**Your Project Title**

**Project Requirements Specifications**

Your Sponsor



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**Mentor(s):**

(Your mentor’s name(s) )

**Your Team’s Name**

(Provide a list of team members)

Course: CptS 421 Software Design Project I

Instructor: Sakire Arslan Ay

**Note**: Recall that this writing assignment says:

Length = 3 pages text+ appendixes as needed. Cover page, table of contents, pictures, images, use-case UML diagrams do not count for the 3 pages text.

As shown in the Syllabus, this assignment carries a weight of 15% for the final course score.

Posted as a single self‐contained file (no links to outside resources.)

Posted as a PDF file.

Typed single‐spaced.

Typed with black text.

Typed with #11 font size.

Typed using Arial font.

Typed with one inch margins on sides, top and bottom.

**(Please erase this page in your final document.**

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# Introduction

Provide a brief description of your project and summarize the objectives.

Include a paragraph where you list the sections included in this document. i.e.

*Section II includes …*

*Section III includes …*

# System Requirements Specification

In this section you will describe the features, functions and other specifications that are requirements for your product. You will also specify the client/stakeholder need(s) that requirement maps to.

Please refer to Section 4.4 in the CptS323 textbook “Object-Oriented Software Engineering” to refresh your knowledge on software requirements.

## Use Cases

If applicable, provide some major use-cases that illustrate scenarios for using your product. Use cases tell a story about how an end user interacts with the system under a specific set of circumstances. You may illustrate the use-cases with UML diagrams.

For each use case, identify the related requirements (you may directly refer to the requirements listed in Section II.2).

(Note that the diagrams will not be counted for the 3 pages text length specified for this document.)

## Functional Requirements

List the functional requirements in this section.

Include a subsection for each main part/module of your product and list the requirements for the module in that subsection. (*Please note that we are not considering any design issues yet. Each module (subsection) refers to a major part/functionality of the product, not to sub-section in the architecture. This classification of requirements is intended to improve the readability of the document.*)

Briefly describe each requirement and specify the client/stakeholder need(s) that requirement maps to. Each requirement should appear in ONLY ONE sub-section of the document.

Here is an example template for requirement specification: (*the requirement template is formatted with blue for readability. Please remove the color formatting in your document*.)

### [The name of the module/component/part]

List your requirements for this project module here. Each listed requirement MAY INCLUDE the following items:

**[Enter a Concise Requirement Name]:** [provide a concise description, in clear and easily understandable language to specify the requirement]

**Source**: [specify who/what originated this requirement, specify the client/stakeholder need(s) that requirement maps to]

**Priority**: [specify the priority of this requirement, you may use the following scale to specify priority of the requirements: Priority Level 1: Essential and required functionality, Priority Level 2: Desirable functionality, Priority Level 3: Extra features ]

Repeat the above for each requirement.

### [The name of the next module/component/part]

List your requirements for the next project module here based on the requirements template described above. Include a subsection for each part.

## Non-Functional Requirements

List the non-functional requirements in this section. Non-functional requirements define system properties (e.g. reliability, response time and storage requirements, etc.) and constraints (e.g. I/O device capability, system representations, etc.)

Process requirements may also be listed here (e.g. specifying a particular programming language or development method.)

Please refer to Section 4.4.7 in the book “Object-Oriented Software Engineering” for example categories of non-functional requirements.

You may use the following template for non-functional requirements (Please remove the color formatting in your final document):

**[Enter a Concise Requirement Name]:** [provide a concise description, in clear and easily understandable language to specify the requirement]

# System Evolution

This should describe the fundamental assumptions on which your project is based, and any anticipated changes due to hardware evolution, changing user needs, and so on. This section is useful as it may help avoid design decisions that would constrain likely future changes to your project.

# Glossary

Define technical terms used in the document.

# References

Cite your references here.

For the papers you cite give the authors, the title of the article, the journal name, journal volume number, date of publication and inclusive page numbers. Giving only the URL for the journal is not appropriate.

For the websites, give the title, author (if applicable) and the website URL.