**5COSC003W.2 Software Development Group Project**

**User case test plan**

1. Allow users of your application to register with username and password

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| Target | Suspected Result | Outcome Result |
| User will be able to register to the application. | The user will be able to successfully be able to register into our application. | The user has registered to our application. |
| User enters their name and surname. | The user will have entered their name. | The users name will appear in the application. |
| Numbers or special characters cannot be entered when registering you name | The user’s name is will be highlighted or a pop up will appear saying no numbers or special characters when registering you name. | The suer will need to change or edit their name to register into the application. |
| User will enter their username. (numbers and special characters are allowed). | The user will enter their username. | Username will be appeared in the application. |
| If a user’s username has been taken, they will need to change it. | The user’s username will be highlighted or a pop up will appear saying no numbers or special characters when registering you name. | The suer will need to change or edit their username to register. |
| The user will need to enter a secure password to register into the application. | The user will have entered a secure password. | The user’s password has been set for the next time they login. |
| The user will enter a valid email when registering to our application. | The user will receive an email that confirms that they have successfully registered. | The user will receive an email that confirms that they have successfully registered. |

2. Allow users to enter the application using their username and password

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| Target | Suspected Result | Outcome Result |
| User can now enter the application by using their username. | User will have entered their username. | The user will be able to successfully login. |
| User can now enter the application by using their password. | User will have entered their password. | The user will be able to successfully login. |
| If user is unable to login, they will receive a reset password or username email. | The user will receive an email to reset their username and password. N they should be able to login using their new username password. | The user can now login to the application using their new username or password. |

3. Log the user’s activity (name of user, time stamp of login and logout to the application)

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| Target | Suspected Result | Outcome Result |
| The user login time will be stamped. | The application will time stamp the user’s login time. | The login time will be stamped, and we can see what time the user has logged in to our application. |
| The user logout time will be stamped. | The application will be able to time stamp when the user logs out. | The logout time will be stamped, and we can see what time the user has logout of our application. |
| The users name will be taken down. | The user’s name will be taken down. | The user’s name will be taken down so we can identify who has logged in. |
| The users time spent on the application will be taken down. | The amount of time spent each day will be taken down as well as the total amount of time spent on the application. | The user’s time spent on the application per day will be taken down as well as the total time spent. |

4. Allow administration of the users’ data and display of user activity

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| Target | Suspected Outcome | Outcome Result |
| The user’s data will be displayed on the application. | The user will have an option to view their data on our application for example time spent on the application. | The user can view their own data. Allowing them to check what time they have login into the application. |
| The user’s activity will be recorded. | The application will record what the user activity. For example, it would record how long the user has been stationary in the traffic. | The application will be able to record the user’s activity such as how long they drive for and what route they take. |
| The application will allow us to have administration access for all our users. | The application will be able to give administration access so that we can look at our users account. For example, this could be used to change the users email or reset their account. | The administrator will be able to access the user’s account. |

5. Read traffic data from the data files into appropriate table structures which you will design – the table design can be created using SQLite (or mySQL)

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| Target | Suspected Outcome | Outcome Result |
| The application will be able to read the connection between the database and the Java application. | The application will identity the correct connects between the database and the Java applicant so that it can be used to read the correct data files for the traffic. | The application can find the appropriate file and data types that corresponds to the correct connection between the database and the application. |
| The data will be displayed if requested from the application. | Th application will find the correct data file and show a graph. | The application successfully finds the correct data file and displays it in a graph that is easy for the user to understand. |
| Application will pull graphs from the exact points form the database on order to make the graph. | The graphs will be pulled from the accurate data points form the database so a graph can be generated. | The application will display graphs that have been located to the different points in the database. |

6. Allow users to display the data graphically (you can use libraries for the graphical elements, eg JFreeChart) and query the data based on interface elements (eg menu, check box, sliders etc) of your choice.

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| Target | Suspected Outcome | Outcome Result |
| xCharts library will be correctly implemented into the application for the user. | xCharts will be used to generate our graphs based on the user’s data. | xCharts have been implemented within our application and able to make graphs. |
| The charts will have an interactable menu so that edits can be made if necessary. | All charts will have a way to edit your charts and graph by using either using check box, sliders or menu. | All charts and graphs can freely be edited by the user or the administrator. |
| The waiting time will be tested when query data from the data base. | The waiting time will be measured whenever the application query data form the database. | The waiting time will be adjusted to be quicker by finding the right query data from the database. |