4216COMP Group Project Report – Team 10

How We Chose the Data

Initially we had ideas about forestry and more specificly public opinions on forestry but then decided against it after the data we gathered was either too complex or too much to represent in its entirety. We then moved away from the idea completely and focused more upon data surrounding train information as this was much simpler and easier to represent. Eventually we decided on passenger kilometre and train ticket data because it was simplistic, easy to display and the data could be shown over a large time scale (1940s to the current day)

Potential Insights we were able to Extract

* Mean Kilometres Travelled Per Year
* Years with the Most/Least Kilometres Travelled
* Differences between the Earliest and Latest Records
* Display Certain Ticket Data Based on User Input (A specific year)
* How Ticket Prices Have Changed from the Start and End of the Data
* Possible Impact/s of Covid-19 on Certain Ticket Sales or Kilometres Travelled by Train

Algorithm Explanation

Within our data processing algorithm we used a range of python packages like matplotlib in order to represent graphs easily. Furthermore we also created code that enabled us to read from the data. This works by first opening the csv file using:

passengerKilometres = open("PassengerKilometres.csv", "r").readlines()

Next the csv reader will read the lines of the file, excepting certain characters:

dis\_reader = csv.reader(passengerKilometres, delimiter=',', quotechar='"')

The file then simply iterates through all values in the dataset and adds them to an array so they can be accessed within the program and separate if one specific value needs to be accessed:

for row in dis\_reader: pkData.append(row)

for i in range(0,3): pkData.pop(0)

pkData.pop(-1)

This code also excludes the first few lines in the dataset as these describe what the dataset is and therefore are not requred when processing the data. In order to display all the data the array just needs to be printed once the iteration has finished.

How the User Interacts with the Application

Upon starting our program the user is met with an input which asks which dataset they would like to explore. Once this has been selected, the user is met with a main menu where they can select which one of the insights they want to select for that dataset. Examples of these implementations include:

* Viewing the data in its entireity
* Finding the mean of the data
* Outputing the highest and lowest values in the data
* Viewing visualisations based on the data

How to Run the Application

In order to run our application, the user simply needs to interact with the menu to see all of the desired insights. For example when the user first runs the program they are met with 2 options:

Passenger Kilometre Data Options (1)

Passenger Revenue Data Options(2)

Which Data Would You Like to Access?

In response to this the user needs to type “1” or “2” based on what options they would like to display, any other input will be denied. After inputting what option the user would like they are then taken to the main menu:

Please Select From the Following:

Data Visualisation on a Graph (1)

Mean Values of Data (2)

Highest and lowest values of data (3)

View the data (4)

What would you like to access?

Once again the user now must choose which specific insight they would like to see by inputing the corrosponding number. After this has been inputted the user will be shown the insight then the program will end. If the user wants to navigate and view all the insights they must run the program mulitple times and select each different option.

Meeting Minutes 1-10

**Computer Science Workshop   
Meeting Minutes - 1**

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| --- | --- |
| Meeting Details | Team Number - 10 |
| Date | 25/01/22 |
| Time | 14:30 |
| Week number | 2 |

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| Agenda | Lead |
| Team meeting format | Lead tutor |
| Agree on team lead for the next two weeks | ALL |
| Identify who will create github project | Team Lead |
| Discuss data sources | Team Lead |
| Identify team strengths | Team Lead |
| Agree action points | Team Lead |

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| --- |
| List of participants |
| Ethan Hodgers, Muhammad Ahsan Gul, Ahmed Abdelwadoud |
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| Minutes |
| Agenda Topic - Team meeting format |
| In person. |
| Agenda Topic - Agree on team lead for the next two weeks |
| After brief discussion, we have agreed to appoint Ethan Hodgers. |
| Agenda Topic - Identify who will create github project |
| Ahmed will create the github project. |
| Agenda Topic - Discuss data sources |
| We browsed the gov.uk website to look for potential data sources. After discussion we decided that The Public Opinion of Forestry, Wales is a good preliminary option. It is a public opinion survey of the public’s attitudes towards Forestry, Wales as well as general forestry topics. We will browse more individually and decide upon a final choice next week. |
| Agenda Topic - Identify team strengths |
| Some team members are familiar with Python, others with Microsoft Excel. Ahmed has experience with database software. |
| Agenda Topic - Agree action points |
| For next week we will individually browse data sources and decide as a group upon a final decision as to what we are going to analyse.  Make sure everyone is present next week so that previous lack of attendance can be compensated for.  For Ahmed to set up a github repository and prepare it for our data source.  For us to individually create github accounts. |

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| Action | Lead | Contributors | Date expected | Date Delivered | Risk number |
| Make final decision upon data source. | All |  | 01/02/22 |  | 2 |
| Have everyone be present. | All |  | 01/02/22 |  | 1 |
| Set up repository | Ahmed |  | 01/02/22 |  | 2 |
| Set up accounts. | All |  | 27/01/22 |  | 1 |

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| Risk Number | Risk description | Impact | Likelihood | Mitigation |
| 2 | It’s possible we will not all agree on the same data source. | Delay, lack of morale. | Moderate. | Compromise. |
| 1 | Some members may decide against attending. | Lack of expertise/manpower. | High. | Shame. |
| 2 | Some members may be unable to access the repository. | There would be trouble communicating aspects of the project between members as they can’t see the data. Wouldn’t be able to upload data. | Low. | Other members assisting Ahmed. |
| 1 | Account verification trouble. | Members wouldn’t be able to access or view any data. | Low. | Contacting github helpline. |

Weekly Contribution Score – your contribution score over the 10 meeting will weight your percentage of the group mark for task 1 e.g. if you get 10 for each week 10 \* 10 = 100% of the task 1 score. If you get 5 each week then you will get 50% of the task 1 mark.

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| --- | --- |
| Name | Contribution Score |
| Ethan Hodgers | 10/10 |
| Sachin Sachin | 0/10 |
| Ahmed Abdelwadoud | 10/10 |
| Muhammad Ahsan Gul | 10/10 |
| Daniel Leech | 0/10 |
| Jeremy Huxley | 0/10 |

**Computer Science Workshop   
Meeting Minutes - 3**

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| --- | --- |
| Meeting Details | Team Number - |
| Date | 1/2/22 |
| Time |  |
| Week number | 3 |

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| Agenda | Lead |
| Team meeting format | Lead tutor |
| Agree on team lead for the next two weeks | ALL |
| Identify who will create github project | Team Lead |
| Discuss data sources | Team Lead |
| Identify team strengths | Team Lead |
| Agree action points | Team Lead |

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| List of participants |
| Ahmed abdelwadodud, Jeremy Huxley, dan leech, Muhammad Ahsan. |
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| Minutes |
| Agenda Topic - Team meeting format |
| This week we talked about data set and everyone is added to github except ethan. |
| Agenda Topic - Agree on team lead for the next two weeks |
| For next two week I am group leader |
| Agenda Topic - Identify who will create github project |
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| Agenda Topic - Discuss data sources |
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| Agenda Topic - Identify team strengths |
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| Agenda Topic - Agree action points |
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| Action | Lead | Contributors | Date expected | Date Delivered | Risk number |
| Getting familiar with dataset | All | All | 7/2/22 | 7/2/22 | 2 |
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| Risk Number | Risk description | Impact | Likelihood | Mitigation |
| 1 | We wont agree on same topic | low | low |  |
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Weekly Contribution Score – your contribution score over the 10 meeting will weight your percentage of the group mark for task 1 e.g. if you get 10 for each week 10 \* 10 = 100% of the task 1 score. If you get 5 each week then you will get 50% of the task 1 mark.

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| Name | Contribution Score |
| Ahmed abdelwadodud | 10/10 |
| Jeremy huxley | 10/10 |
| Dan leech | 10/10 |
| Muhammad Ahsan | 10/10 |
| Ethan | /010 |

**Computer Science Workshop   
Meeting Minutes - 4**

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| Meeting Details | Team Number - |
| Date |  |
| Time |  |
| Week number | 4 |

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| Agenda | Lead |
| Team meeting format | Team Lead |
| Agree on team lead for the next two weeks | ALL |
| Agenda Topic - Identify insights | ALL |
| Agenda Topic - Produce logical model | ALL |
| Agree action points | Team Lead |

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| List of participants |
| Muhammad Ahsan gul, Nikolas Damigos, Ethan Hogers, Jeremy Huxley, Dan Leech, Tareq Muhammad, Ahmed abdelwadoud |
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| Minutes |
| Agenda Topic - Team meeting format |
| In person |
| Agenda Topic - Agree on team lead for the next two weeks |
| Ahmed |
| Agenda Topic - Identify insights you would extract from the data and how you would enable exploration e.g. menu, keyword search, etc. (requirements). |
| Still working on it |
| Agenda Topic - Produce logical model of your dataset |
| *If your dataset is a table, then make a list of all the columns in the table along with their names, credetailed description, and units of measurement (if applicable). If the dataset consists of several tables, then additionally identify links between them. Also, highlight the columns that will be useful for your data processing application.* |
| Agenda Topic - Agree action points |
| Go through CSV files get any insights on the data |
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| Action | Lead | Contributors | Date expected | Date Delivered | Risk number |
| Go through data set | Team | All | 15/02/22 |  | 0 |
| Create github account |  | Tareq |  |  |  |
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| Risk Number | Risk description | Impact | Likelihood | Mitigation |
| 1 | no one does their research | Fall behind schedule | low |  |
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Weekly Contribution Score – your contribution score over the 10 meeting will weight your percentage of the group mark for task 1 e.g. if you get 10 for each week 10 \* 10 = 100% of the task 1 score. If you get 5 each week then you will get 50% of the task 1 mark.

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| --- | --- |
| Name | Contribution Score |
| Muhammad Ahsan | 10/10 |
| Ahmed Abdelwadoud | 10/10 |
| Nikolas Damigos | 0/10 |
| Ethan hodgers | 0/10 |
| Jeremy Huxley | 10/10 |
| Dan leech | 10/10 |
| Tareq Muhammad | 10/10 |

**Computer Science Workshop   
Meeting Minutes - 5**

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| --- | --- |
| Meeting Details | Team Number - 10 |
| Date | 15/02/22 |
| Time |  |
| Week number | 5 |

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| --- | --- |
| Agenda | Lead |
| Team meeting format | Team Lead |
| Agree on team lead for the next two weeks | ALL |
| Agenda Topic - Identify insights | ALL |
| Agenda Topic - Produce logical model | ALL |
| Agree action points | Team Lead |

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| List of participants |
| Muhammad Ahsan gul, Nikolas Damigos, Ethan Hogers, Jeremy Huxley, Dan Leech, Tareq  Muhammad, Ahmed abdelwadoud |
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| Minutes |
| Agenda Topic - Team meeting format |
| In person |
| Agenda Topic - Agree on team lead for the next two weeks |
| N/A |
| Agenda Topic - Identify insights you would extract from the data and how you would enable exploration e.g., menu, keyword search, etc. (requirements). |
| Location, impact of covid etc |
| Agenda Topic - Prepare a specification draft |
| *Based on your discussions, prepare a specification draft of your application. Namely, describe your insights into the data and what information, trends, etc., can be extracted from it. Also describe general functionality of your application, i.e., its menus, what user inputs it will accept, produced outputs, etc.* |
| Agenda Topic - Agree action points |
| Start to write up our information on the data |
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| Action | Lead | Contributors | Date expected | Date Delivered | Risk number |
| Finish looking through data | Team | All | 22/02 | 15/02 | 0 |
| Write up data | Team | All | 22/02 | 15/02 | 0 |
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| Risk Number | Risk description | Impact | Likelihood | Mitigation |
| 1 | No one writes up the data | Fall behind schedule | low |  |
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Weekly Contribution Score – your contribution score over the 10 meeting will weight your percentage of the group mark for task 1 e.g. if you get 10 for each week 10 \* 10 = 100% of the task 1 score. If you get 5 each week then you will get 50% of the task 1 mark.

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| Name | Contribution Score |
| Muhammad Ahsan | 10/10 |
| Ahmed Abdelwadoud | 10/10 |
| Nikolas Damigos | 20/20 |
| Ethan hodgers | 0/10 |
| Jeremy Huxley | 10/10 |
| Dan leech | 10/10 |
| Tareq Muhammad | 0/10 |

**Computer Science Workshop   
Meeting Minutes - 6**

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| Meeting Details | Team Number - |
| Date | 22/02/2022 |
| Time | 14:42 |
| Week number | 6 |

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| Agenda | Lead |
| Team meeting format | Team Lead |
| Agree on team lead for the next two weeks | ALL |
| Agenda Topic - Identify insights | ALL |
| Agenda Topic - Produce logical model | ALL |
| Agree action points | Team Lead |

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| List of participants |
| Jeremy Huxley, Dan Leech, Ahmed Adbelwadoud, Ethan Hodgers, Muhammad Ahsan Gul, Mikolas Damigos, Tareq Ahmed |
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| Minutes |
| Agenda Topic - Team meeting format |
| We talked about new data and what tasks people do |
| Agenda Topic - Agree on team lead for the next two weeks |
| Yes |
| Agenda Topic - Identify insights you would extract from the data and how you would enable exploration e.g., menu, keyword search, etc. (requirements). |
| * Mean kilometres travelled per year (1946 - 2021) * Years with the most/least kilometres travelled * A graph displaying how the kilometres have changed throughout the data * Possible differences between the earliest and most recent record * Display certain ticket data based on user input (between years specified by the user) * How certain ticket prices have changed from the start to the end of the data * Possible impact/s of Covid-19 on ticket sales and kilometres travelled by train |
| Agenda Topic - Prepare a specification draft |
| *Based on your discussions, prepare a specification draft of your application. Namely, describe your insights into the data and what information, trends, etc., can be extracted from it. Also describe general functionality of your application, i.e., its menus, what user inputs it will accept, produced outputs, etc.*  *There will be a menu where the user can select the option to see the different insights we have gathered from the data. It will be a numbered selection menu. The insights have been listen above but we can add more later.* |
| Agenda Topic - Agree action points |
| * Simplify CSV file into a readable state by the python program * Figure out calculations * Program menu * Program some insight calcuations (more than 1 person can do this) |
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| Action | Lead | Contributors | Date expected | Date Delivered | Risk number |
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| Risk Number | Risk description | Impact | Likelihood | Mitigation |
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Weekly Contribution Score – your contribution score over the 10 meeting will weight your percentage of the group mark for task 1 e.g. if you get 10 for each week 10 \* 10 = 100% of the task 1 score. If you get 5 each week then you will get 50% of the task 1 mark.

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| --- | --- |
| Name | Contribution Score |
| Jeremy Huxley | 10/10 |
| Dan Leech | 10/10 |
| Nikolas Damigos | 10/10 |
| Muhammed Ahsan Gul | 10/10 |
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|  | /10 |

**Computer Science Workshop   
Meeting Minutes - 7**

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| Meeting Details | Team Number - 10 |
| Date | 08/03/2022 |
| Time | 13:40 |
| Week number | 8 |

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| Agenda | Lead |
| Team meeting format | Team Lead |
| Agree on team lead for the next two weeks | ALL |
| Agenda Topic - Identify insights | ALL |
| Agenda Topic - Produce logical model | ALL |
| Agree action points | Team Lead |

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| List of participants |
| Jeremy Huxley, Dan Leech, Ahmed Adbelwadoud, Ethan Hodgers, Muhammad Ahsan Gul, Mikolas Damigos, Tareq Ahmed |
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| Minutes |
| Agenda Topic - Team meeting format |
| We talked about progression of our work and to continue working on the data |
| Agenda Topic - Agree on team lead for the next two weeks |
| Yes |
| Agenda Topic - Identify insights you would extract from the data and how you would enable exploration e.g., menu, keyword search, etc. (requirements). |
| * Mean kilometres travelled per year (1946 - 2021) * Years with the most/least kilometres travelled * A graph displaying how the kilometres have changed throughout the data * Possible differences between the earliest and most recent record * Display certain ticket data based on user input (between years specified by the user) * How certain ticket prices have changed from the start to the end of the data * Possible impact/s of Covid-19 on ticket sales and kilometres travelled by train |
| Agenda Topic - Prepare a specification draft |
| *Based on your discussions, prepare a specification draft of your application. Namely, describe your insights into the data and what information, trends, etc., can be extracted from it. Also describe general functionality of your application, i.e., its menus, what user inputs it will accept, produced outputs, etc.*  *There will be a menu where the user can select the option to see the different insights we have gathered from the data. It will be a numbered selection menu. The insights have been listen above but we can add more later.* |
| Agenda Topic - Agree action points |
| * Figure out calculations * Program menu * Program some insight calcuations (more than 1 person can do this) * Continue working on data implementations * Start work on data visualisation |
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| Action | Lead | Contributors | Date expected | Date Delivered | Risk number |
| Progress through action points | N/A | Everyone | 15/03/22 | 08/03/22 |  |
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| Risk Number | Risk description | Impact | Likelihood | Mitigation |
| 1 | No progress is made | Fall behind | Unlikely |  |
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Weekly Contribution Score – your contribution score over the 10 meeting will weight your percentage of the group mark for task 1 e.g. if you get 10 for each week 10 \* 10 = 100% of the task 1 score. If you get 5 each week then you will get 50% of the task 1 mark.

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| Name | Contribution Score |
| Jeremy Huxley | 12/10 |
| Dan Leech | 12/10 |
| Muhammed Ahsan Gul | 12/10 |
|  | /10 |
|  | /10 |

**Computer Science Workshop   
Meeting Minutes - 8**

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| --- | --- |
| Meeting Details | Team Number - 10 |
| Date | 15/03/22 |
| Time | 12:45 |
| Week number | 8 |

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| --- | --- |
| Agenda | Lead |
| Team meeting format | Team Lead |
| Agree on team lead for the next two weeks | ALL |
| Agenda Topic - Identify insights | ALL |
| Agenda Topic - Produce logical model | ALL |
| Agree action points | Team Lead |

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| List of participants |
| Jeremy Huxley, Dan Leech, Ahmed Adbelwadoud, Ethan Hodgers, Muhammad Ahsan Gul, Mikolas Damigos, Tareq Ahmed |
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| Minutes |
| Agenda Topic - Team meeting format |
| Mentioned the progress we have made and what needs to happen next to progress further |
| Agenda Topic - Agree on team lead for the next two weeks |
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| Agenda Topic - Agree action points |
| Continue to progress through the specific tasks that have been allocated.  Start to work on compiling our work together into one file  Make our own data visualisations |
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| Action | Lead | Contributors | Date expected | Date Delivered | Risk number |
| Progress through tasks | N/A | Everyone | 22/03/22 | 15/03/22 |  |
| Start compiling work together | N/A | Everyone | 22/03/22 | 15/03/22 |  |
| Work on data visualisation | N/A | Everyone | 22/03/22 | 15/03/22 |  |

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| Risk Number | Risk description | Impact | Likelihood | Mitigation |
| 1 | Issues compiling data | Fall behind | Unlikely |  |
| 2 | No progress is made | Fall behind | Very unlikely |  |
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Weekly Contribution Score – your contribution score over the 10 meeting will weight your percentage of the group mark for task 1 e.g. if you get 10 for each week 10 \* 10 = 100% of the task 1 score. If you get 5 each week then you will get 50% of the task 1 mark.

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| --- | --- |
| Name | Contribution Score |
| Jeremy Huxley | 10/10 |
| Dan Leech | 10/10 |
| Muhammed Ahsan Gul | 10/10 |
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**Computer Science Workshop   
Meeting Minutes - 9**

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| --- | --- |
| Meeting Details | Team Number - 10 |
| Date | 22/03/22 |
| Time | 12:40 |
| Week number | 9 |

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| Agenda | Lead |
| Team meeting format | Team Lead |
| Agree on team lead for the next two weeks | ALL |
| Agenda Topic - Identify insights | ALL |
| Agenda Topic - Produce logical model | ALL |
| Agree action points | Team Lead |

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| List of participants |
| Jeremy Huxley, Dan Leech, Ahmed Adbelwadoud, Ethan Hodgers, Muhammad Ahsan Gul, Mikolas Damigos, Tareq Ahmed |
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| Minutes |
| Agenda Topic - Team meeting format |
| Mentioned the progress we have made and what needs to happen next to progress further |
| Agenda Topic - Agree on team lead for the next two weeks |
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| Agenda Topic - Agree action points |
| Continue to progress through the specific tasks that have been allocated.  Start to work on compiling our work together into one file  Make our own data visualisations (graphs) |
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| Action | Lead | Contributors | Date expected | Date Delivered | Risk number |
| Progress through tasks | N/A | Everyone | 29/03/22 | 22/03/22 |  |
| Start compiling work together | N/A | Everyone | 29/03/22 | 22/03/22 |  |
| Work on data visualisation | N/A | Everyone | 29/03/22 | 22/03/22 |  |

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| Risk Number | Risk description | Impact | Likelihood | Mitigation |
| 1 | Issues compiling data | Fall behind | Unlikely |  |
| 2 | No progress is made | Fall behind | Very unlikely |  |
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Weekly Contribution Score – your contribution score over the 10 meeting will weight your percentage of the group mark for task 1 e.g. if you get 10 for each week 10 \* 10 = 100% of the task 1 score. If you get 5 each week then you will get 50% of the task 1 mark.

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| --- | --- |
| Name | Contribution Score |
| Jeremy Huxley | 10/10 |
| Dan Leech | 10/10 |
| Muhammed Ahsan Gul | 10/10 |
| Nikolas Damigos | 10/10 |
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**Computer Science Workshop   
Meeting Minutes - 10**

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| --- | --- |
| Meeting Details | Team Number - 10 |
| Date | 29/03/22 |
| Time | 12:45 |
| Week number | 10 |

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| Agenda | Lead |
| Team meeting format | Team Lead |
| Agree on team lead for the next two weeks | ALL |
| Agenda Topic - Identify insights | ALL |
| Agenda Topic - Produce logical model | ALL |
| Agree action points | Team Lead |

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| --- |
| List of participants |
| Jeremy Huxley, Dan Leech, Ahmed Adbelwadoud, Ethan Hodgers, Muhammad Ahsan Gul, Mikolas Damigos, Tareq Ahmed |
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| Minutes |
| Agenda Topic - Team meeting format |
| Focused on finalising our individual components and beginning to merge them all together |
| Agenda Topic - Agree on team lead for the next two weeks |
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| Agenda Topic - Agree action points |
| Finish off any individual components that have been allocated |
| Start to merge individual components into the menu program to create one final program  Complete individual data visualisations  Make presentation |

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| Action | Lead | Contributors | Date expected | Date Delivered | Risk number |
| Finish off tasks | N/A | Everyone | 5/04/22 | 29/03/22 |  |
| Marge work together | N/A | Everyone | 5/04/22 | 29/03/22 |  |
| Work on individual data visualisation | N/A | Everyone | 5/04/22 | 29/03/22 |  |
| Make presentation | N/A | Everyone | 5/04/22 | 29/03/22 |  |

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| --- | --- | --- | --- | --- |
| Risk Number | Risk description | Impact | Likelihood | Mitigation |
| 1 | Issues compiling data | Fall behind | Unlikely |  |
| 2 | No progress is made | Fall behind | Very unlikely |  |
| 3 | Presentation not completed | Lose marks | Unlikely |  |

Weekly Contribution Score – your contribution score over the 10 meeting will weight your percentage of the group mark for task 1 e.g. if you get 10 for each week 10 \* 10 = 100% of the task 1 score. If you get 5 each week then you will get 50% of the task 1 mark.

|  |  |
| --- | --- |
| Name | Contribution Score |
| Jeremy Huxley | 10/10 |
| Dan Leech | 10/10 |
| Muhammed Ahsan Gul | 10/10 |
| Nikolas Damigos | 10/10 |
|  | /10 |
|  | /10 |