Table 1: Revision History

Date	Developer(s)	Change
Sept. 26, 2016	Christopher, Varun	Initial development plan
Sept. 28, 2016	Varun	Formatting, Introduction and Git Workflow

SE 3XA3: Problem Statement
Spann

Team 8
Christopher Stokes — stokescd
Varun Hooda — hoodav

This document outlines some key points regarding the development of this project. The points discussed related to the way the team will work (meetings, workflow, communication) and how the project will undergo development and progress as time goes on.

1 Team Meeting Plan

The team will meet on a weekly basis on Tuesday afternoons on campus (exact location and time is up to the discretion of the team members). The meetings will allow the team to express any concerns, discuss upcoming deadlines/milestones, and discuss the work plan for the upcoming week. Team members will alternate as the chair for each meeting. The char will be responsible for creating an appropriate agenda for the weeks meeting and for directing the meeting.

2 Team Communication Plan

The primary means of communication will be Google Hangouts. Issue tracking on gitlab will be used for formally discussing any issues with the project.

3 Team Member Roles

There will be no team leader due the small team size. A team member may lead the team for a particular task if the team member is experienced in that particular task.

Christopher Stokes Primarily work on backend server code, as well as some work on the custom framework that will be used and on some frontend code. Will be the expert on the technologies used on this project.

Varun Hooda Primarily work on frontend code, as well as on the custom framework. Will be the expert on LaTeX

4 Git Workflow Plan

Git and Gitlab will be used to manage the project's documentation and code base. The team will use a single repository (no forks) with all developers contributing to the same code base. Git branches will be used to reduce conflicts between different incomplete features The team will attempt to commit and push changes frequently. Labels will be used to differential or highlight particular milestones.

5 Proof of Concept Demonstration Plan

During the demo, the majority of problems could arise from issues connecting to the server or database due to firewall or network preferences. To ensure that this does not occur during the demo, the server and database will be hosted locally on the computer running the web app. This minimises all connection issues as the connection is local so the firewall and outside network will have no effect on the connection.

6 Technology

The project will use modern web technologies for the frontend: HTML5, CSS3 (compiled from LESS) and JavaScript. The backend server will run C# code and use the PostgreSQL object-relational database management system (ORDBMS) to store and retrieve data. A custom JavaScript web framework will also be used to create the frontend website (to avoid manually writing HTML).

7 Coding Style

- ECMA5 Script Standard for JavaScript

- LESS Standard for LESS files

- Microsoft Coding Conventions for C#

8 Project Schedule

Provide a pointer to your Gantt Chart.

9 Project Review