

ECpE 491 – Weekly Report #7

Mar 19 – Apr 2

Project Title	Interactive evaluation of shortest path methods
Client & Advisor	Goce Trajcevski, Mengxuan Zhang
Team	sddec23-14
Team Members	Alex Blomquist, Samuel Caldwell, Selma Saric, Yadiel Johnson

1 Report

(Note: this report period is double the usual duration.)

1.1 Abstract

The “Project Plan” and “Design Talk” documents (and their associated presentations) were completed in these two weeks.

1.2 Work Breakdown

The previous week, our team worked on developing the “Project Plan” document. This document proved to be challenging for various reasons, namely the time scheduling, tasks and milestone derivations. Ultimately, we agreed on how to properly fill each section in a way that felt appropriate for the team.

Then in this week, the team finalized the core tenants of our “Design Talk” document. Lengthy discussions took place regarding the approach we would take and how we could solve various challenges. Seeing as this is the main content of the comprehensive “Design Document”, there was an added focus on quality and clarity. The process of creating this included designing a Lotus Blossom and Block Diagram that could convey some of these ideas accurately, as well as discussing with our client how we should frame the document as a whole considering the fact that some sections were only loosely related to our project.

1.2.1 Major accomplishments

- Completed the “Project Plan” document and its presentation.
- Completed the “Design Talk” document and its presentation.

1.2.2 Pending issues

- N/A

1.2.3 Individual contributions

Name	Individual Contributions	Worked Hours	
		This Week	Cumulative
Alex Blomquist	<ul style="list-style-type: none"> • Completed the following sections of the “Project Plan” document: <ul style="list-style-type: none"> ○ <i>Project Milestones, Metrics, and Evaluation Criteria</i> ○ <i>Initial development of Risks, Management & Mitigation alongside Samuel Caldwell</i> ○ <i>Initial development of Personnel Effort Requirements alongside Samuel Caldwell & Selma Saric</i> • Creation and initial formatting of Lighting talk for Project Plan • Assisted Yadiel Johnson adaptation of section 1 and 3 from the “Project Plan” document for the “Project Plan Presentation” slides. • Completed the following sections of the “Design Section” document: <ul style="list-style-type: none"> ○ Assisted in sections of Broader context i.e. (Public Health, safety, & welfare) ○ Design Decisions ○ Technical Complexity ○ Decision-Making and Trade-off (Including generation of a Decision Matrix for the UI) ○ Areas of Concern and Development • Creation and initial formatting of Lighting talk for Design Section 	10	30

<p>Samuel Caldwell</p>	<ul style="list-style-type: none"> • Completed the following sections of the “Project Plan” document: <ul style="list-style-type: none"> ○ <i>Initial development of Risks, Management & Mitigation alongside Alex Blomquist</i> ○ <i>Initial development of Personnel Effort Requirements alongside Alex Blomquist & Selma Saric</i> • Adapted section 5 and 6 from the “Project Plan” document for the “Project Plan Presentation” slides. • Completed the following sections of the “Design Section” document: <ul style="list-style-type: none"> ○ <i>Assisted in section 1.1.2 - User needs alongside Selma Saric</i> ○ <i>Section 1.1.3 - Prior works/solutions</i> • Adapted sections 1.1.2 and 1.1.3 from the “Design Section” document into the “Design Section” Presentation 	<p>8</p>	<p>25</p>
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<p>Selma Saric</p>	<ul style="list-style-type: none"> • Completed the following sections for the “Project Plan” document: <ul style="list-style-type: none"> ○ <i>Task Decomposition: Section 2.1.2</i> ○ <i>Gantt Charts for the first and second semesters of Senior Design</i> ○ <i>Other Resource Requirements</i> • Completed the following sections for the “Design Section” document: <ul style="list-style-type: none"> ○ <i>Portion of the Broader Context section</i> ○ <i>Assisted in section 1.1.2 – User Needs alongside Samuel Caldwell</i> ○ <i>Section 1.2.2 Ideation – Created Lotus Blossom diagram breaking down our project problem and solutions to these problems.</i> ○ <i>Section 2.2 – Lotus Blossom Diagram</i> • Adapted Section 1.2.2 from “Design Section” document into “Design Section” presentation. • Filled out meeting minutes document. • Filled out section 2.2 of this report. 	<p>10</p>	<p>31</p>
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Yadiel Johnson	<ul style="list-style-type: none"> • Completed the following sections of the “Project Plan” document: <ul style="list-style-type: none"> ○ <i>Project Management & Tracking Procedures.</i> ○ <i>Task Decomposition</i> (excluding section 2.1.2) alongside Alex Blomquist. ○ Detailed the “backend” portions of the <i>Project Schedule, Semester 2</i> section. • Adapted sections 1, 2, and 4 of the “Project Plan” document for the “Project Plan Presentation” slides. • Completed the following sections of the “Design Talk” document. <ul style="list-style-type: none"> ○ Portion of the <i>Broader Context</i> section. ○ <i>Technical Complexity.</i> ○ <i>Design Visual.</i> ○ <i>Functionality.</i> • Updated team website with recent documents and added section for <i>Lightning Talks</i> slides. • General formatting and quality assessment for the “Project Plan”, “Design Talk” documents and their associated presentations. • Section 1: Report and overall development for this weekly report. 	10	40
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2 Comments and extended discussion

2.1 Work Planned for Next Week

2.1.1 Collective

The next step for our project is developing the test document draft sections independently from the course itself. Then, the team will prepare our *Lightning Talk* regarding the “Testing Plan” document detailed in the last report.

2.1.2 Individual

- Alex Blomquist
 - Assist in the integration of previous design documents into our final design document
 - Perform additional research on the integration and acceptance testing required for the project
 - Integrate the research findings into the testing design documentation

- Samuel Caldwell
 - Continue adding to the design document and integrating previous sections.
 - Continue practicing presentation using the speaker notes.
 - Continue adding to the Senior Design website.
- Selma Saric
 - Create the next *Lightning Talks* presentation.
 - Continue working on the design document and integrating previous sections.
 - Continue working on the meeting minutes document.
- Yadiel Johnson
 - Further refinements to the “Draft Design Document”.

2.2 Summary of weekly advisor meeting

For our meeting on 03/23, the week the Project Plan document was due, our weekly advisor meeting consisted of getting advice on our Project Plan based on what we had already and had not yet filled in. There were a few problems with wording that we needed to fix, but the advice mainly consisted of organization and formatting tips. We also met briefly with our secondary advisor Mengxuan and discussed some details of different algorithm implementations we will be told to look at and use for our project during the second semester.

For our meeting this week on 03/30, our weekly advisor meeting also consisted of getting advice on our Design Section document. Our advisor helped us with wording issues and advised us on formatting.