

# ECpE 491 – Weekly Report #9

## Apr 9 – Apr 16

|                  |  |
|------------------|--|
| 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

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### 1.1 Abstract

As the design document nears conclusion for the first semester, the team has focused on improving each section and preparing for the final presentation.

### 1.2 Work Breakdown

This week, the team focused on perfecting the various parts of the design document in anticipation for the final presentation.

Further integration with the engineering standards laid out in previous documents was done to make the design document itself more robust. This includes citations and a comprehensive literature review of these standards to ensure that any suggestions made within them have been addressed. Then, the knowledge gained in that process was used to further refine the wording and content of various sections. Key changes for this week include adding a proper *Stakeholders* section in accordance with IEEE 42010 and further developments on the *Testing* section with IEEE 29119. It is important to note that these are just revisions to previous iterations of these sections, and for the most part serve as “more specific” versions.

Refinements to items such as figures and tables were discussed with the project’s client, alongside other document suggestions and presentation tips.

Finally, supporting documentation is currently being developed for the final presentation. This includes a mock user interface and the PowerPoint slides for the presentation. The goal is to showcase the interactive parts of this system in a way that faculty can appreciate the work performed throughout this semester. Extra focus will be dedicated to these as the presentation date nears.

**1.2.1 Major accomplishments**

- IEEE 42010 and 29119 engineering standards are now properly referenced in the documents.
- Extensive improvements and refinements across the entirety of the draft design document, including clarity and visuals.
- Previous graphics (e.g., the Lotus Blossom Diagram) have been revised.
- The wireframe diagram (or the mock user interface) and the faculty presentation PowerPoint slides are currently in development.

**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"><li>• Revisions of various sections of the Design sections of our final document with Yadiel Johnson</li><li>• Assisted in the integration of the testing section into the Final Design document.</li><li>• Instantiation and initial formatting of the final presentation with Samuel Caldwell</li><li>• Revisions to the Lotus Blossom’s formatting and wording</li></ul> | 6            | 41         |
| Samuel Caldwell | <ul style="list-style-type: none"><li>• Revisions of various sections of the Final Design Document</li><li>• Assisted in formatting and revising the final presentation with Alex Blomquist</li></ul>   | 5            | 36         |
| Selma Saric     | <ul style="list-style-type: none"><li>• Began working on a wireframe/mock UI on Figma to draw out what every page of our web application will look like.</li><li>• Collaborated on editing part of the final design document.</li><li>• Filled out meeting minutes document.</li></ul>  | 6            | 45         |

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|----------------|---|---|----|
| Yadiel Johnson | <ul style="list-style-type: none"> <li>• Update the <i>Intended Users &amp; Use Cases</i> section of the draft design document to further define the stakeholders and their expectations.</li> <li>• Rewrite various paragraphs to use nouns instead of pronouns for consistency.</li> <li>• Revise and merged the following sections of the draft design document: <ul style="list-style-type: none"> <li>○ <i>Project Plan</i></li> <li>○ <i>Design</i></li> </ul> </li> <li>• Extensive reformat of the following sections of the draft design document: <ul style="list-style-type: none"> <li>○ <i>Table of Contents</i></li> <li>○ <i>List of Figures and List of Tables</i></li> <li>○ <i>Testing</i></li> <li>○ <i>Team Contract</i></li> <li>○ Every figure and table in the document.</li> </ul> </li> <li>• In-depth review and retroactive citation of: <ul style="list-style-type: none"> <li>○ <i>ISO/IEC/IEEE 42010:2022(E)</i></li> <li>○ <i>ISO/IEC/IEEE 29119:2022(E)</i></li> </ul> </li> <li>• <a href="#">Section 1: Report</a> and overall development for this weekly report.</li> </ul> | 9 | 57 |
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## 2 Comments and extended discussion

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### 2.1 Work Planned for Next Week

#### 2.1.1 Collective

The next step for our project is to finish integrating all the previous design document sections we completed into one final design document and finishing the mock UI. Additionally, we need to begin preparing for our final presentation to the board on Thursday, May 4th.

#### 2.1.2 Individual

- Alex Blomquist
  - Finish wording changes on Lotus Blossom.
  - Continue revisions on testing section of final design document.
  - Continue refinement of slides and speaker notes on final design presentation.
  - Research additional SP algorithms and their potential future additions into the project
- Samuel Caldwell
  - Continue revising the final design document.
  - Continue revising the slides and speaker notes for the final presentation.
  - Continue practicing for the final presentation.
- Selma Saric
  - Continue working on the final design document.

- Continue working on the final presentation.
- Continue working on the wireframes/mock UI.
- Continue working on the meeting minutes document.
- Yadiel Johnson
  - Further refinements to the “Draft Design Document”.
  - Find ways to best integrate the engineering standards into the document.

## **2.2 Summary of weekly advisor meeting**

For our meeting this week on 04/13, we met with our client, who offered feedback on what we should add to our design document to have something more tangible to show the panel for our final presentations, such as a mock UI. There was also some discussion regarding our final design document, and we received and implemented feedback from the client.