-slots pose as major barriers when it comes to applying the concepts into realism. And hence the need to look out for alternative means of implementation in the form of ladder approach.

We think eproject is a very new way of learning for students. It helps students have more practical experience and more learning. Eproject helps students develop more skills than just IT knowledge. We think this is the fastest way to be successful in the future.

In the process we encountered a lot of problems and errors but eproject is a team work so it is a great motivation for us to try and pass and not give up. Especially eproject is one of the great ways we can learn and access complex, complex tasks in the future.

Eproject helps us revise all the learned knowledge in a real way and make a great connection to our team members and trainers.

So what is this eProject?

eProject is a step-by-step learning environment that closely simulates the classroom and Lab based learning environment into actual implementation. It is a project implementation at your fingertips!! An electronic, live juncture on the machine that allows you to

- Practice step by step i.e. ladder approach.
- Build a larger more robust application.
- Usage of certain utilities in applications designed by user.
- Single program to unified code leading to a complete application.
- Learn implementation of concepts in a phased manner.
- Enhance skills and add value.
- Work on real life projects.
- Give a real life scenario and help to create applications more complicated and useful.
- Mentoring through email support.

Finally, thanks to Aptech's eProject assignment, we had a golden opportunity to apply what we have learnt into reality and gain hands-on experience which is essential for our future career. And thanks to my Instructor Mr. Ngo Phuoc Nguyen again, he had helped us so much.

Synopsis

Amazing Bridges website will present the information about the various famous bridges throughout the world. The information behind this creation must be added. The information of amazing bridges can be categorized based on zone wise (Longest, Tallest, Highest, Oldest etc.).

We are supposed to create a website with the below mentioned requirement specifications.

The website is to be developed for the Windows Platform using HTML5, JavaScript and Geolocation. The site should work well in all leading browsers including Chrome, IE, Firefox etc.

Problem Statement

Requirement Specification:

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 famous bridges.
- 2) The site must contain the links to navigate through any category for the information.
- 3) Links of monuments can be categorized by zone wise like (Longest, Tallest, Highest, Oldest etc.) apart from country wise link can be added.
- 4) Clicking on any monument should open the page about the monument with it's location displayed using GeoLocation API on the maps.
- 5) History and information of the bridges can be added along with the images.
- 6) Gallery section can be added for viewing different images.
- 7) Feedback must be allowed to enter by the viewer
- 8) Site map, Gallery, about us, Queries link, Contact us link must be added.
- 9) The complete historic reason and its description must be allowed to get download as pdf or doc file.
- 10) The advertise section of bus, flights can be included for reaching the places.

After reading the requirements from Amazing Bridges Website, we came to conclusion that in order to achieve the best result and help user have more interest experiences, we should deal with following queries:

1. The Home Page must be attractive to visitors.
2. Defines the elements of the menu bar.
3. We must discuss, should we create a multi-pages or 1-page website?
4. The images of bridges must be clear and the information about them must be in sync.
5. User can write feedback about the bridges and notify us when the website has errors.

Additionally, the website will be built to run efficiently on Window OS and Mac OS platform. However, it still can be compatible on all leading web browsers such as Chrome, IE and Firefox. We make use of HTML5, Bootstrap, JQuery, and AngularJs to create a website that both runs smoothly and has a friendly UI.

Hardware/ Software Requirements

❖ For webmaster

Hardware

- Intel Core I7-6600U
- 8 Gigabytes of RAM

Software

- Windows 10 Pro.
- Visual Studio Code.
- HTML5, Javascript, CSS3 and Bootstrap 4 supporting web browsers such as IE, Chrome or Firefox

❖ For web users

Hardware

- Intel Pentium 4 processor or higher
- 512 Megabytes of RAM or higher

Software

- Windows XP OS or higher or Mac OS
- HTML5 and Javascript supporting web browsers such as IE, Chrome or Firefox

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 (AMAZING BRIDGES on the left)**: Display a short paragraph of information about four beautiful bridges, and some amazing effect.
2. **Amazing Bridges**: Display a catalogue of the amazing bridges in the world according to Show Highest Bridges, Tallest Bridges, Oldest Bridges, Longest Bridges,...
3. **Booking**: Provide detail about flights, example schedule and date time.
4. **Our Team**: Display a list of 4 members develop team.
5. **Contact Us**: Allow customers to request any information they want to Amazing Bridges Website.

Architecture and design of the system

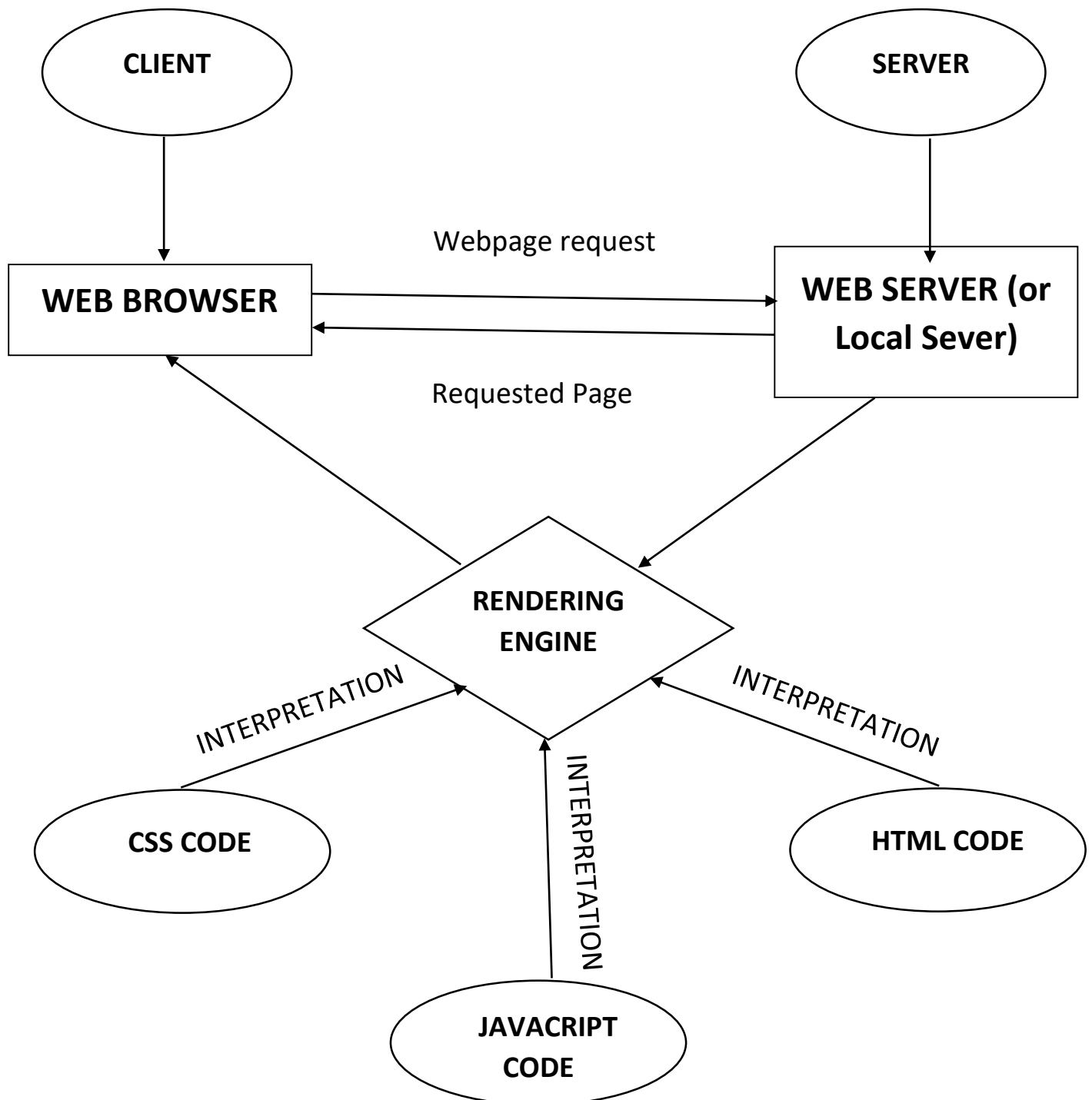
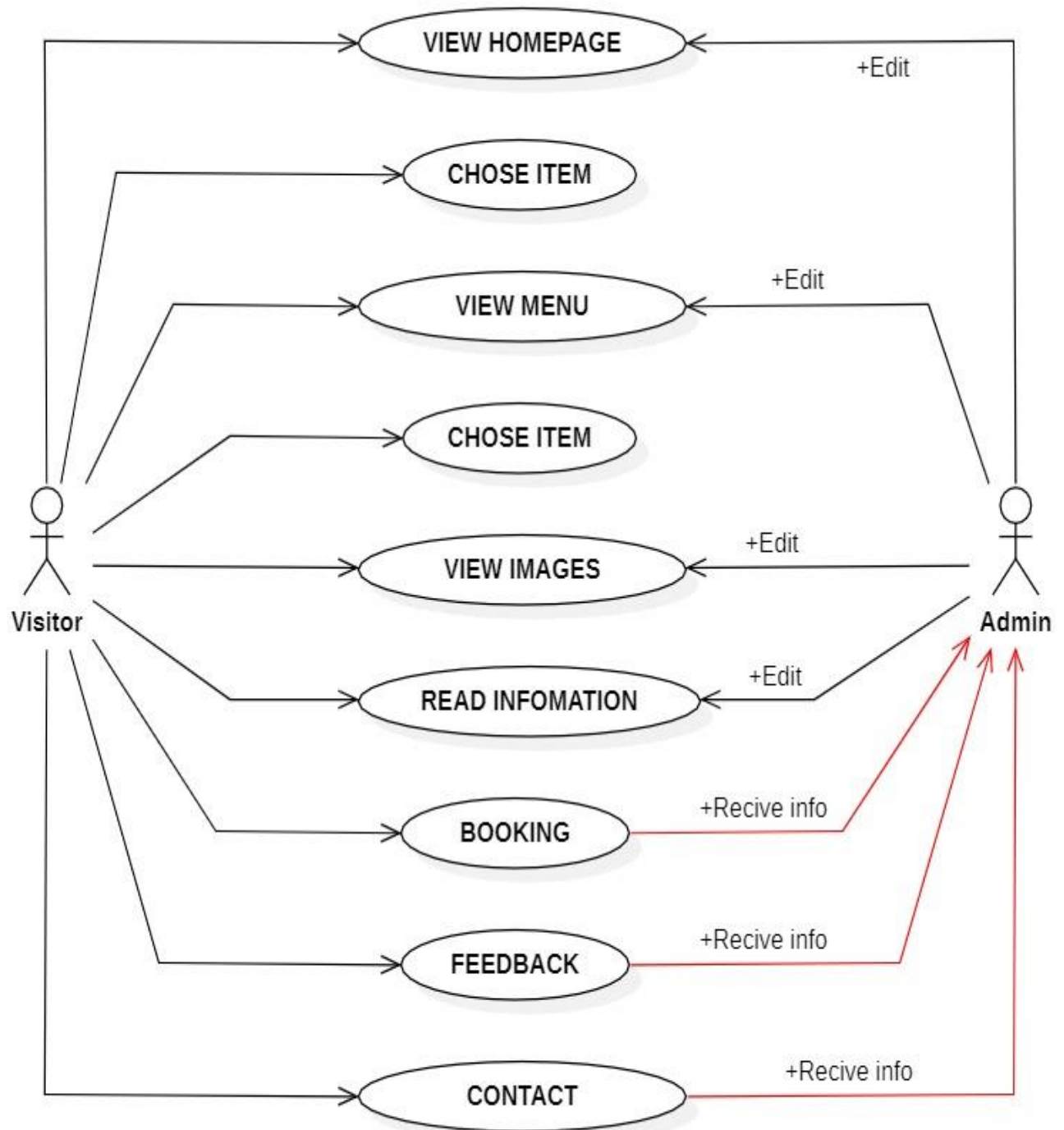
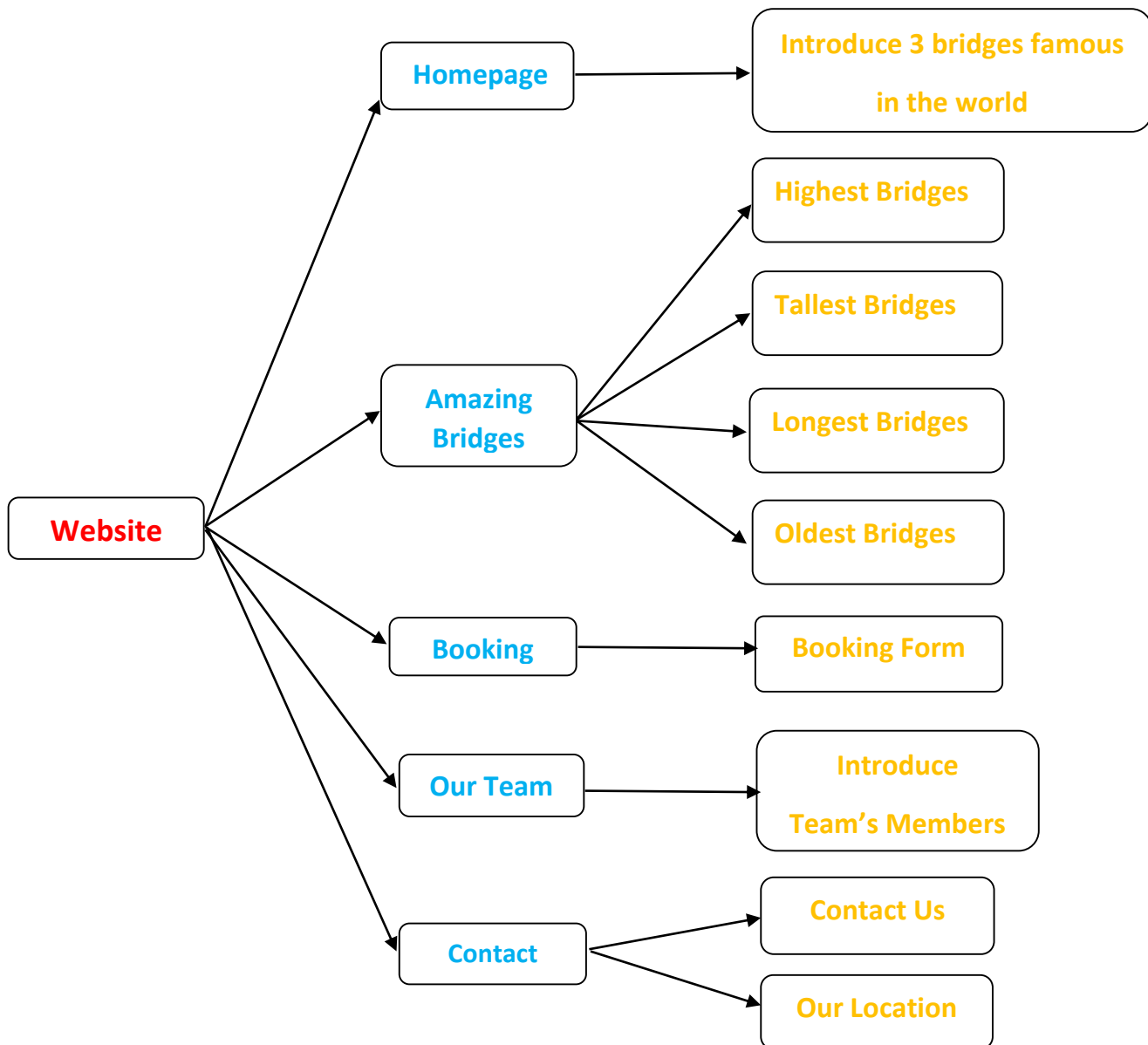


Diagram of the website

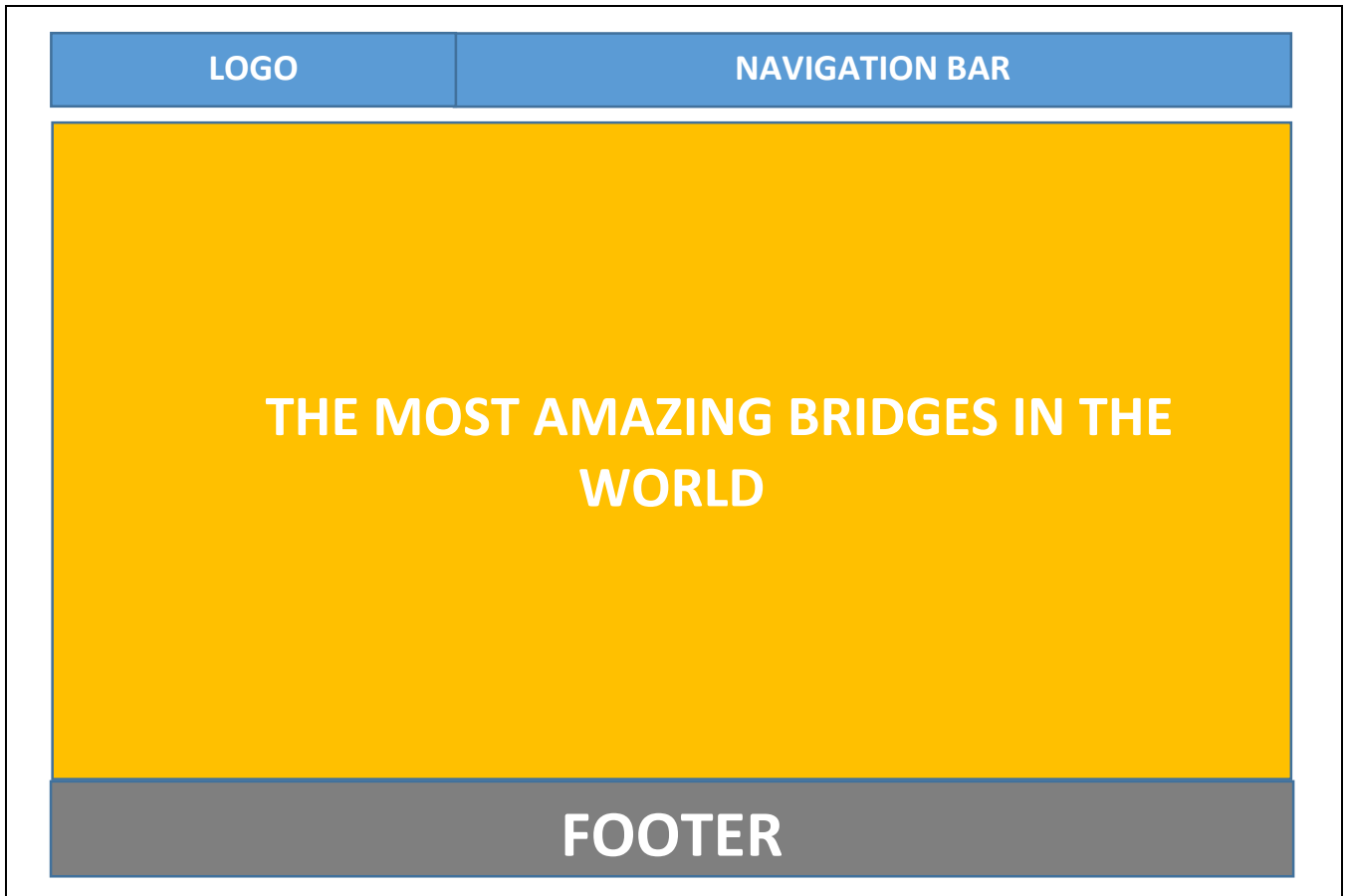


SITE MAP

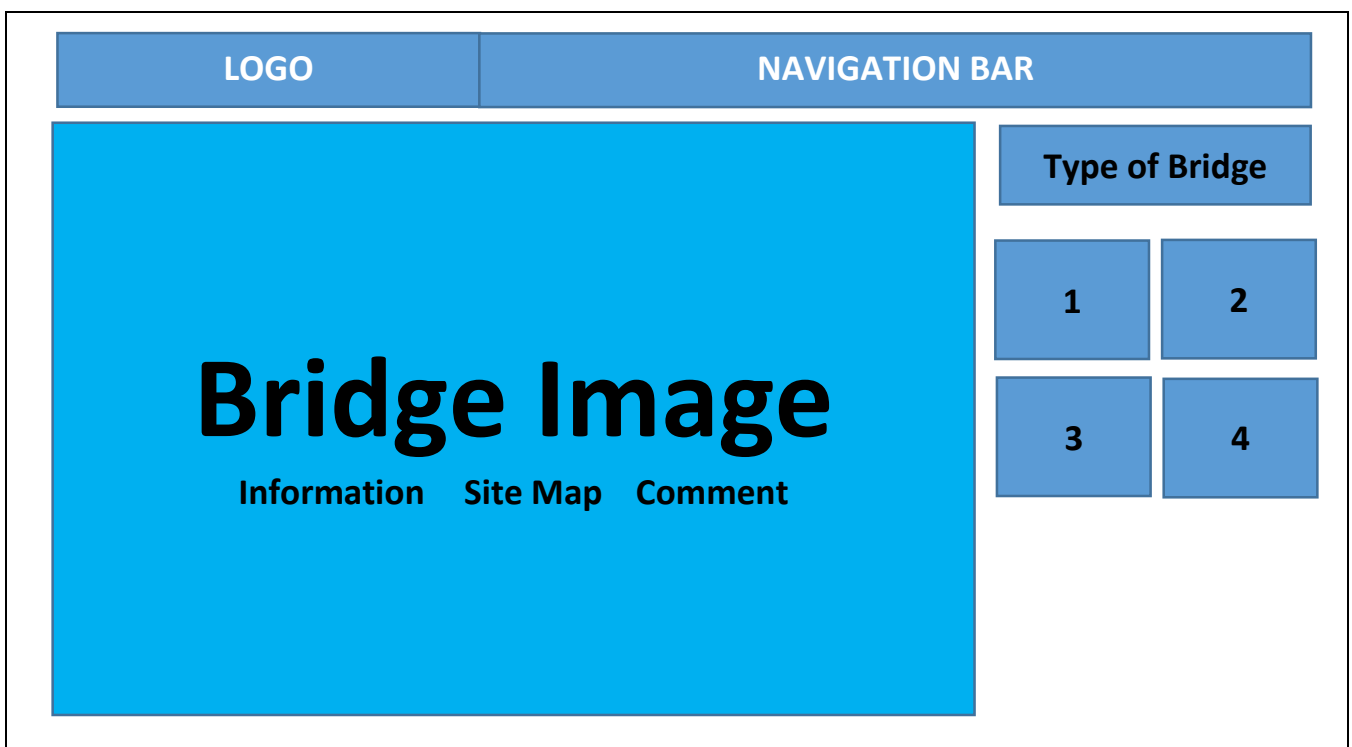


Mock of the website

1. Homepage



2. Amazing Bridges



3. Booking form

Booking form

4. Our team

LOGO

NAVIGATION BAR

OUR TEAM

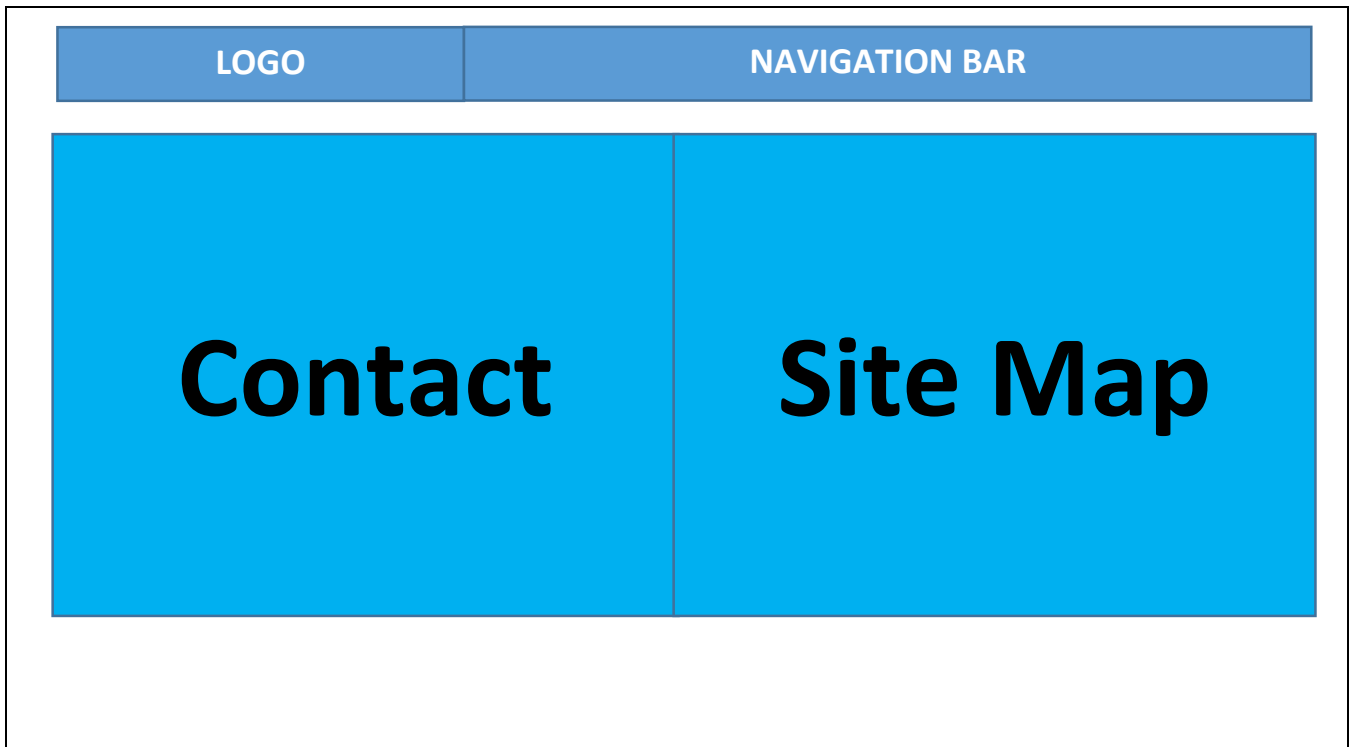
Member
Image

Member
Image

Member
Image

Member
Image

5. Contact Us



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	Amazing Bridges	Hien	10/8/2020	1	Hien	Completed
2	Mock of the website			10/8/2020	1	Hien	Completed
3	Task sheet			10/8/2020	1	Hien	Completed

[illegible]

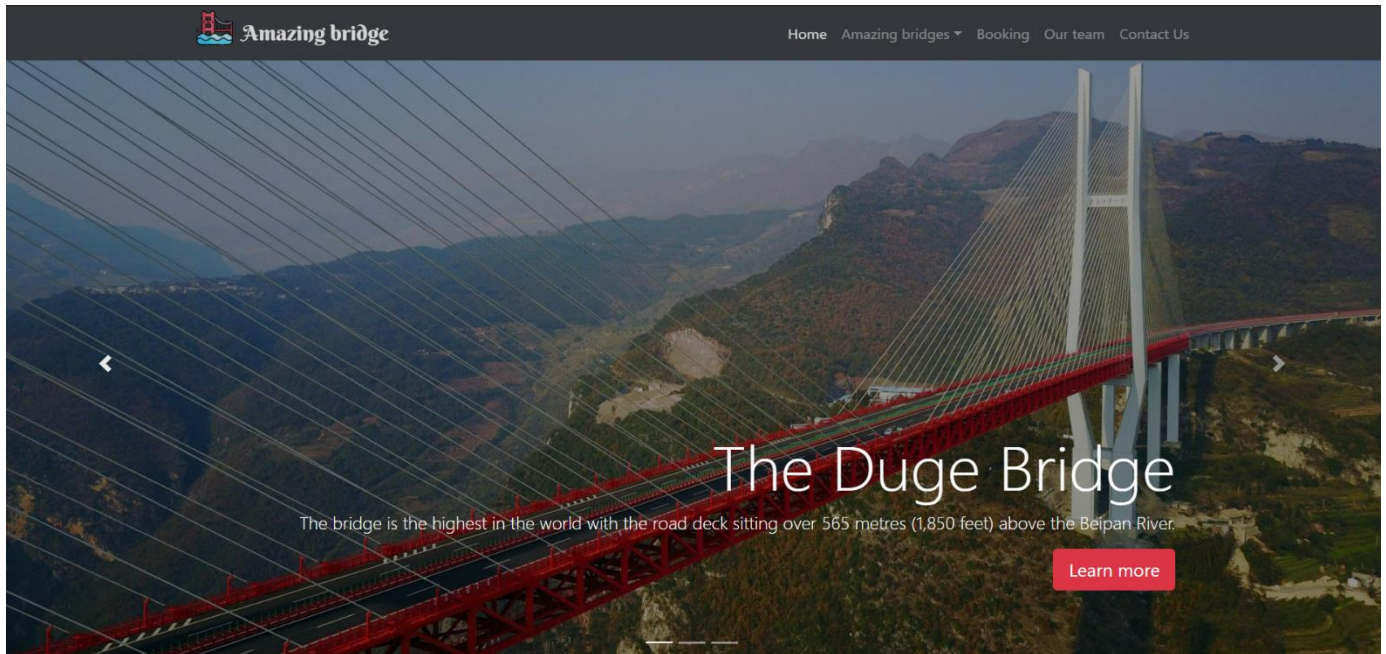
WEBSITE DESCRIPTION

1. Home page (Amazing Bridges on the left)

a) Description

We provide 4 top kind of bridges with smooth effects.

b) Snapshot

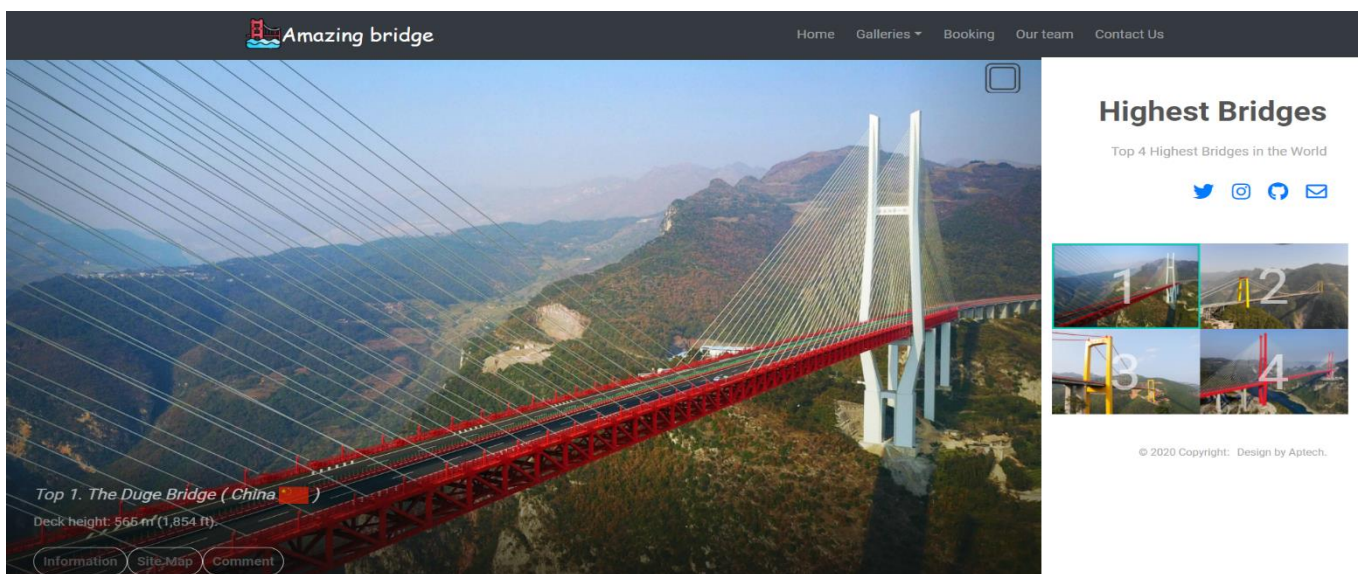


2. Amazing Bridges

a) Description

This is a place for content about the most amazing bridges in the world. We provided 4 bridges in each type and User can see each kind by click on link they want to see.

b) Snapshot



4. Booking

a) Description

If visitor want to travel or visit the bridges they like they can find some Flights or Bus near the bridges.

b) Snapshot

Amazing bridge

Home Galleries Booking Our team Contact Us

Booking Form

Name Your traffic type

Email Departure Date

Telephone Number Arrival Date

Your location Ticket

[Book Now](#)

Amazing Bridge
Beauty, Charm, And Adventure

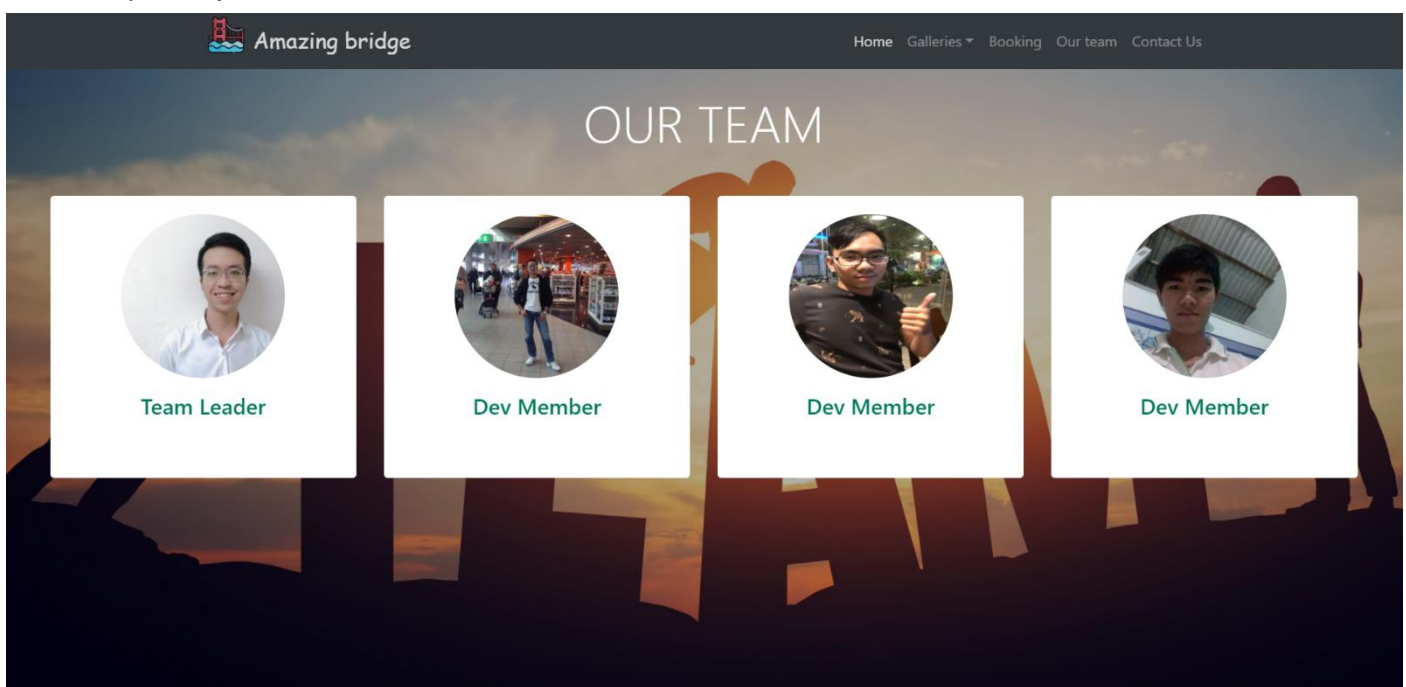
Visit the World's Longest Bridges

5. Team

a) Description

We always support user fastest if we can , so user can contact with any member develop team here. Everyone can contact us by phone number and email.

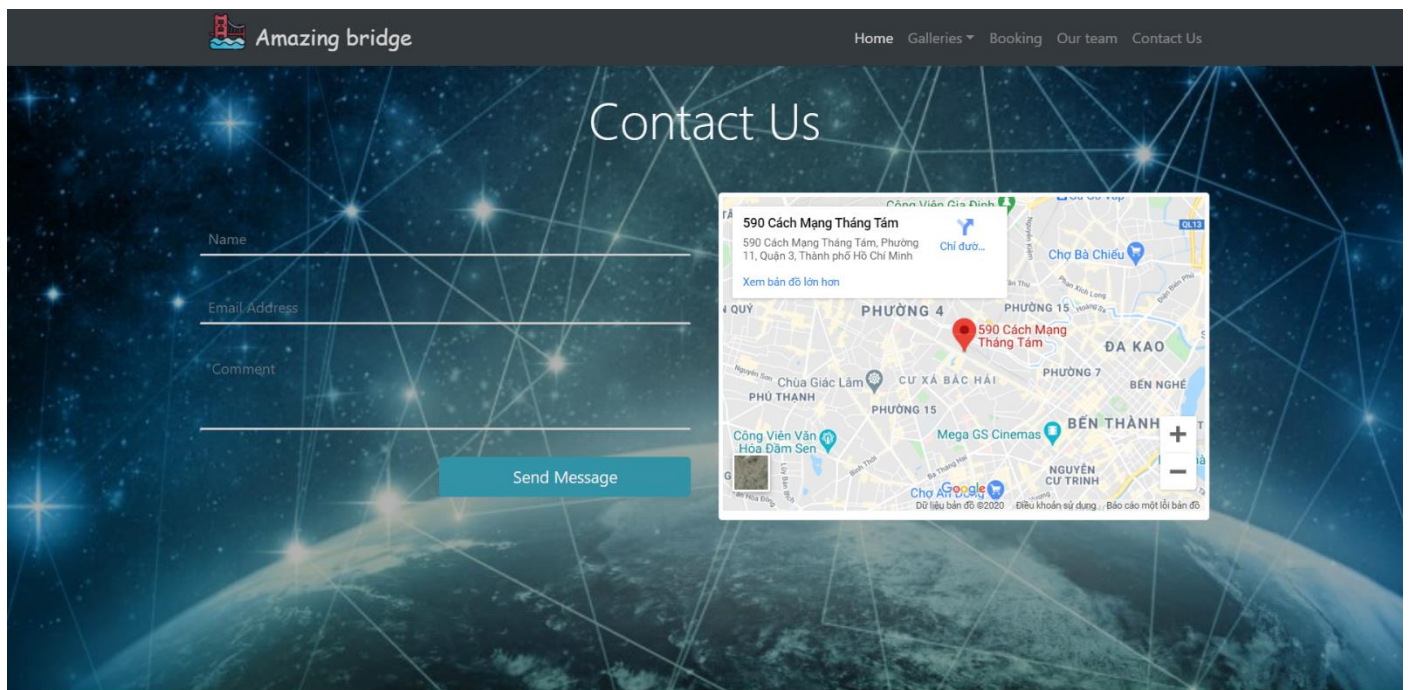
b) Snapshot



6. Contact

a) Description

Contact form help people connect with by normal way if they found wrong or error on our website or they want to help us with new idea or anything else...

b) Snapshot

JAVASCRIPT DESCRIPTION

This chapter will provide information about JavaScript function integrated in the website

1. Slide

a) Description

We just use carousel for slide function. In the second snapshot that is the time next picture appear.

b) Screenshot

```

244 <!--Carousel-->
245 <section id="Showcase">
246   <div id="myCarousel" class="carousel slide carousel-fade" data-ride="carousel" data-interval="5000">
247     <!--Speed handler-->
248     <ol class="carousel-indicators">
249       <li data-target="#myCarousel" data-slide-to="0" class="active"></li>
250       <li data-target="#myCarousel" data-slide-to="1"></li>
251       <li data-target="#myCarousel" data-slide-to="2"></li>
252     </ol>
253     <div class="carousel-inner">
254       <div class="carousel-item carousel-image-1 active">
255         <div class="container">
256           <div class="carousel-caption d-none d-sm-block text-right mb-5">
257             <h1 class="display-3">The Duge Bridge</h1>
258             <p class="lead">The bridge is the highest in the world with the road deck sitting over 565 metres (1,850 feet
259             <a href="Highest.html" class="btn btn-danger btn-lg">Learn more</a>
260           </div>
261         </div>
262       </div>
263       <div class="carousel-item carousel-image-2">
264         <div class="container">
265           <div class="carousel-caption d-none d-sm-block text-right mb-5">
266             <h1 class="display-3">The Millau Viaduct</h1>
267             <p class="lead">As of July 2020, it is the tallest bridge in the world, having a structural height of 336.4 m
268             <a href="tallest03.html" class="btn btn-primary btn-lg">Learn More</a>
269           </div>
270         </div>
271       </div>
272       <div class="carousel-item carousel-image-3">
273         <div class="container">
274           <div class="carousel-caption d-none d-sm-block text-right mb-5">
275             <h1 class="display-3">The Pont du Gard Bridge</h1>
276             <p class="lead">Lorem ipsum, dolor sit amet consectetur adipisicing elit. Dignissimos dicta rerum dolor ipsam
277             <a href="oldest.html" class="btn btn-success btn-lg">Learn More</a>
278           </div>
279         </div>
280       </div>

```

2. Effect On Images At Amazing Bridges Section

a) Description

We want the User to be able to see the clearest images, so we use some code jquery for that.

b) Screenshot

```
<!-- Thumbnail -->
<!-- Top 1 -->
<section id="thumbnails">
  <article>
    <a class="thumbnail" href="images/highest/Full/highest.jpg" data-position="left center">
      <h1 class="text">1</h1></a>
      <h2 class="title-top">Top 1. The Duge Bridge - Millau ( China  )</h2>
      <p class="less-cont">Deck height: 565 m (1,854 ft).</p>
      <button id="btn1">Information</button>
      <div id="info">
        <ul class="detail-info">
          <li>The Millau Viaduct (French: Viaduc de Millau) is a multi-span cable-stayed bridge completed in 2004 across the gorge valley of the Tarn near Millau i
            structural engineer Michel Virlogeux and English architect Norman Foster.</li><br>
          <li>As of July 2020, it is the tallest bridge in the world, having a structural height of 336.4 metres (1,104 ft).</li><br>
          <li>The cost of construction was approximately € 394 million ($ 424 million).</li><br>
          <li>It was built over three years, formally inaugurated on 14 December 2004 and opened to traffic two days later on 16 December.</li><br>
          <li>The bridge has been consistently ranked as one of the greatest engineering achievements of all time, and received the 2006 Outstanding Structure Award
        </ul>
      </div>
      <button id="btn2">Site Map</button>
      <div id="sitemap">
        <div class="mapouter">
          <div class="gmap_canvas"><iframe width="500" height="400" id="gmap_canvas" src="https://maps.google.com/maps?q=millau%20viaduct&t=&z=13&ie=UTF8&iwloc=&out
        </div>
      </div>
      <button id="btn3">Comment</button>
      <div id="feed">
        <form method="post" action="" onsubmit="return validateFeedback()">
          <textarea class="comment" rows="10" cols="20" placeholder="Enter Comment" onclick="this.value = '' required"></textarea>
          <button class="button-enter" value="submit">Enter</button>
        </form>
      </div>
    </article>
  </section>
```

```
initEvents: function() {

  // Window.

  // Remove is-preload-* classes on load.
  _.$window.on('load', function() {

    _.$body.removeClass('is-preload-0');

    window.setTimeout(function() {
      _.$body.removeClass('is-preload-1');
    }, 100);

    window.setTimeout(function() {
      _.$body.removeClass('is-preload-2');
    }, 100 + Math.max(_.$settings.layoutDuration - 150,

  ));

  // Disable animations/transitions on resize.
  var resizeTimeout;

  _.$window.on('resize', function() {

    _.$body.addClass('is-preload-0');
    window.clearTimeout(resizeTimeout);

    resizeTimeout = window.setTimeout(function() {
      _.$body.removeClass('is-preload-0');
    }, 100);

  });

});
```

3. Hide/Show information, sitemap and feedback

a) Description

When user click on button on the images, they can see information, sitemap about the bridge they care, if they want to feedback they can write something and send this to us.

b) Screenshot

```
<button id="btn1">Information</button>
<div id="info">
  <ul class="detail-info">
    <li>The Millau Viaduct (French: Viaduc de Millau) is a multi-span cable-stayed bridge completed in 2004 across the gorge valley of the Tarn near Millau i
      structural engineer Michel Virlogeux and English architect Norman Foster.</li><br>
    <li>As of July 2020, it is the tallest bridge in the world, having a structural height of 336.4 metres (1,104 ft).</li><br>
    <li>The cost of construction was approximately € 394 million ($ 424 million).</li><br>
    <li>It was built over three years, formally inaugurated on 14 December 2004 and opened to traffic two days later on 16 December.</li><br>
    <li>The bridge has been consistently ranked as one of the greatest engineering achievements of all time, and received the 2006 Outstanding Structure Award
  </ul>
</div>
<button id="btn2">Site Map</button>
<div id="sitemap">
  <div class="mapouter">
    <div class="gmap_canvas"><iframe width="500" height="400" id="gmap_canvas" src="https://maps.google.com/maps?q=millau%20viaduct&t=&z=13&ie=UTF8&iwloc=&out
    </div>
  </div>
</div>
<button id="btn3">Comment</button>
<div id="feed">
  <form method="post" action="" onsubmit="return validateFeedback()">
    <textarea class="comment" rows="10" cols="20" placeholder="Enter Comment" onclick="this.value = ''" required></textarea>
    <button class="button-enter" value="submit">Enter</button>
  </form>
</div>
```

```
//-----info1-----
var btn1 = document.querySelector('#btn1');
var btn2 = document.querySelector('#btn2');
var btn3 = document.querySelector('#btn3');
var info = document.querySelector('#info');
var sitemp = document.querySelector('#sitemap');
var feback = document.querySelector('#feed');
document.querySelector('#sitemap').style.display = 'none';
document.querySelector('#feed').style.display = 'none';
document.querySelector('#info').style.display = 'none';
btn1.addEventListener('click', () => {
  if (info.style.display === 'none') {
    info.style.display = 'block';
    sitemp.style.display = 'none';
    feback.style.display = 'none';
  } else {
    info.style.display = 'none';
  }
})
btn2.addEventListener('click', () => {
  if (sitemp.style.display === 'none') {
    sitemp.style.display = 'block';
    info.style.display = 'none';
    feback.style.display = 'none';
  } else {
    sitemp.style.display = 'none';
  }
})
btn3.addEventListener('click', () => {
  if (feback.style.display === 'none') {
    feback.style.display = 'block';
    info.style.display = 'none';
    sitemp.style.display = 'none';
  } else {
    feback.style.display = 'none';
  }
})
```

TASK SHEET REVIEW 3

Project Ref. No: eP/Advertisement Portal Managament System/01		Project Title:	Activity Plan Prepared by:	Date of Preparation of activity plan			
Sr. No.	Task			Actual start date	Actu al days	Teammat e name	Status
1	Homepage	Amazing Bridges	T.Quang	1/8/2020 – 5/8/2020	4	V.Quang , Khanh	Completed
2	Galleries			1/8/2020 – 8/8/2012	7	T.Quang, Hien	Completed
3	Booking			7/8/2020 – 11/8/2020	4	V.Quang	Completed
4	Our Team			7/8/2020 – 10/8/2020	3	Khanh, V.Quang	Completed
5	Contact Us			12/8/2020 – 15/8/2020	3	V.Quang	Completed