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Britannia inn development

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# Requirements

During the designing stage of this project, a list of requirements was produced allowing for the developers to use these requirements to check that the website meets the required standards. The minimum requirements for this project were:

* Functional:
  + Mobile-first.
  + Accessibility features.
  + A suitable contact method for enquires.
* Non-Functional:
  + Higher quality images
  + Interactive maps
  + Menus

## Functional Requirements

The website needed to be mobile first designed. This is due to most website views coming from mobile devices. So, designing the website to be mobile first means that this version can be worked on for longer and therefore at a better standard.

Accessibility features allows for users to customize their experience within the website. Simple things such as a light and dark mode version of the website allows the user to modify the website in a way that they prefer.

A form was used to allow users to contact the inn. The user would simply fill in the form and press send. This form can be linked to the inn’s email which the managers can access.

## Non-Functional Requirements

Higher quality Images was achieved using carousels. These allowed for the images to be larger on the screen and more readable. Also, a carousel allows all the images to be condensed into the same space which helps with allowing the images to be larger.

An interactive map was implemented using a google maps API. Google maps is one of the most popular interactive maps on the internet (\*REFERENCE) meaning that it is familiar to many. This familiarity means that the user will understand how to interact with this section of the website.

Menus were simply implemented by using tables which could be linked to a database in future development.

# Chosen Tools, Frameworks and Programming Languages

## Tools

Visual Studio Code was the chosen tool for the development process. Not only is this because it is the most familiar tool for the development team, but due to the many features that it holds including Version control, AI auto completion and Live editing.

Version control allows for development to continue no matter where the development is happening. Whether it is at the park, in the office or at home, if there is internet connection progress can be made. Also, version control could allow for the website to be posted publicly whilst development continues.

Whilst many development tools have auto completion, visual studio code uses an AI engine to automatically complete not only words, but entire lines of code. This allows for development to progress faster whilst still being just as accurate. However, this is AI and can sometimes make mistakes. These mistakes means that you may have to redo certain sections of code which can take time.

Another handy feature of Visual Studio code is the live editing. Live editing means that during development when a section of code is complete the website will update with the added line of code. This allows developers to quickly identify what the code is doing to the website as they are working and make the necessary changes.

## Frameworks

The framework of choice was Bootstrap. Bootstrap is one of the most popular frameworks due to its high customizability (\*REFERENCE). In this project some Flex boxes, Carousels, Forms, off canvases were used.

A flex box was used to help with the positioning of the navigation bar on the desktop/tablet version of the website, giving the desired look of Link | Link | Link etc. Using flex boxes simplifies the method of using tables for positioning and for adjusting the distance between each link when the screen size changes.

Carousels were used to display images on a larger area of the screen. Bootstrap offers many versions of carousels and styling methods. The carousel that was used in this project contains the image, indicators (Shows what image you are on), a title and a description. However, the title and description do not fit onto the mobile version of the website so are cropped out.

The Form used on the Contact Us page is from bootstrap. Yes, HTML does have its own form tag, but the Bootstrap version is already formatted in a nice way. The form could have been the HTML version, but the Bootstrap version saves time.

An off canvas is a very common feature on mobile versions of websites when paired with hamburger menus. There are many methods to making a hamburger menu with bootstrap ranging from drop downs to accordions. Off canvases are so popular on mobiles because forms a temporary overlay to the website that the user can interact with.

## Languages

### HTML

### CSS

### JS

# Version Control

This project used GitHub to manage version control. GitHub is an interface for interacting with Git. Git is a version control system that detects when a file has been updated and keeps a constant version of the project live. It does this by creating branches which can be edited in what ever way that it needs to be. Once the editing has been done, Git offers a “Push” option which will merge the edited branch with the live hosted version. During the merge it will detect whether any code clashes such as added, edited and removed lines and brings this feedback to the developer allowing them to choose which bits should be overwritten and which should not.

A screenshot of a computer

Description automatically generated

# Testing

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test No | Description | Expected outcome | Actual outcome | Success? | Comments |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |
| 6 |  |  |  |  |  |
| 7 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |

# End User Documentation

## Navigation

### Desktop/Tablet

A green and white building

Description automatically generated with low confidence

On a computer/tablet, simply click/tap on one of the white locations in the blue bar near the top of the screen. This will take you to the corresponding page.

### A screenshot of a computer Description automatically generated with medium confidenceMobile

A screenshot of a menu

Description automatically generated with low confidence

On Mobile, Click the three white bars at the top left of the screen (Left image). This will bring out a pop out menu (Right Image).

From here, select one of the white locations and it should relocate you to the corresponding page.

## Dark/Light Mode

### Desktop/Tablet

A picture containing text, screenshot, font, logo

Description automatically generatedA screenshot of a computer

Description automatically generated with low confidence

On desktop/tablet, click/tap the small cog to the right of the navigation bar (Left Image).

This will change the colour of the backgrounds and the font (image below)

### Mobile

A screenshot of a phone

Description automatically generated with low confidence A screenshot of a menu

Description automatically generated with low confidence

On Mobile, tap on the small cog located at the bottom left of the screen (Left Image).

This will change the pages background and font colours (Right Image).

## Carousel

### Desktop/Tablet & Mobile

Desktop/Tablet:

A picture containing text, outdoor, car, land vehicle

Description automatically generated

Mobile:

A view of a town and a body of water

Description automatically generated with low confidence

In this website, certain pages contain a carousel. To use the carousel, click/tap on the left or right side of the carousel image. This will be being you to the next image along.

Or use the white dashes located at the bottom of the image to navigate to a certain image.

## Maps

### Desktop/Tablet & Mobile

Desktop:

A map of a city

Description automatically generated with low confidence

Mobile:

A picture containing text, screenshot, map

Description automatically generated

On the Locations Page, there is an Interactive Map located at the bottom of the screen. Simply click/tap on the map and drag your mouse/finger around the screen to move the map. To zoom in on Desktop, hold the Ctrl key and use the wheel on the mouse to scroll in and out. On tablet and mobile, use place to fingers on the map. Then either separate your fingers to zoom in or bring your fingers together to zoom out. Finally, at the top of the map there is a button that says, “Your Location”. Once this is clicked/tapped a popup will appear in the top of your screen asking to retrieve your current location. Denying will mean the map will not look for your location but accepting will bring the map to your approximate location.

## Form

### Desktop/Tablet & Mobile

Desktop:

A screenshot of a contact form

Description automatically generated with medium confidence

Mobile:

A screenshot of a contact form

Description automatically generated with medium confidence

On the Contact Page, there is a form. This form will send your message to the email account of the Britannia Inn.

Simply click/tap on a box, type email, name or message (Depending on which box you tapped) then click/tap on the next box. And so on until all the boxes white boxes are filled with information.

Finally, to send the details and message, click/tap submit.

If you don’t want to fill in the form, there is the email address and phone number of the Inn for you to contact them this way.

# Evaluation and Discussion

# Appendices – Annotated Code Listings

# References