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Informatics 3/4 2018

Testing

Development

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# Testing table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Area being tested** | **Item to be tested** | **How it was tested** | **Expected Result** | **Actual Result** | **Changes** |
| *Navigation from home page* | Home -> results page using nav | Clicking on the link to see if it navigates to the correct page | Load results page | Loads results page | N/A |
|  | Home -> data collection and analysis page  Using nav | Clicking the link to see if navigates to the correct page | Load data collection results | Loads data collection page | N/A |
|  | Home -> bibliography page using navigation at bottom of page | Clicking the link to see if it navigates to the correct page | Loads bibliography page | Loads bibliography page | N/A |
|  | Home -> back to top of home page using link on bottom of the page | Clicking the link to see if it scrolls back to the top of the page | Loads top of home page | Loads top of home page | N/A |
|  | Home -> research page using showcase link | Clicking the appropriate showcase to see if it navigates to the correct page | Loads results page | Loads results page | N/A |
|  | Home -> data collection and analysis page | Clicking the appropriate showcase to see if it navigates to the correct page | Loads data collection and analysis page | Loads data collection and analysis page | N/A |
| *Navigation with small page width from home page* | Button for dropdown navigation appears and works | Decreasing the page width, then clicking on the icon that activates the dropdown menu | Loads dropdown button which when selected, loads the dropdown navigation | Loads dropdown button which when selected, loads the dropdown navigation | N/A |
|  | Home -> results page using nav | Decreasing the page width, then clicking on the link to see if it navigates to the correct page | Dropdown link navigates to research page | Dropdown link navigates to research page | N/A |
|  | Home -> data collection and analysis page  Using nav | Decreasing the page width, then clicking the link to see if navigates to the correct page | Dropdown link navigates to data collection and analysis page | Dropdown link navigates to data collection and analysis page | N/A |
| *Navigation from research page* | Research -> home page using nav | Clicking on the link to see if it navigates to the correct page | Load home page | Load home page | N/A |
|  | Research -> data collection page | Clicking on the link to see if it navigates to the correct page | Load data collection and analysis page | Load data collection and analysis page | N/A |
|  | Research -> bibliography page | Clicking the link to see if it navigates to the correct page | Load bibliography page | Load bibliography page | N/A |
|  | Research -> top of research page using back to top link | Clicking the link to see if it scrolls back to the top of the page | Loads top of research page | Loads top of research page | N/A |
| *Navigation with small page width from research page* | Button for dropdown navigation appears and works | Decreasing the page width, then clicking on the icon that activates the dropdown menu | Loads dropdown button which when selected, loads the dropdown navigation | Loads dropdown button which when selected, loads the dropdown navigation | N/A |
|  | research -> home page using nav | Decreasing the page width, then clicking on the link to see if it navigates to the correct page | Dropdown link navigates to home page | Dropdown link navigates to home page | N/A |
|  | research -> data collection and analysis page  Using nav | Decreasing the page width, then clicking the link to see if navigates to the correct page | Dropdown link navigates to data collection and analysis page | Dropdown link navigates to data collection and analysis page | N/A |
| *Navigation from data collection and analysis page* | Data collection and analysis -> home page using nav | Clicking on the link to see if it navigates to the correct page | Load home page | Load home page | N/A |
|  | Data collection and analysis -> research page | Clicking on the link to see if it navigates to the correct page | Load Research page | Load research page | N/A |
|  | Data collection and analysis -> bibliography page | Clicking the link to see if it navigates to the correct page | Load bibliography page | Load bibliography page | N/A |
|  | Data collection and analysis -> top of Data collection and analysis page using back to top link | Clicking the link to see if it scrolls back to the top of the page | Load top of data collection and analysis page | Load top of data collection and analysis page | N/A |
| *Navigation with small page width from data collection and analysis page* | Button for dropdown navigation appears and works | Decreasing the page width, then clicking on the icon that activates the dropdown menu | Loads dropdown button which when selected, loads the dropdown navigation | Loads dropdown button which when selected, loads the dropdown navigation | N/A |
|  | Data collection and analysis -> home page using nav | Decreasing the page width, then clicking on the link to see if it navigates to the correct page | Dropdown link navigates to home page | Dropdown link navigates to home page | N/A |
|  | Data collection and analysis -> data collection and analysis page  Using nav | Decreasing the page width, then clicking the link to see if navigates to the correct page | Dropdown link navigates to research page | Dropdown link navigates to research page | N/A |
| *Navigation from bibliography page* | Bibliography -> home page | Clicking on the link to see if it navigates to the correct page | Load home page | Load home page | N/A |
|  | Bibliography -> research page | Clicking on the link to see if it navigates to the correct page | Load research page | Load research page | N/A |
|  | Bibliography -> data collection and analysis page | Clicking on the link to see if it navigates to the correct page | Load data collection and analysis page | Load data collection and analysis page | N/A |
|  | Bibliography -> top of bibliography page | Clicking the link to see if it scrolls back to the top of the page | Load top of bibliography page | Load top of bibliography page | N/A |
| *Navigation with small page width from bibliography page* | Button for dropdown navigation | Decreasing the page width, then clicking on the icon that activates the dropdown menu | Loads dropdown button which when selected, loads the dropdown navigation | Loads dropdown button which when selected, loads the dropdown navigation | N/A |
|  | bibliography -> home page using nav | Decreasing the page width, then clicking on the link to see if it navigates to the correct page | Dropdown link navigates to home page | Dropdown link navigates to home page | N/A |
|  | bibliography -> research page using nav | Decreasing the page width, then clicking on the link to see if it navigates to the correct page | Dropdown link navigates to research page | Dropdown link navigates to research page | N/A |
|  | bibliography -> data collection and analysis page using nav | Decreasing the page width, then clicking on the link to see if it navigates to the correct page | Dropdown link navigates to data collection and analysis page | Dropdown link navigates to data collection and analysis page | N/A |
| *Exercise Vs Concentration graph* | Correct data being displayed | Compare with the graphs and results from my data analysis | Graph looks like the graph in the data analysis and the data points match those from results | Graph looks like the graph in the data analysis and the data points match those from results | N/A |
|  | Exercise vs Concentration graph -> Age vs concentration graph | Clicking on the button and the right graph appears | The graph of Age vs concentration appears in place of the exercise concentration graph | The graph of Age vs concentration appears in place of the exercise concentration graph | N/A |
|  | Exercise vs Concentration graph -> Age vs Exercise graph | Clicking on the button and the right graph appears | The graph of Age vs Exercise appears in place of the exercise concentration graph | The graph of Age vs Exercise appears in place of the exercise concentration graph | N/A |
| *Age vs Concentration graph* | Correct data being displayed | Compare with the graphs and results from my data analysis | Graph looks like the graph in the data analysis and the data points match those from results | Graph looks like the graph in the data analysis and the data points match those from results | N/A |
|  | Age vs concentration graph -> Exercise vs Concentration | Clicking on the button and the right graph appears | The graph of Exercise vs concentration appears in place of the age vs concentration graph | The graph of Exercise vs concentration appears in place of the age vs concentration graph | N/A |
|  | Age vs concentration graph -> Age vs Exercise | Clicking on the button and the right graph appears | The graph of Age vs Exercise appears in place of the age vs concentration graph | The graph of Age vs Exercise appears in place of the age vs concentration graph | N/A |
| *Age vs Exercise graph* | Correct data being displayed | Compare with the graphs and results from my data analysis | Graph looks like the graph in the data analysis and the data points match those from results | Graph looks like the graph in the data analysis and the data points match those from results | N/A |
|  | Age vs Exercise graph -> Exercise vs Concentration | Clicking on the button and the right graph appears | The graph of Exercise vs concentration appears in place of the age vs exercise graph | The graph of Exercise vs concentration appears in place of the age vs exercise graph | N/A |
|  | Age vs Exercise graph -> Age vs Concentration | Clicking on the button and the right graph appears | The graph of Age vs Concentration appears in place of the age vs exercise graph | The graph of Age vs Concentration appears in place of the age vs exercise graph | N/A |
| *Coding resources links* | Bootstrap link | Clicking on the button and the right webpage appears | The bootstrap website loads on the browser | The bootstrap website loads on the browser | N/A |
|  | Chartjs link | Clicking on the button and the right webpage appears | The chartjs website loads on the browser | The chartjs website loads on the browser | N/A |
|  | startBootstrap link | Clicking the button and the right webpage appears | The startBootstrap website loads on the browser | The startBootstrap website loads on the browser | N/A |
|  |  |  |  |  |  |

# Media

## Images

|  |  |
| --- | --- |
| **Checklist** | **Tick** |
| Are all the images relevant? | ✓ |
| Are all the images appropriate? | ✓ |
| Are the images of appropriate sizes? | ✓ |
| Do the images appear in the correct places? | ✓ |

## Graphs

|  |  |
| --- | --- |
| **Checklist** | **Tick** |
| Are all the graphs relevant? | ✓ |
| Are all the graphs appropriate? | ✓ |
| Are the graphs of appropriate sizes? | ✓ |
| Do the graphs appear in the correct places? | ✓ |

# Readability

## Reviewer 1

|  |  |
| --- | --- |
| **Checklist** | **Tick** |
| Is the text large enough to read comfortably on a small device? | ✓ |
| Is the contrast optimal, or at least satisfactory? | ✓ |
| Is the typeface a readable size? | ✓ |
| Are lines or paragraphs of a good length? | ✓ |
| Is the text alignment attractive and readable on the page? | ✓ |
| Is the spelling, punctuation and grammar accurate? | ✓ |
| Is the vocabulary appropriate and inoffensive? | ✓ |
| Is expression clear and unambiguous? | ✓ |
| Are headings clear and do they divide content into logical sections? | ✓ |

## Reviewer 2

|  |  |
| --- | --- |
| **Checklist** | **Tick** |
| Is the text large enough to read comfortably on a small device? | ✓ |
| Is the contrast optimal, or at least satisfactory? | ✓ |
| Is the typeface a readable size? | ✓ |
| Are lines or paragraphs of a good length? | ✓ |
| Is the text alignment attractive and readable on the page? | ✓ |
| Is the spelling, punctuation and grammar accurate? | ✓ |
| Is the vocabulary appropriate and inoffensive? | ✓ |
| Is expression clear and unambiguous? | ✓ |
| Are headings clear and do they divide content into logical sections? | ✓ |

# Browser Compatibility

|  |  |
| --- | --- |
| **Browser** | **Tick** |
| Google Chrome | ✓ |
| Safari | ✓ |
| Firefox | ✓ |
| Internet Explorer | ✓ |

# Software Functions and Techniques

|  |  |
| --- | --- |
| **Function** | **Technique** |
| Google Sheets functions | I used google sheets to manipulate the collected data and already manipulated data, in order to arrange it into a way in which ChartJS could use it to create graphs on my website. |
| ChartJS | I implemented chartJS so that data can be visualised on my website. Users may select using the buttons which graph they want to view, implementing php to echo out the required JavaScript for the selected graph. |
| Bootstrap | I implemented bootstrap in order to make my website responsive and work on devices of all screen sizes. The bootstrap classes allowed for easy and fast styling of the webpage. |
| php | The implementation of php was used in order to style different parts of templates that were used for consistency among pages. For example the navbar was kept separate from each page too keep it neater while coding, only being echoed out when loaded onto a web browser using php and being applied the appropriate classes that were defined on that page. |

# File Management

## Backups

I consistently backed up all my files onto an external hard drive every night so that is any files were lost or my computer broke I would be able to access a version of these files, even if they were a day or two old. Using time machine allowed for backing up data an easy process for both uploading files and downloading them in the case of an emergency.

At one stage during development, my device did break and prevent me from accessing all the files stored on the device. I had to send my mac into apple for them to fix, taking about 4 days. This meant I had to use a spare device I had lying around the house. I had to download the files from my hard drive onto this spare device so that I could continue work while my computer was being fixed. Once I got my computer back I was able to upload all the work I had done on the spare computer for the last 4 days onto the hard drive and then copy in all back onto my computer. Allowing me to only lose about a day worth of time in restoring my files rather than losing my entire website and having to start again.

## Naming conventions

All pages and images were named using Camel Case or snake case. They were also named appropriately for either their purpose or what they are.