
WEB APPLICATION DEVELOPMENT

Dream Park

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1 System Requirement Specification for Dream park Web Application.

1.1 Requirement Gathering.

First of all, to create this web application we should know what are the customers requirements and what requirements that we need to create this web application. In requirement gathering we have to collect number of key requirements using different fact-finding methods. The author used a questioner, refer similar websites and referring old recodes of the company.

1.1.1 Refer similar Websites.

As I said before by referring some similar websites, we can have some creative ideas to create our web application. And we can have many important information general scope, functional and nonfunctional requirements for the website that we are going to create. Here are some websites we use to refer.

- <https://www.wbworldabudhabi.com/> - UAE
- <https://www.rwsentosa.com/en/attractions/adventure-cove-waterpark> - Singapore
- <http://leisureworld.lk/> -Sri lanka

1.1.1.1 Warner Bros World

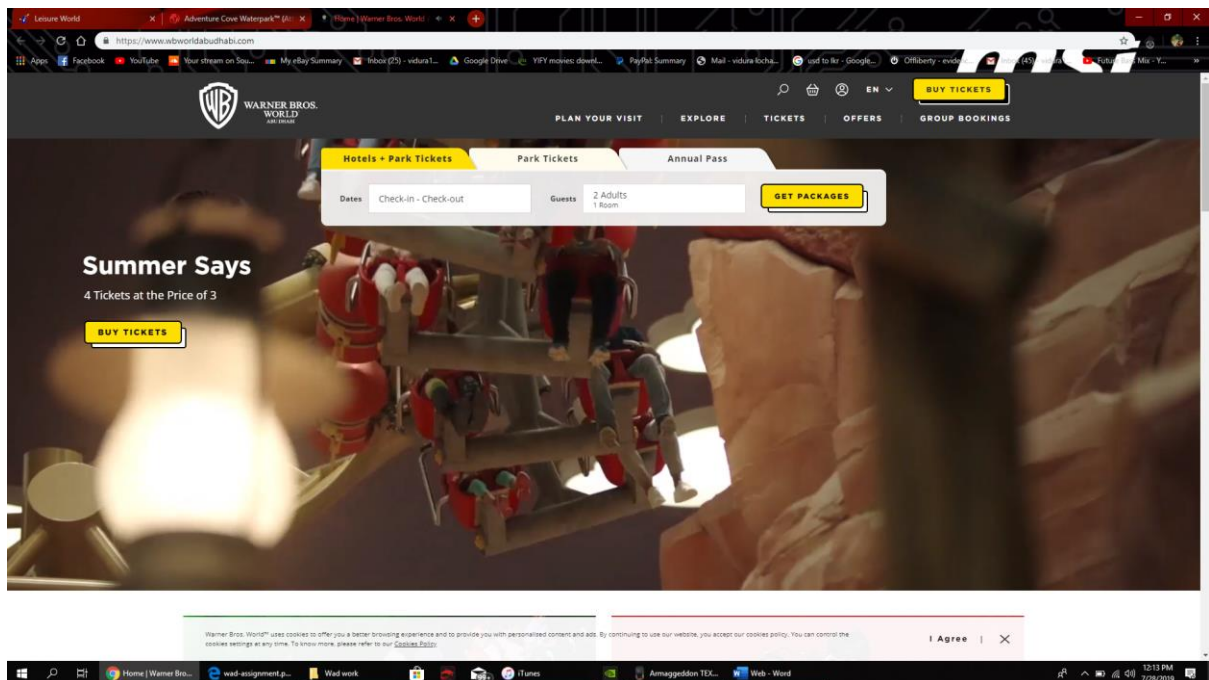


Figure 1 Warner Bros World

Web Application Development

This website is a fun park that based on DC comics and nowadays most of kids love comics. And is contains very attractive video playing on the homepage and in the homepage, customers can reserve their bookings. It has navigation panel search option and small description about the company. It has their own photo gallery and fun games categorized by comics characters. In booking section, the divide, it in to three parts. Hotel and park tickets, only park and annual pass. Also, they categorized those parts in to adults and children.

In this website user interface is very attractive and user friendly. They attached beautiful cartoon casts and video to the background and in the header section they attached about the park and customer support. Also, they have their own android and iOS mobile applications.

1.1.1.2 Resorts World at Sentosa

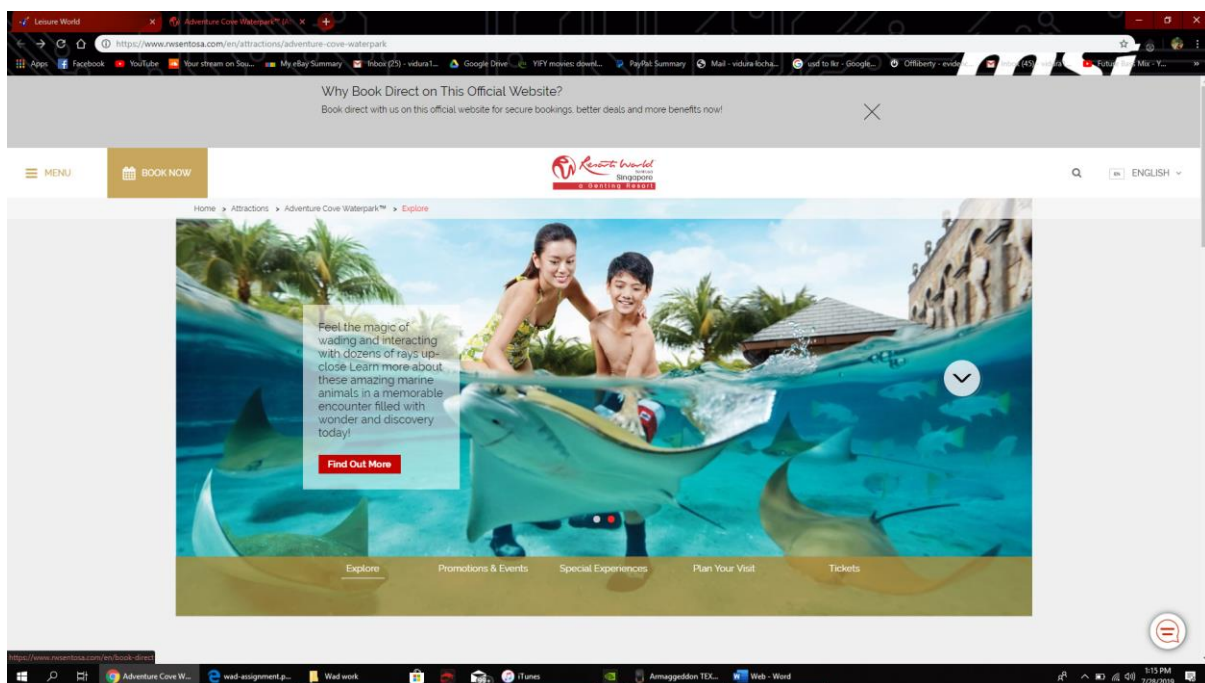


Figure 2 Resorts World at Sentosa

In this website when we open the webpage, we directly going to the booking page. There is another icon for Home page. This web site looks simple but not accretive like Warner brows web site. It contained user friendly interface also they have located their company on google maps. Also, it contains search, booking tab and about the company. This also contain navigation panel and in footer their FB links and Instagram page.

In this web site in home page they attached a slid show and they also have a photo gallery.

1.1.1.3 leisure world

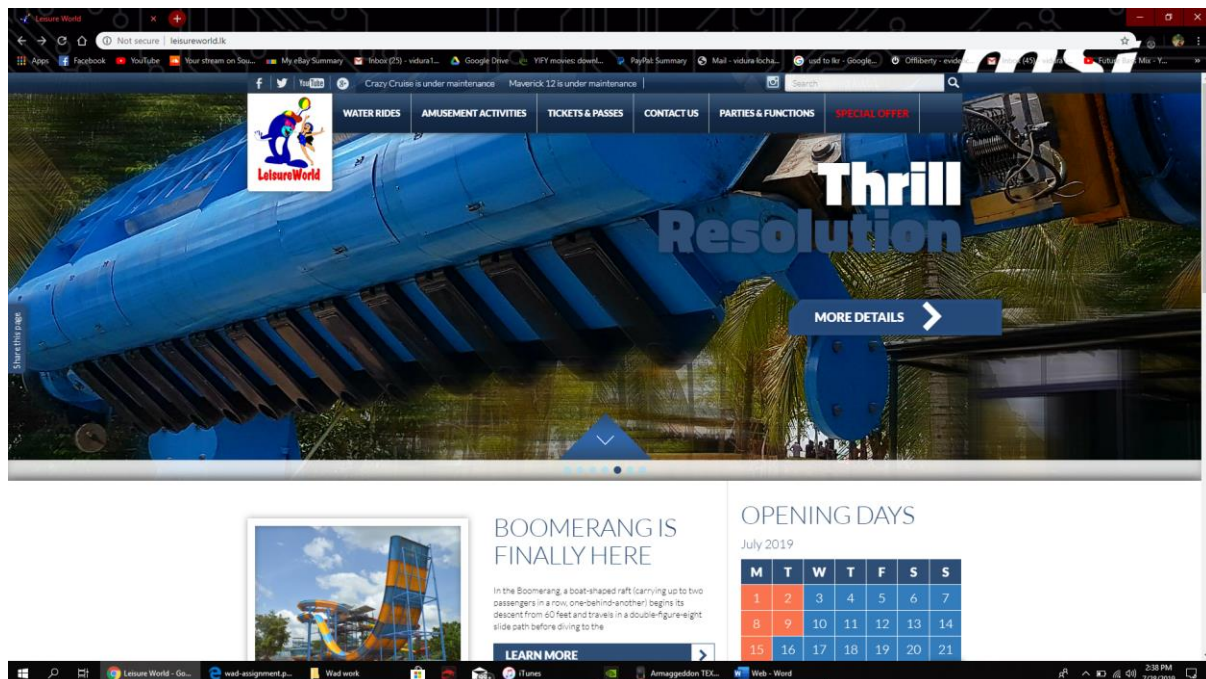


Figure 3 leisure world

This is local fun park which call leisure world located in Kaluaggala, Sri Lanka. This is a simple website just like Resorts World website. In here also booking comes first when we entering the web site. In this web site there is a small bug. It contains slid shows on the home screen it's working but, there is no left or right arrow heads to manually control the slide show. We can slide the image by tap the image and slide the mouse left or right but with arrow heads it will look nice and make easy to navigate. This website also contains navigation panel and those functions are working perfectly. Same as the other webs this also have about details and contact information.

From those three websites, Warner bros web site is the well maintained, prettiest and perfect website and to create our project web site we can get so many important information from those three web sites.

1.1.2 Evaluation of those three webs.

	Warner Bros World	Resorts World at Sentosa	leisure world
Navigation Bar	✓	✓	✓
Footer	✓	✓	✓
Search bar	✓	✓	✓
Customer Review	-	-	✓
Responsive to different screen sizes	✓	✓	✓

Table 1 Evaluation

1.1.3 Questioner

By questioner we gathered tons of information and we clearly understood the customer's requirements. Sometime when we ask the question customer can't explain fluently what he need. So, at that time any how we have to understand thing that he trying to explain us.

1.1.4 The scope of the Dream park web.

Web site is one of the most powerful marketing tools and management has decided to develop a web site for Dream Park to promote their business. By creating a web, management team can add their promotions to the web site. Also, customers can book tickets using we site also they can view photos and videos of the park before they visit. If they already visited dream park, they can add some feedback thru the web site. So, it's a big advantage to the management of the dream park.

1.1.5 Functional requirements of the web.

- Navigation bar

User can go to any page he want using navigation panel. Navigation bar is linked to all the pages in the website.

- Packages

The website provides what are the packages in the dream park and user can book the package from the web.

- Contact us

This page is to communicate between customer and the company. This page includes all the contact information of the company. If the customer nee to contact dream park he can find the information from this tab.

- Sign up

In the home page there is a button call sign up. In here web is asking an email from user. If we can use PHP, we can get user information using that button. Sign up is for keep the user updated about the company.

- Booking Button

Using this function user can book tickets.

- Inquiries

In this page user can give a feedback about the web or park.

1.1.6 Non-Functional Requirements

- RGBA color theme

Dark color theme to create the web.

- About Us

In this page there are no functions just text about the company.

- Form validations

Validate the date that user has entered.

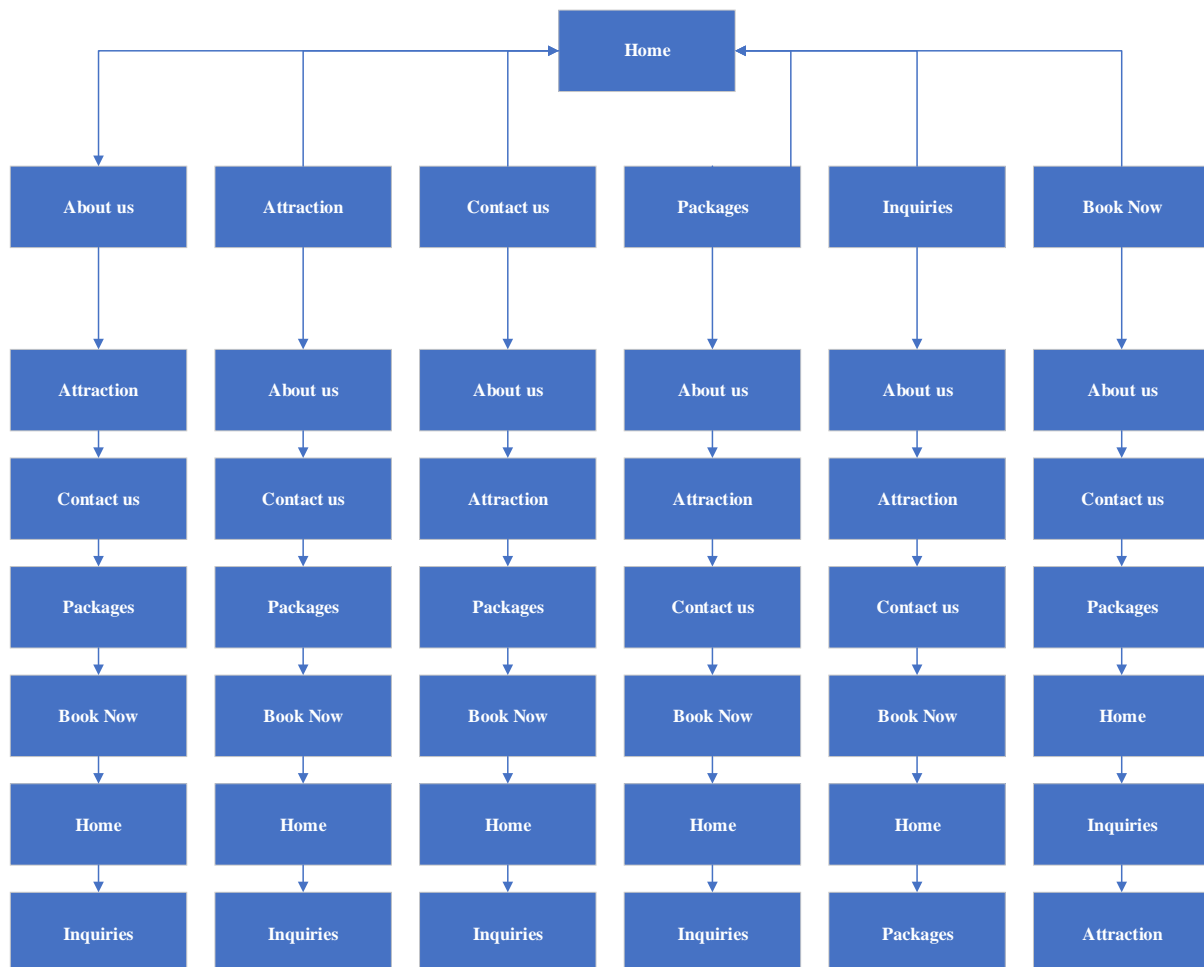
- User friendly

Easley user can browse the web site.

2 The Designing of The Dream Pak Web

After gathered the information and requirements next step is to develop the web. In this topic author has explained mapping of the functions and what are the functions.

2.1 Mapping of the website



2.2 Home

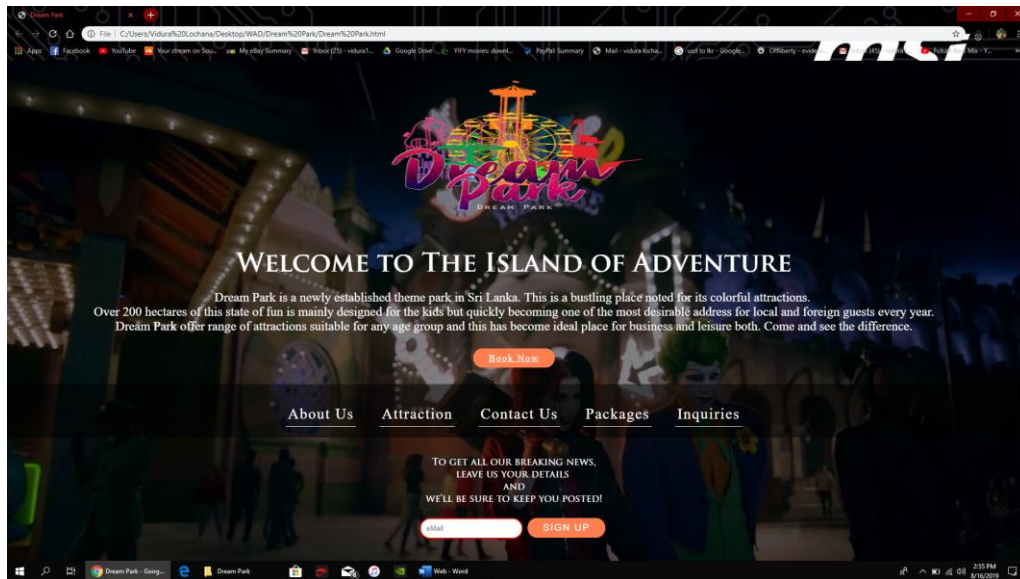


Figure 4 Home

According to the functional and nonfunctional requirements author used dark theme to create the web site. In this page, user can access to other tabs by clicking them. Also user can give email for get updates about the web and the company.

2.3 About us

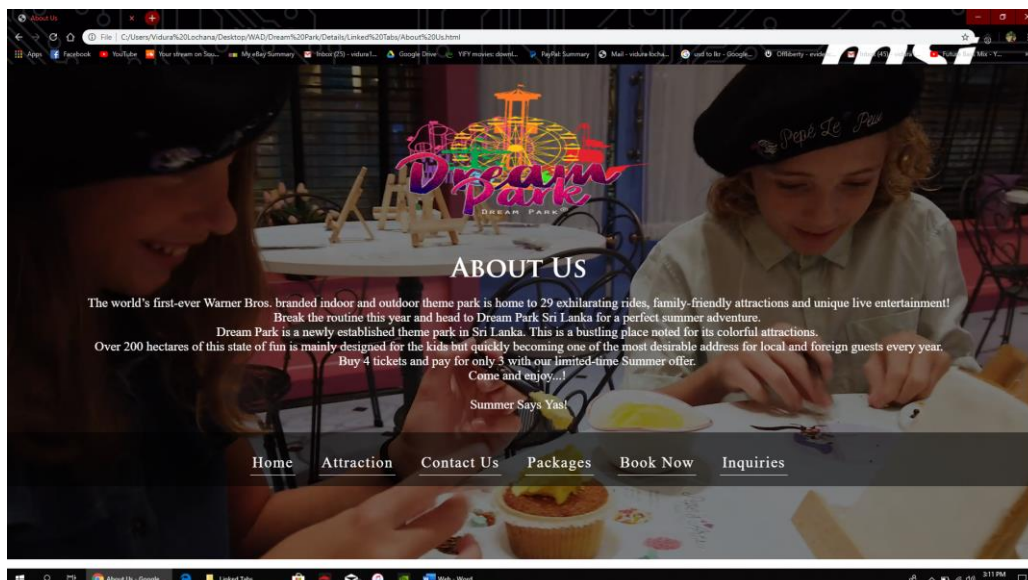


Figure 5 About Us

This page contains introduction about the company. Also, it contains a navigation bar and page is decorated with a background video and dark RGBA color code.

2.4 Attraction

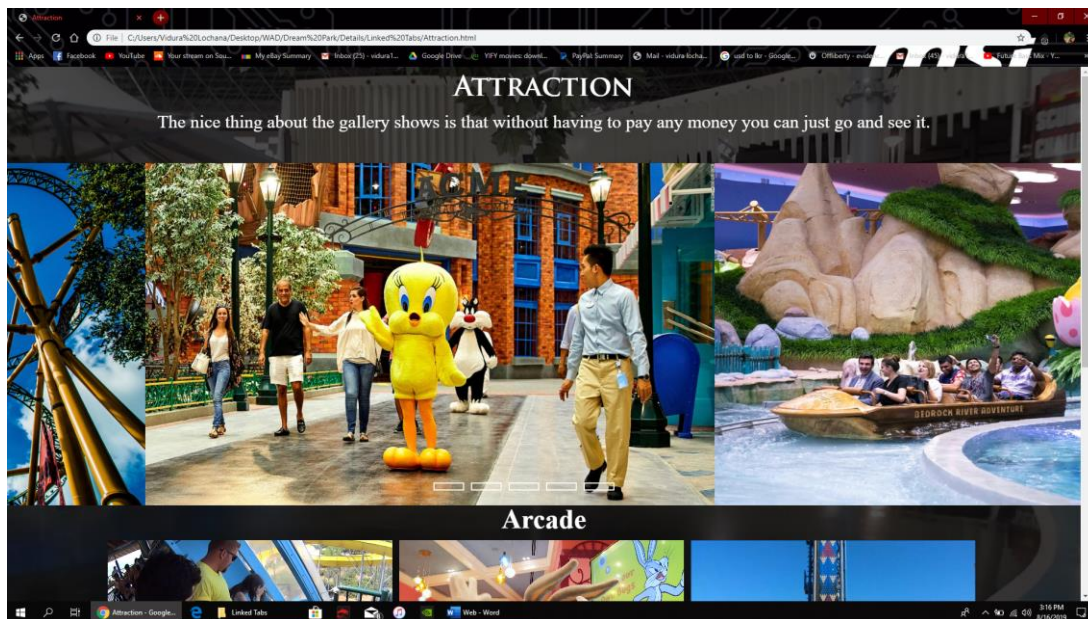


Figure 6 Attractions

This is the image and video gallery. In here there is a nice looking slide show on top of the page and after that we added some videos to the page and the bottom contained navigation bar of the web. Before the nav bar there is a button call click me. When the user click that button he can view more photos, Author linked that button to a google page.

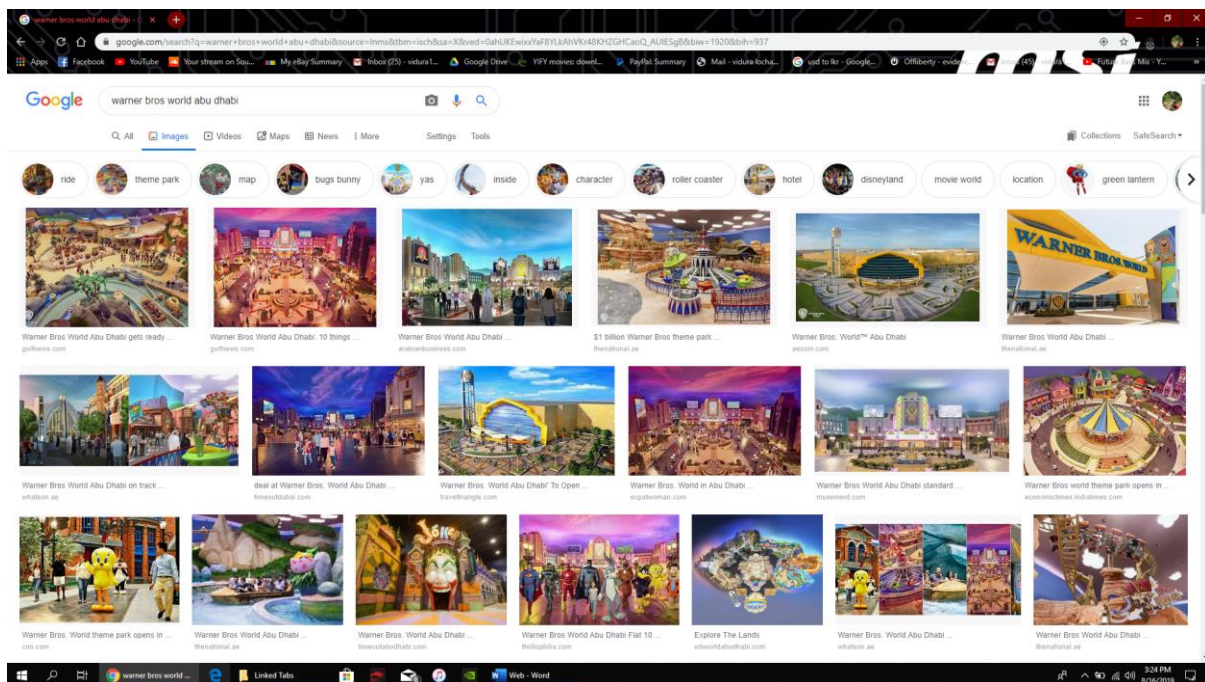


Figure 7 Warner brows

This is the page that linked to the button,

2.5 Contact Us

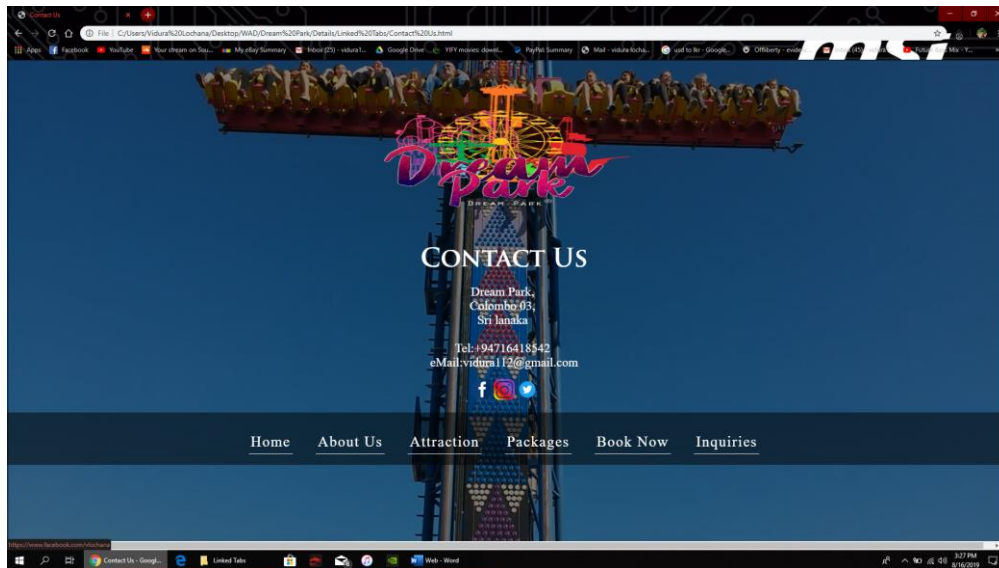


Figure 8 Contact Us

Contact us page is to communicate between customer and the company. From this tab user can get contact information about the company. Also there are small Facebook, Instagram and Twitter icons that linked to those pages.

2.6 Packages

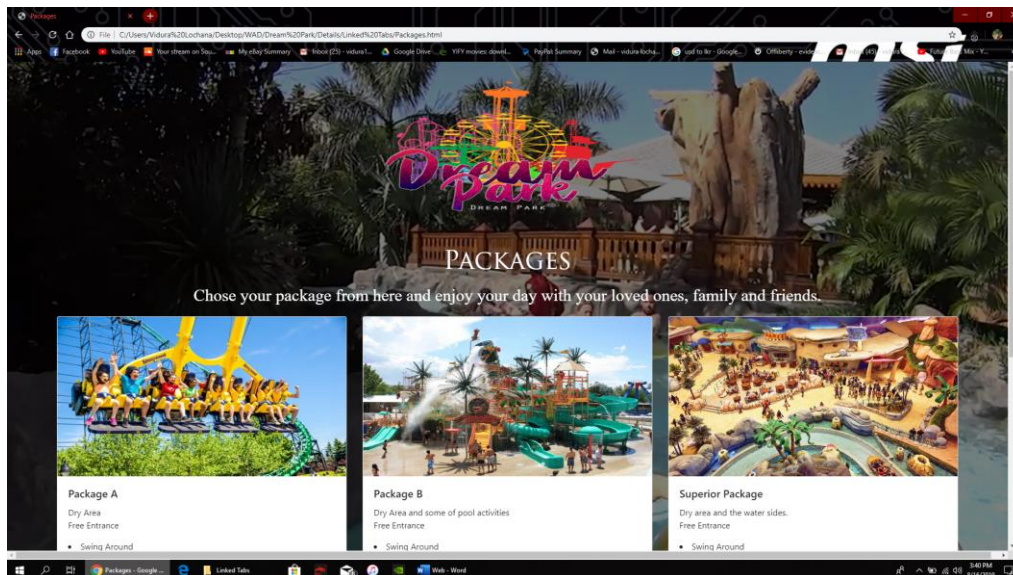


Figure 9 Packages

In this page user can view the packages of the park also below the package card there is a book now button. So, the user can book package from there. Like the other pages navigation bar is included in page.

2.7 Book Now

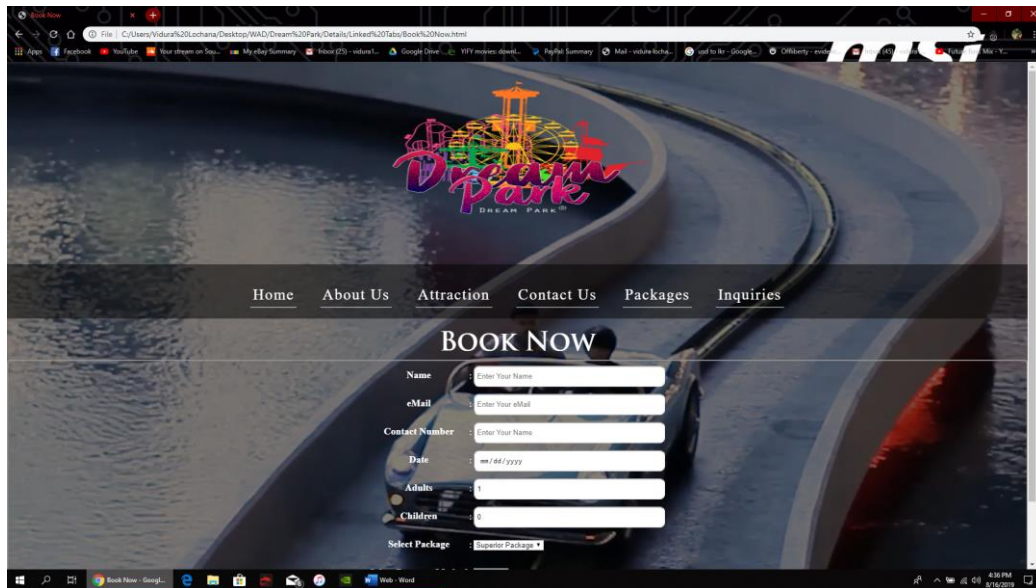


Figure 10 Book Now

In this page user can book their tickets and like the other pages page was decorated with dark RGB colors and back ground is a video loop. The author used tables to create those text boxes. Like the other pages there is a navigation bar to brows the other pages.

2.8 Inquiries

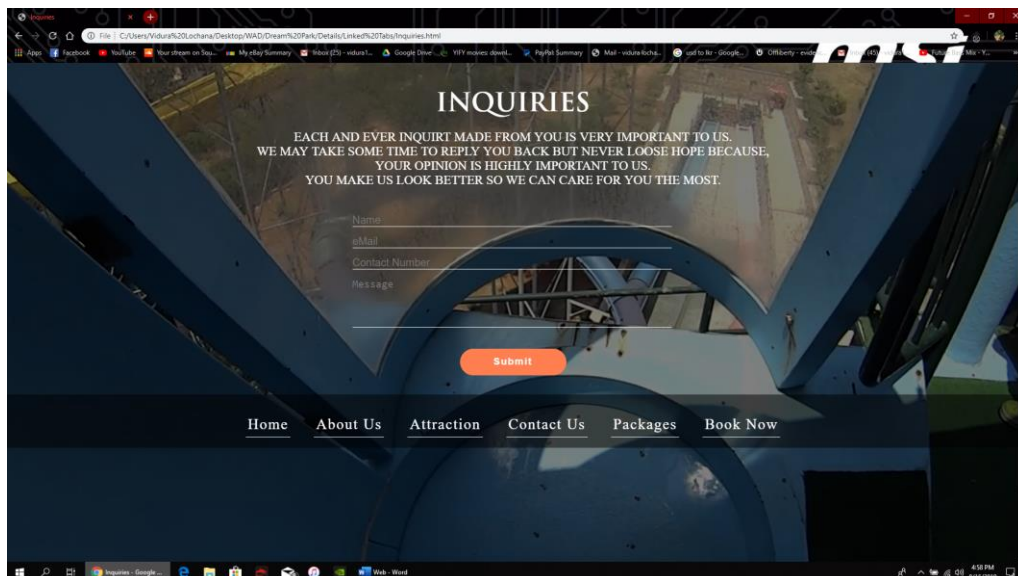


Figure 11 Inquiries

In this page user can give customer feedback about the web or company. Customer can write the message and submit it. And it contained navigation bar to go to other pages.

3 Code samples to prove use of different technologies

To create this web application, these are the code type that we used.

3.1 HTML

```

107
108
109 </style>
110 </head>
111 <body>
112
113 <video autoplay muted loop id="bgvideo">
114   <source src="Details/Videos/MDW_30s_eng_FullHD-14mb.mp4" type="video/mp4">
115 </video>
116
117 <div class="content">
118   <center></center>
119   <h1 align="center"><font color="FFFFFF" face="Trajan Pro" size="15">Welcome to The Island of Adventure</font></h1>
120   <br />
121   <p align="center"><font color="FFFFFF" size="5" face="Times New Roman, Times, serif">Dream Park is a newly established theme park in Sri Lanka. This is a bustling place noted for its colorful attractions, <br /> Over 200 hectares of this state of fun is mainly designed for the kids but quickly becoming one of the most desirable address for local and foreign guests every year.<br /> Dream Park offer range of attractions suitable for any age group and this has become ideal place for business and leisure both. Come and see the difference.</font></p>
122   <br />
123   <br />
124   <center><a href="Details/Linked Tabs/Book Now.html" class="btn btn1">Book Now</a></center>
125   <br />
126   <center><div class="nav">
127     <ul class="menu">
128       <li><a href="Dream Park.html">Home</a></li>
129       <li><a href="Details/Linked Tabs/About Us.html">About Us</a></li>
130       <li><a href="Details/Linked Tabs/Attraction.html">Attraction</a></li>
131       <li><a href="Details/Linked Tabs/Contact Us.html">Contact Us</a></li>
132       <li><a href="Details/Linked Tabs/Packages.html">Packages</a></li>
133       <li><a href="Details/Linked Tabs/Book Now.html">Book Now</a></li>
134       <li><a href="Details/Linked Tabs/Inquiries.html">Inquiries</a></li>
135     </ul>
136   </div></center>
137   <br />
138   <br />
139   <br />
140   <br />
141   <div class="login"><center>
142     <p align="center"><font color="FFFFFF" face="Trajan Pro" size="1">To get all our breaking news,<br /> leave us your details <br /> and<br /> we'll be sure to keep you posted!</font></p>
143     <br />
144     <input class="eml" type="email" placeholder="eMail" name="email" value="" />
145     <button class="signup" onClick="myFunction()"><span>SIGN UP</span></button>
146
147     <p id="demo"></p>
148     <script>
149       function myFunction()
150       {
151         var str = "We Will Keep You Updated";
152         var result = str.fontcolor("white");
153         document.getElementById("demo").innerHTML = result;
154       }
155     </script>
156   </div>
157 </body>

```

Figure 12 Home HTML

To create pages, create basic design and link pages together I used HTML. Basically, we use html to develop the Structure of the web page. In here the author used little java script part to get small text output.

3.2 CSS

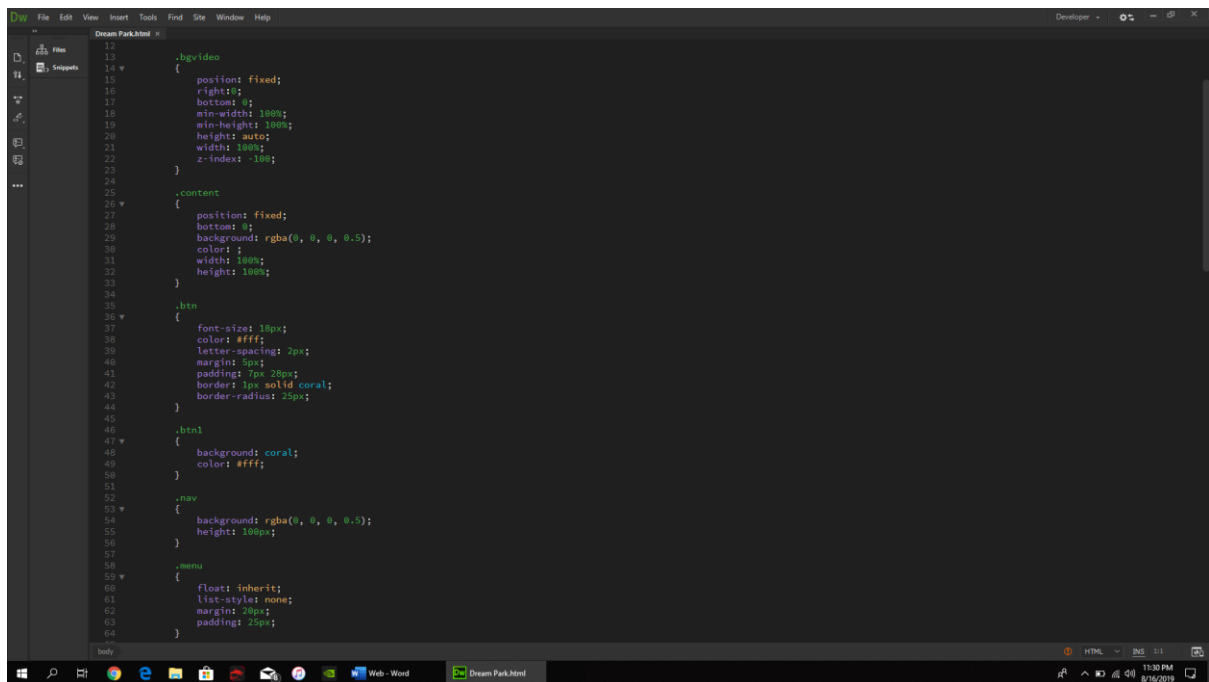


Figure 13 CSS

While doing HTML part we have to decorate our web page. CSS is for decorate those functions that create with HTML. In this web site the author added navigation bar and decorate some text boxes using CCS. We can code CCS as a separate file from html and link to the HTML or we can write inbuild CSS using `<style></style>` function. The author used second method. Also, we can set width and height of a video, image or any text box by calling id to the CSS page.

3.3 Bootstrap

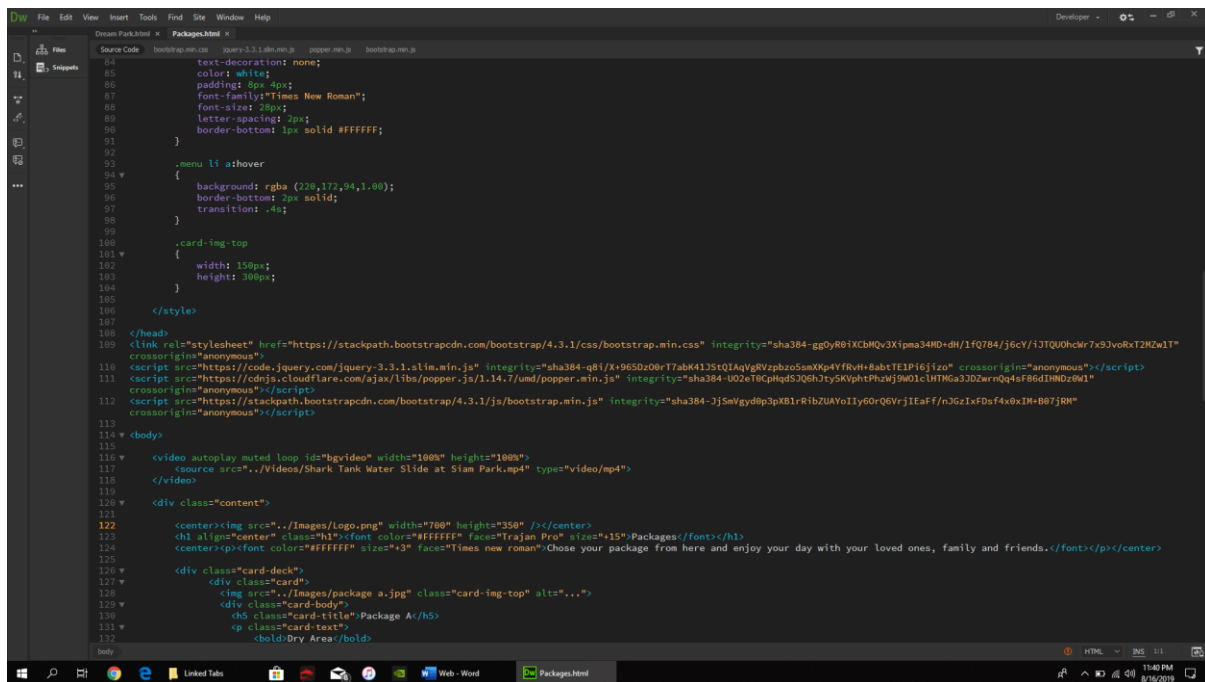


Figure 14 Bootstrap

Just like CSS we use Bootstrap to make more attractive our HTML web page. By using bootstrap, we can add navigation bars bootstrap cards to make our web beautiful. To use bootstrap, we have to link bootstrap links from the bootstrap web to our web page. Bootstrap comes with some examples and they are well justified and decorated things all we have to do is call the class to CSS page and make the call as we want. For decorating web site using bootstrap is much easier than using CSS. Somehow, we have to edit the bootstrap classes using CSS.

4 System Testing

4.1 Test Plan

To do the testing part we need a plan to do that. To do it we are dividing our whole web site in to test cases to check all the functions one by one.

Case Number	Case Name	Steps
Test Case 01	Test the user interface	<ol style="list-style-type: none"> 1. Go to every tab. 2. Check the colors and layout.
Test Case 02	Check the buttons	<ol style="list-style-type: none"> 1. Just click the button
Test Case 03	Check the button Hover	<ol style="list-style-type: none"> 1. Point the button without click it. 2. Click the button and check it.
Test Case 04	Check the text box	<ol style="list-style-type: none"> 1. Input letters 2. Input numbers 3. Input numbers and letters
Test case 05	Check the hyper links	<ol style="list-style-type: none"> 1. Open the web page 2. Click the hyper link
Test case 06	Check the Instagram, Facebook, Twitter Buttons	<ol style="list-style-type: none"> 1. Open the web 2. Click those images 3. Open those images in new tabs
Test case 07	Check the Navigation bar	<ol style="list-style-type: none"> 1. Open the web page 2. Click the tabs one by one left to right. 3. Click the tabs one by one randomly
Test case 08	Check the web with Google chrome	<ol style="list-style-type: none"> 1. Open web with Google chrome 2. Check the tabs

Test Case 09	Check the web with Microsoft Edge	1. Open the web with Microsoft Edge 2. Check the tabs
Test Case 10	Check the web with Firefox	1. Open the web with Firefox 2. Check the tabs

Figure 15 Test Plan

5 Test Cases

5.1.1 Test case 01

Test Case	Case 01
Case Name	Test the user interface
Expected Result	Colors and layout should okay
Actual result	Colors and layout are correct
Conclusion	Expected result and actual result is matched.

5.1.2 Test case 02

Test Case	Case 02
Case Name	Check the buttons
Expected Result	Functions not included for some buttons; others should work
Actual result	Button functions are working
Conclusion	Expected result and actual result is matched.

5.1.3 Test case 03

Test Case	Case 03
Case Name	Check the button Hover
Expected Result	When pointing the button and clicking button, color should change
Actual result	Button colors are changing
Conclusion	Expected result and actual result is matched.

5.1.4 Test case 04

Test Case	Case 04
Case Name	Check the Instagram, Facebook, Twitter Buttons
Expected Result	Numbers should be print in number label and text and numbers should be print on text label.
Actual result	Text also printing on text label
Conclusion	Expected result and actual result is not matched.

5.1.5 Test case 05

Test Case	Case 05
Case Name	Check the text box
Expected Result	Linked tabs should open
Actual result	Link tabs are working
Conclusion	Expected result and actual result is matched.

5.1.6 Test case 06

Test Case	Case 06
Case Name	Check the Instagram, Facebook, Twitter Buttons
Expected Result	When the user clicks the image pages should display
Actual result	Error
Conclusion	Expected result and actual result is not matched.

5.1.7 Test case 07

Test Case	Case 07
Case Name	Check the Navigation bar
Expected Result	All the tabs on navigation bar should work
Actual result	Functions are working
Conclusion	Expected result and actual result is matched.

5.1.8 Test case 08, 09, 10

Test Case	Case 08,09,10
Case Name	Check the web with google chrome Microsoft edge and Firefox
Expected Result	Web site should open with those thee browsers
Actual result	Web site is opening
Conclusion	Expected result and actual result is matched.

6 Conclusion

As this document I think that this website is ready to release to world wide web. From the user feed back web site is good looking very attractive and very user friendly. This web might not work with internet explore because new html versions, bootstrap and CSS elements we have to change the code to run this web with internet explorer. While we testing the web, we found some errors and those errors must fixed.

This web site contains every single detail about the company and their functions and the design is very attractive. To create this web site we used dart RGBA color codes and for the background we included some video loops.

About us, home, and contact us page are mostly about the dream park company and with contact us page customers can connect with the company.

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