

CSCI 370 Final Report

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Revised May 23, 2023

[optional graphic or logo]

CSCI 370 [semester] [year]

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Table 1: Revision history

**This will be updated with each submission**

|  |  |  |
| --- | --- | --- |
| Revision | Date | Comments |
| New | May 27, 2020 | Completed Sections:   1. Introduction 2. Functional Requirements 3. Non-functional Requirements 4. Risks 5. Definition of Done 6. Team Profile   References  Appendix A – Key Terms |
| Rev – 2 | July 3, 2020 | Updated Sections   1. Introduction 2. Functional Requirements 3. Non-functional Requirements   Completed Sections:   1. System Architecture |
| Rev – 3 | August 20, 2020 | 1. Minor typos and references |

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# I. Introduction

NOTE: Update this section as the design progresses and research continues

Context of the project

1. High level scope/description of the project
   1. What is the purpose/goal?
2. Client
   1. Who are they?
   2. Why do they want/need this?
3. If applicable, previous software revisions
   1. What is the basis of existing software platform?
   2. Who developed existing software platform?
   3. Why is there a need for continued effort?
4. If applicable, source of data
5. If applicable, description of hardware interface
6. Description of definitions, acronyms and abbreviations
7. Who will be the stakeholders/users of software?
8. Who will be responsible for maintaining software?

# II. Functional Requirements

NOTE: Update this section as the design progresses and research continues

Highlight critical functional requirements

Elements must be specific and testable

Avoid subjective requirements (e.g., easy to use)

While introducing table, discuss critical functional requirements and/or any critical relationships between requirements

# III. Non-Functional Requirements

NOTE: Update this section as the design progresses and research continues

The above functional requirements are supported by non-functional requirements (also known as quality requirement), which impose constraints or design or implementation

Examples include performance requirements, cost constraints, security or reliability.

# IV. Risks

Assess the risk associated with both technical and skills related issues.

For each risk identified discuss:

* Likelihood (Unlikely, Likely, Very Likely)
* Impact (Minor, Moderate, Major)
* Risk mitigation plan

# V. Definition of Done

* List of minimal useful feature set
* Describe any tests that client will run before accepting software
* Specify how/when product will be delivered

# VI. System Architecture

Discuss the fundamental foundation of the system architecture before introducing. If using 3rd party elements, be sure to include how they integrate into architecture.

Depending on your project, your system architecture might be best described as an:

* architecture diagram
* UML diagrams
* database schema
* flowcharts,
* finite state automata
* wireframes (screen layouts)
* other relevant figures or a combination of any of the above

# VII. Software Test and Quality

Reference the functional and non-functional requirements when creating this plan. There should be a corresponding test plan for every requirement.

Every test plan should include:

* Purpose of test
* Description of test
* Tools utilized/required for test
* Threshold for acceptability – relate to requirement specification
* Edge Cases
* Results of testing

# VIII. Project Ethical Considerations

# IX. Project Completion Status

Summary of project completion.

* Features implemented and summary of feature performance
* Features not implemented

# X. Future Work

Recommendations for future work. Be sure to include:

* Resources required (hardware, software, licensing, etc.)
* Knowledge/skills required
* Estimate of time required to implement

# XI. Lessons Learned

# XII. Acknowledgments

* Thank your client and technical advisors

# XIII. Team Profile

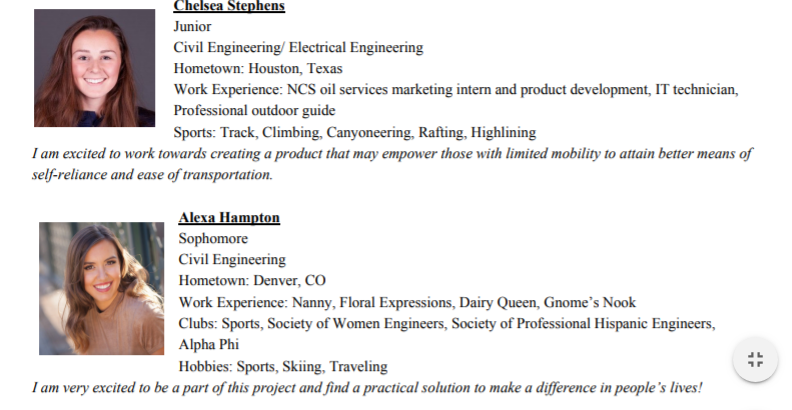
Headshot of team member (optional)

Software/Engineering Discipline

Hometown

Work Experience

Sports/Activities/Interests



# References

All references must be numbered in the order they are cited within the text

Formatted per IEEE format

Be sure to include citations for interviews.

Example:



# Appendix A – Key Terms

Include descriptions of technical terms, abbreviations and acronyms

|  |  |
| --- | --- |
| **Term** | **Definition** |
| *[Insert Term]* | *[Provide definition of the term used in this document.]* |
| *[Insert Term]* | *[Provide definition of the term used in this document.]* |
| *[Insert Term]* | *[Provide definition of the term used in this document.]* |