

# SFWRENG 2XB3 Final Project

## Project Log

Department of Computing and Software  
McMaster University

**Team Name:** Group 8

**Topic:** NavSafe - A Safer Way To Get Around

### Team Members

| <u>Name</u> | <u>Role</u>          |
|-------------|----------------------|
| Arkin Modi  | Head of Back End     |
| Benson Hall | Team Leader          |
| Leon So     | Back-end Team Member |
| Tim Choy    | Head of Front End    |
| Joy Xiao    | Log Admin            |

| Timestamp   | Originator | Type   | Task ID | Status      | Comments  | Supporting Document(s)      |
|-------------|------------|--------|---------|-------------|---|-----------------------------|
| 190228T1500 | All        | Task   | 1       | Complete    | The project we have chosen is DriveSafe (name subject to be changed), which was first pitched by Leon.  | Collisions.csv (data file)  |
| 190228T1520 | All        | Task   | 1       | Complete    | Assigning team roles: Benson is the designated team leader, and Joy is the log admin.   | log.tex                     |
| 190307T1312 | All        | Task   | 2.2     | In Progress | Started on the requirements specification, and build the outline for the design specification. We also agreed to change our project name from DriveSafe to NavSafe. | ReqSpec.tex, DesignSpec.tex |
| 190307T1330 | All        | Update | 1       | Complete    | Adding new roles to team members. Timothy is now head of front end and Arkin is head of back end.   | log.tex                     |

| Timestamp   | Originator | Type | Task ID | Status      | Comments   | Supporting Document(s)   |
|-------------|------------|------|---------|-------------|--|--|
| 190311T1240 | Timothy    | Task | 3.1     | Complete    | Created skeleton for project using Android Studios   |  |
| 190312T2130 | Benson     | Task | 2.1     | In Progress | Created Decomposition by Secrets Table   |  |
| 190314T1230 | Leon       | Task | 4       | In Progress | Created Collision ADT and input read module  | Read.java, Collisions.java   |
| 190314T1342 | All        | Task | 5       | Complete    | Discussed which data would be excluded and included. Discussed further on plan to proceed. |  |
| 190319T2030 | Timothy    | Task | 2.1     | Complete    | Implemented Decomposition by Secrets table as a tree                                       | DecompTree.tex, De-compTree.png  |
| 190319T2030 | Leon       | Task | 4.1     | Complete    | Read module.   | Read.java  |
| 190330T2030 | Joy, Leon  | Task | 6       | In Progress | Start sorting. Modified ADT.   | Sort.java. Decided to sort the information according to Severity Code, then fatalities, then number of severe injuries, then number of injuries. |

| Timestamp   | Originator | Type | Task ID | Status      | Comments  | Supporting Document(s)                       |
|-------------|------------|------|---------|-------------|---|--|
| 190330T1554 | Joy, Leon  | Task | 4.2     | Complete    | Completed ADT + reading data into ADT. Added compareTo() in Collisions ADT for sorting. | Collisions.java                              |
| 190330T1740 | Timothy    | Task | 7       | Complete    | Created Google Maps API key   | google_maps_api.xml                          |
| 190330T1748 | Leon       | Task | 8       | Complete    | Create parsing module to write CSV file for collisions containing complete data.        | ReadWrite.java                               |
| 190331T1558 | Benson     | Task | 9       | Complete    | Edge-weighted digraph and shortest-path algorithm modules created.                      | CollisionEWD.java,<br>DijkstraSP.java        |
| 190331T1635 | Leon, Joy  | Task | 6       | Complete    | Completed sorting module. Mergesort. Completed compareTo() for sorting.                 | Collision.java,<br>Sort.java                 |
| 190331T2353 | Arkin      | Task | 2.1     | In Progress | Finished multiple sections.   | ReqSpec.tex                                  |
| 190401T1148 | Leon       | Task | 10      | Complete    | Finished ADT for Seattle intersections and corresponding read module.                   | Intersection.java,<br>ReadIntersections.java |

| Timestamp   | Originator | Type | Task ID | Status      | Comments   | Supporting Document(s)                   |
|-------------|------------|------|---------|-------------|--|--|
| 190401T2235 | Arkin      | Task | 2.2     | In Progress | Created skeleton for the Design Specification.             | DesignSpec.tex                           |
| 190401T2334 | Leon       | Task | 11      | In Progress | Start search algorithm and module.                         | Search-Collision.java                    |
| 190403T0022 | Arkin      | Task | 12      | In Progress | Added Requirement Specifications to Final Presentation.    | Group08_Project-Presentation.tex         |
| 190403T1311 | Leon       | Task | 11      | Complete    | Completed search module.                                   | Search.java                              |
| 190403T1311 | Leon       | Task | 4.2     | Complete    | Update ADTs.   | Collision.java, Intersection.java        |
| 190403T1410 | Benson     | Task | 13      | In Progress | Created Edge ADT   | Edge.java                                |
| 190403T1448 | Leon       | Task | 14      | Complete    | Completed Street ADT and corresponding module.             | Street.java, Read-Streets.java           |
| 190403T1751 | Leon       | Task | 15      | Complete    | Completed MakeGraph module and SearchIntersections module. | MakeGraph.java, SearchIntersections.java |
| 190403T1833 | Arkin      | Task | 12      | In Progress | Completed multiple sections for the final presentation.    | Group08_Project-Presentation.tex         |
| 190403T1900 | Benson     | Task | 13      | Complete    | Completed Graph Module                                     | EdgeWeighted Graph.java                  |
| 190403T1931 | Benson     | Task | 16      | Complete    | Debug modules  |  |

| Timestamp    | Originator    | Type | Task ID | Status      | Comments  | Supporting Document(s)                           |
|--------------|---------------|------|---------|-------------|---|--|
| 190403T2153  | Benson, Arkin | Task | 12      | Complete    | Completed final presentation slides.  | Group08_Project-Presentation.tex                 |
| 190403T2350  | Benson        | Task | 17      | Complete    | Completed custom Dijkstra's shortest-path algorithm   | DijkstraSP.java                                  |
| 1904010T1706 | Joy           | Task | 18      | Complete    | Completed unit testing.   | TestSorts.java, TestReads.java, TestSearch.java  |
| 1904010T1706 | Leon          | Task | 19      | Complete    | Created and completed sorting for intersections dropdown menu. Added compareTo() function in Intersection.java. | Intersection.java, SortIntersectionDropDown.java |
| 1904012T1145 | Arkin         | Task | 2.1     | Complete    | Completed the Requirements Specification  | ReqSpec.tex                                      |
| 1904013T0010 | Arkin         | Task | 2.2     | In Progress | Completed everything except the UML State Machines for the Design Specification                                 | DesignSpec.tex                                   |