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|  | Exploration (Mind Map) |
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|  | Development – Solution Overview and Criteria |
| **Evaluation Criteria** – Developed from the mind map and proposed problem statement.  PC – prescribed criteria  SC – self-prescribed criteria  OS – outside of scope for project   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Reference Key | Objective | Method | Reference Key | Objective | Method | | PC (1) | Can be used across multiple platforms | A setting that detects when the screen is used on a phone and that creates another drop bar to access pages | **PC (7)** | Ability to easily view location of issue | Not only the location being listed on main list but also a map where the location can be found | | PC (2) | Easy to read information | Data will be laid out in tables with their id’s that create another page with more information on it | **SC (1)** | Ability to report issue | A report page with all necessary information about the crash | | PC (3) | Information/help Page | For users to understand how to use the website and what all the terms mean | **SC (2)** | Dark Style | To prevent strain from eyes | | PC (4) | Ability to access specific data when needed | Both databases will be separated into two pages with a drop-down bar that allows the user to jump to a specific area as well as a button that takes user to the top of the page | **SC (3)** |  |  | | PC (5) | Ability to sort data | User can adjust how the data is laid out to their wanted needs |  |  |  | | PC (6) | Easy to promote or educate information about road safety |  |  |  |  |   Data Flow Diagram:  The dataflow diagram is the method to show how data is manipulated during the website when being used. The user must input a value or function and information will be collected from it.  Criteria:  The criteria table is a list of criteria’s that have been set when completing the website. The Prescribed Criteria are set by the users you requested this website and Self-prescribed criteria are set personally. |

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|  | Development – User Interface (Wireframe) |
| This is an example of one of the database wireframes. It is equipped with all the attributes of the main wireframes as well as data layout out in rows. Similarly, to the main wireframe, the page is separated into 3 main sections, these sections have been put into damage rates where inside of each section, will be a table of information. In the drop-bar, are the damage sections that you can skip to.  This was the main layout wireframe used for the pages. The top bar is listed with 5 buttons used to navigate to pages and a drop-down bar used to jump to a certain location of the page (PC4). It is also equipped with a small button always on the bottom left that allows the user to jump to the top of the page when required (PC4). The page is separated into 3 main parts where different information is stored as well as a footer on the bottom.   |  | | --- | | Semantic Structure | | Header – Title of page user has entered | | Navigation Bar – location of buttons to pages | | Main – Consists of the 3 sections | | Content – The words inside each section | | Footer – used for copyright purposes and advertising | |

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|  | Development – User Interface (Colour Schemes) |
| The Colour Schemes are used for the style of the website and chosen in a way to help the user read the information on the page,   * Header   Black for a dark mode feel   * Main Background   Grey for a dark mode feel but still gives a good contrast for the writing   * Text   White to make sure user can read it through the black and grey   * Buttons/Icons   Teal to give a nice colour a feeling to the website due to what it is used for |

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|  | Development – User Interface (Data) |
| There are two different databases used in this website, Locations.CSV and Factors.CSV. These databases consist of rows and rows of information regarding a crash incident   |  |  |  | | --- | --- | --- | | Locations.CSV | | | | Field Name | Data Type | Description | | Crash\_Severity | TEXT | Contains a specific value: Hospitalisation; Property damage only; Minor injury; Medical treatment; and Fatal | | Crash\_Year | DATE | A four-digit number for the calendar year | | Loc\_Suburb | TEXT | Name of the suburb. Each district contains suburbs | | Loc\_Police\_Region | TEXT | Name of the region. Top level geographical area. Regions contain districts. | | Loc\_Police\_District | TEXT | Name of the district. Each district contains divisions. | | Loc\_Police\_Division | TEXT | Name of the division. Each division contains suburbs. | | Loc\_Post\_Code | INT | Postcode for the suburb | | Count\_Casualty\_Fatality | INT | The number of fatalities in one accident. This is a positive integer with a default value of zero. | | Count\_Casualty\_Hospitalised | INT | The number of casualties requiring hospitalisation in one accident. This is a positive integer with a default value of zero. | | Count\_Casualty\_MedicallyTreated | INT | The number of casualties requiring medical treatment in one accident. This is a positive integer with a default value of zero. | | Count\_Casualty\_MinorInjury | INT | The number of fatalities in one accident. This is a positive integer with a default value of zero. | | Count\_Casualty\_Total | INT | The total number of casualties in one accident. This is a positive integer with a default value of zero. This value is equal to the total of the previous “Count\_Casualty\_\*” fields. |  |  |  |  | | --- | --- | --- | | Factors.CSV | | | | Field Name | Data Type | Description | | Crash\_Year | DATE | Year crash occurred | | Crash\_Police\_Region | TEXT | Name of the region where the crash occurred | | Crash\_Severity | TEXT | The most serious severity that occurred in the crash | | Involving\_Drink\_Driving | BOOL | ‘Yes’ or ‘No’ whether this factor was involved | | Involving\_Driver\_Speed | BOOL | ‘Yes’ or ‘No’ whether this factor was involved | | Involving\_Fatigued\_Driver | BOOL | ‘Yes’ or ‘No’ whether this factor was involved | | Involving\_Defective\_Vehicle | BOOL | ‘Yes’ or ‘No’ whether this factor was involved | | Count\_Crashes | INT | the number road crashes | | Count\_Casualty\_Fatality | INT | the number of fatalities | | Count\_Casualty\_Hospitalised | INT | the number hospitalised | | Count\_Casualty\_MedicallyTreated | INT | the number medically treated | | Count\_Casualty\_MinorInjury | INT | the number with minor injuries | | Count\_All\_Casualties | INT | the total of all casualties: fatality + hospitalised + medically treated + minor injury | |

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|  | Exploration – Data (Creation and Upload) |
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