**Senior Project Proposal**

**Department of Computer Science**

**Calvin College**

Title: MIAA Scouting Report

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Mentor: Professor Victor Norman

Honors Project: n/a

# Vision and General Overview of Proposal

## Background and Problem

<Discuss the general domain and the significance of the problem and why it’s important to be addressed.>

## Brief Description of Solution Being Provided

<Provide an overview of the solution such as its features and exactly how it will solve the problem discussed.>

## Your Interest and Qualifications

<Discuss why you have an interest in this area and what are your qualifications that make you believe will lead to successful completion.>

# Mentor Selection, Expert User and Collaboration

<Who is your mentor and why was the mentor selected? Who else is providing you domain guidance and feedback about your progress? What are their qualifications? Are you collaborating with another person or organization? If so, who are they, and what is their involvement? Also, note in the risk management section any dependencies you have on them that could impact your ability to complete the project.>

# Research Question

<Describe the research question that you’ll be addressing. This portion is particularly important for honor projects, which must include significant, publishable work.>

# Development Approach

<Describe what you know of or anticipate as an approach to the solution. Will this be a phased approach, iterative, exploratory etc? >

# Quality Assurance

## Critical Delivery Dates

<Review the critical dates shown in the course website schedule and make adjustments as necessary with your mentor’s approval. >

## Reviews

<What type of reviews do you plan on conducting, and when do you plan to conduct them and who will be involved?>

## Testing

<Discuss your approach to testing. When do you plan to submit a test plan? >

# Resources

<Provide an estimate or description of resources you believe are needed. Mark “N/A” to the ones that are not applicable.>

|  |  |  |
| --- | --- | --- |
| **Resource** | **Source/Provider** | **Cash Cost** |
|  |  |  |
|  |  |  |
|  |  |  |
| **Total Cash Cost** | ------------------------------ | $$$$ |

# Risk Analysis

<Risk analysis is simply understanding the exposure to elements that could prevent success for the project. Then you determine how to mitigate that exposure. Work through each of the points below and ask yourself about the potential exposure to each risk. If it exists, discuss how you will manage or mitigate the risk. Feel free to add to the table as necessary.>

|  |  |  |
| --- | --- | --- |
| **Risk** | **Exposure Analysis** | **Mitigation Strategy** |
| Do you have a dependency on others completing work for your project to be a success? | <discuss the likelihood of this happening, or enter N/A> | <discuss how you will manage this issue if the exposure is significant> |
| Is there any doubt about the availability of financial resources? | “ | “ |
| Do you have a dependency on an expert user to provide advice and who may not always be available at critical times? | “ | “ |
| If success depends on testing by an outside source, are there any barriers to completing testing? | “ | “ |
| Will this project involve new skills for you? | “ | “ |
| Will there be anything preventing you from investing at least twenty hours a week on this at a minimum? | “ | “ |
| Is there any potential of physical resources you have listed of not being available? | “ | “ |
| Other | “ | “ |

**Appendix A**

**Test Plan**

<These are areas of consideration for you. Address only those areas that are applicable>

# Unit Testing

## General Approach

## Equipment/Resources

## Testers/Volunteers

# Function Testing

## General Approach

## Equipment/Resources

## Testers/Volunteers

# System Testing

## General Approach

## Equipment/Resources

## Testers/Volunteers

# Acceptance Testing

## General Approach

## Equipment/Resources

## Testers/Volunteers