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I confirm that I am the author of the associated submission.

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# 1. INTRODUCTION

Travelling was and still being one of the popular hobbies in human life. The World Tourism Organization illustrates that 1.3 billion people were traveled last year. [1] Therefore, these amounts of people are used numerous apps such as navigation and guide apps during the trip.

The Idea creating website called *“AroundNottingham”* is come when I travelled city called Nottingham. I have searched and found only 3-4 websites that showing popular places to visit, restaurants and pubs to go. Every year a lot of tourists and students arrive to Nottingham to explore and study. For these people, I wanted to create special website, that demonstrates popular places to visit, any sport areas, exploring and travelling places, and places to go to shopping.

This report illustrates the created website by web-development subject. The website is about the tourism in the city of Nottingham and the website called *“Around Nottingham”*. The website provides information and show the more details about the Nottingham city.

# 2. RESEARCH

Nowadays, there are numerous websites about tourism and discovering the world and each of the websites has a focus to one specific area. Therefore, the website *“AroundNottingham”* has specifically focused on the tourism in city called Nottingham.

## 2.1 HTML

During the work on the website has been used HyperText Markup Language, or HTML for documents designed to be displayed in a web browser. [4]

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| *Text  Description automatically generated*  *2.1 Html part of the website* |
| I used HyperText Markup Language, or HTML to create carcass of the website. The screenshot shows, how the html was created, what type of tags have been used, what type of information have added. Also, illustrates information how I created header and how put the links to move to another page and make the website more adaptive. |
| Graphical user interface, website  Description automatically generated  *2.1 Html part of the website* |
| Additionally, I would rather to show how I created the navigation part of the website. To create navigate part I create another section and div classes. Also, I added links to another page and put the image to make the page more interesting for user. |

## 2.2 CSS

Also, I used CSS or Cascading Style Sheet language for describing the presentation of a document written in a markup language such as HTML. [6]

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| Text  Description automatically generated  *2.2 CSS part of the website* |
| To make webpage more adaptable, and interesting to view I used CSS. Screenshot illustrates that how the navigation part with tag “header” have been changed. Also, it shows how I can change the image size, color, background-color, and position. |

## 2.3 JavaScript

Therefore, to make the website more adaptive, dynamic, functional and add special effects on pages, has been used JavaScript.

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| Text  Description automatically generatedGraphical user interface, application  Description automatically generated  *3.1 JavaScript part of the website* |
| In this website, JavaScript has been used to connect form. Form to receive the users’ data. For instance, first name, last name, email, message.  If the user input right details and click the submit button. The user will receive information that details have been successful uploaded.  To connect form and website, I used the functions as success, error and ajax. Also used if else statement to connect properly. |

## 2.4 Domain and hosting connection

Every website has its own web name or web link, and the created website has registered with hosting and domain. During the work, I have used the hosting provider from the InfinityFree page, and the domain used by the Freenom page.

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| A screenshot of a video game  Description automatically generated |

*2.4 InfinityFree hosting provider website*

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| *Graphical user interface, text, application  Description automatically generated* |

*2.4 Domain website*

# 3.PLANNING

## 3.1 Description of each page

### 3.1.1 Main page

Main page is first page when user open the website. In this page user can move to other pages as “Main page”, “About the project”, “Interesting podcasts”, “Contact us”, “FAQ”. Also in this page, user can go to another pages like “Restaurants”, “Explore”, “Shopping”, “Sport”, “Outdoor activities”, “Places to stay” to acquire more knowledge about the city.[3]

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| A picture containing text, outdoor, water, river  Description automatically generated |
| Graphical user interface, website  Description automatically generated  *3.1.1 Main page* |

### 3.1.2 About the project page

About the project page shows the information about the project history and detail information about who and how the website was created. In this page user can enter to other pages as well. For instance, go to social media platforms as Facebook, Twitter, Instagram, YouTube, and LinkedIn. Also, there are the links to the main page, about the project page, interesting podcasts page, Contact us and FAQ pages.

Therefore, website page illustrates information to user about the project background and reasons creating the website.

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| Graphical user interface, website  Description automatically generated  *3.1.2 About the project page* |

### 3.1.3 Interesting podcasts

Interesting podcasts page provides information about the actual podcasts about Nottingham, situation and news going on in Nottingham city. User can read the brief description of the podcast, select, click the button called “Listen Now” and the link will be opened in the new page. Therefore, user able to go back to the previous page, go the other pages or our social platforms at the end of the page.

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| Graphical user interface, website  Description automatically generated  Graphical user interface, text, website  Description automatically generated  *3.1.3 Interesting podcasts pages* |

### 3.1.4 Contact us page

Contact us page has contain links to other pages, to social media platforms, google map details and user connection form. The map and form show the detail information about the location and give the user ability for connect with support team and ask a question.

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| Graphical user interface, application  Description automatically generated  *3.1.4 Contact us page* |

### 3.1.5 Frequently Asked Questions page

This page illustrates information about the questions that the users ask frequently. For instance, what is Nottingham, what is Nottingham famous for, is Nottingham a historic city. In addition, there are the links to get more information about the answer and there is the video link to find out more about the city of Nottingham. [7][2]

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| Graphical user interface, website  Description automatically generated  3.1.5 FAQ page |

## 3.2 Sketch of each page

### 3.2.1 Main page

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### 3.2.2 About the project

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| Text, letter  Description automatically generated |

### 3.2.3 Interesting podcasts

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| Letter  Description automatically generated |
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### 3.2.4 Contact us

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| Text, letter  Description automatically generated |

### 3.2.5 FAQ

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| Text, letter  Description automatically generated |

## 3.3 Hierarchical diagram.

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| Diagram  Description automatically generated |
| This hierarchical diagram illustrates internal / external links of website. Visitor of this website able to switch pages and go back the previous webpage. All the pages connected with each other through HTML and CSS code. |

# 4. DESIGN. PHILOSOPHY OF THE WEBSITE.

Every website has their own purpose, target audience, philosophy, and design. Some people want to increase their sales by create special internet store or landing page although some people create the blogs and write their thoughts about some subjects and share it with audience. Every creator should brainstorm about purpose, audience, design, and philosophy and should identify their own direction.

During the development of “Around Nottingham” website, I focused on actual and relevant information, used trusted sources, tried to make the information clear and accessible for user. I found helpful websites such as *“visit-nottinghamshire.co.uk”* and *“en.wikipedia.org/wiki/Nottingham”.* Purpose of the website is making the information about the travelling in the city of Nottingham accessible, optimized, functional, and clear for tourists. To achieve these goals, I used multimedia, animation, social media, and other sources to create website and make it better.

Additionally, I used programming technologies and instruments like HTML, CSS, JavaScript to create the proper design and make a website filled with information and interesting to view.

# 5. BRIEF EXPLANATION OF THE CODING.

In this part of report work, I would like to demonstrate the main elements of the website for users. These elements help to make the website clear, optimized, responsive and reliable.

## 5.1 Google map

To create the section displays the map information, I used HTML and CSS languages and edit these codes to make the page interesting to view.

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| Graphical user interface, website, map  Description automatically generated  *5.1 Google map* |
| Firstly, I created the basic HTML page and created section and div tags.  Secondly, I identified the div class and put the tittle name.  Thirdly, I created section class = “location” then choose my proper space in google maps, select share button and embed a map.  Finally, When I copied the html code from google maps, I had put it to the already created section and closed section. |
| Text  Description automatically generated  *5.1 Google map. Code part* |

## 5.2 Contact form

Contact form created and used to get a feedback and receive any messages from the user. To create the user form have been used the HTML, CSS, and JavaScript parts of code.

### 5.2.1 Contact form – HTML code

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| Text  Description automatically generated  5.2.1 Contact form – HTML code |
| I have used the HTML codes to create section and div classes. When I created div classes I connected with website called *“Formspree”.*  The Formspree page helps to store data without creating database and send the users data to administrator’s email. After the connecting with website, I created another div form-group classes and identified the input type, id and name.  After creating the input details, the submit button and message have been created. Also, I connected html page with JavaScript used the *“script src=”js file”.* |

### 5.2.2 Contact form – CSS code

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| The CSS code in contact form part has been used to make the contact page more optimized, functional, and structured. As the screenshots illustrate that I used classes, group forms (“. form-group”) and button (. button) links in CSS file.  Additionally, I created ways to show error message (“#status.error”), if the user wrote inappropriate details such as first name, last name, e-mail and message. |

### 5.2.3 Contact form – JavaScript code

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| Text  Description automatically generated  5.2.3 Contact form – JavaScript code |
| The JavaScript part of the code connect the form side and server side. During the create JS code have been used “var form” and “var status” elements to get the form elements defined in the HTML code. Then, I used success (“function.success()”) and error (“function.error()”) functions to identify was the data written correct and was the form submitted. |

# 6. TESTING OF THE WEBSITE

## 6.1 Illustrating contact form

In the testing part, I would like to show how the contact formwork. One of the purposes of the contact form is always being in touch with the user. The user should be able to send messages to the support service any time and it was not so difficult for the user to send messages. If the user wanted to send a message to support the service or ask any question. The user should write first and last name, put the email address and fill the message form then click the submit button. If the user fills the form correctly, when clicked the submit button, the user will be able to see the feedback message. For example, *Thanks! Submitted successfully.*

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| Graphical user interface, application  Description automatically generated  *6.1 Contact form* |

## 6.2 Testing on browsers

This part illustrates that all the pages can be opened in different type of browsers. It was protested in 4 popular internet browsers such as Google Chrome, Mozilla Firefox, Opera GX, Safari. All the information is visible on the browsers and every button and links are protested and worked as well.

### 6.2.1 Google Chrome.

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| *A picture containing text, outdoor, traveling  Description automatically generated*  *6.2.1 Google Chrome screen* |

### 6.2.2 Mozilla Firefox.

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| A picture containing text, outdoor, traveling  Description automatically generated  *6.2.2 Mozilla Firefox screen* |

### 6.2.3 Opera GX.

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| A picture containing text, water, outdoor  Description automatically generated  6.2.3 Opera GX screen |

### 6.2.4 Safari.

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| --- |
| A picture containing text, outdoor, river  Description automatically generated  *6.2.4 Safari screen* |

## 6.3 Testing the website on mobile phones

This part shows that all the pages are accessible to mobile phone users. This test was tested on a mobile phone called iPhone 10. One of the reasons why the mobile phone testing part have been protested on this phone is it is one of the popular mobile phones and nowadays, many of the mobile phones have the similar graphic extensions.

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| Graphical user interface  Description automatically generated | Graphical user interface, application  Description automatically generated |

## 6.4 Commentary on potential fixes

Working on a web project takes time and effort. Also, when the project is finished, it should be well protested before publishing. During the testing of my website, I have noticed some little things that need to be fixed. One of the I would like to create another template for small-size phones. For example, there are individuals who are still using old versions of smartphones like Samsung Galaxy S5 or iPhone SE/5/5s. For these users, I would like to make the text smaller and adaptable for their mobile phones.

I tried to create another template before for these types of users but because of lack of time, I could not make it properly. It is not a big issue, and the website still works on small smartphones, but it does not look as well as I want it to.

# 7. EVALUATION

Working on this assignment, I learned a lot of new things about the web-development, also how to write the proper code in CSS and JavaScript.

I used to create simple web pages, but now I am confident in creating more complex websites and use additional libraries and applications. When I started working on the site, it was difficult at the first stages, but when I understood the basic concepts, it became easier and more pleasant to work with it.

While working on the website, materials from VLE, additional materials from the tutor and what we learned in the classes with the tutor really helped me to complete the task.

I did my best all the time when I worked on this assignment and made an effort to pass it on time. As I mentioned before, I upgrade my web-programming skills and I would like to learn more about the backend side. For example, about the database and try to properly understand the sides of PHP, SQL, JavaScript.

One thing I will remember to do in the future is planning properly before starting the project. I ran into some difficulties, and I had to change my code several times because I planned my work incorrectly.

In the future, I will try to avoid my mistakes, and I really want to continue studying web development, because I feel that this is my passion and where I feel confident and good.

# REFERENCES

1.Roser, M (2021). Tourism. Retrieved from: www.ourworldindata.org/tourism [Accessed 30 June 2021].

2.Wikipedia (2020). Nottingham. Retrieved from: www.en.wikipedia.org/wiki/Nottingham [Accessed 30 June 2021].

3.Visit Nottinghamshire (2020). Things to do in Nottingham. Retrieved from: www.visit-nottinghamshire.co.uk/things-to-do [Accessed 30 June 2021].

4.W3Schools (2021). HTML Tutorial. Retrieved from: www.w3schools.com/html/ [Accessed 30 June 2021].

5.CodeAcademy (2021). Learn CSS. Retrieved from: www.codecademy.com/learn/learn-css [Accessed 30 June 2021].

6.W3Schools (2021). CSS Tutorial. Retrieved from: www.w3schools.com/css/default.asp [Accessed 30 June 2021].

7.Our Wedding Videographers. (2020, May 29). Nott as we know it - a portrait of Nottingham in Lockdown. [YouTube video]. Retrieved from: www.youtube.com/watch?v=cYcRj7O3cXc&list=WL&index=39&ab\_channel=OurWeddingVideographers [Accessed 30 June 2021].