Project Proposal

Software Architecture

Semester 1, 2025

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Project Context

During the software architecture course, you will learn about a subset of quality attributes of concern to software architects. You will also learn about a number of techniques to satisfy these attributes. In the capstone project you are required to

- · propose a non-trivial software project,
- · identify the primary quality attributes which would enable success of the project,
- · design an architecture suitable for the aims of the project,
- · deploy the architecture, utilising any techniques you have learnt in or out of the course, and
- evaluate and report on the success of the software project.

The successful completion of the project will result in four deliverables, namely:

- i A proposal of a software project, the proposal must clearly indicate and prioritise two or three quality attributes most important to the project's success.
- ii A presentation describing the software architecture, contrasting it with viable alternatives, and critiquing the architectural design.
- iii The developed software, as both source code, and a deployed artefact.
- iv A report which evaluates the success of the developed software relative to the chosen quality attributes.

Your software deliverable includes all supporting software (e.g. test suites or utilities) that are developed to support the delivered software.

1 Introduction

We have looked at several core quality attributes in this course, and will continue to look at more over the remainder of the semester. These attributes were selected because they are key concerns of many real-world software projects. In this project, you will have an opportunity to explore some of the fun of industry. You will take the role of an entrepreneur, software architect, developer, and operations team.

Your first role as an entrepreneur is to use your creativity to think of a software project that interests you. Your proposed project does not have to be profitable, nor does it have to be unique. If you are struggling to think of a project, consider what annoys you in your day-to-day life. Consider if software might help ease the annoyance. Alternatively, look at existing everyday software like Netflix, TikTok, VSCode, or others. You are welcome to create off-brand versions of any existing software. There are no marks for whether the software is unique, or would be profitable or successful. The lone requirement of your project is that, to function appropriately, it must demonstrate two or three of the quality attributes explored in this course¹.

¹No, simplicity is not allowed.

Briefly, some of these attributes are:

Availability The software can be accessed on demand by end users, either at any time or on any platform, or both. You need to define what "on demand" means for your system and how it will be measured.

Deployability The required computing infrastructure for the software can be easily provisioned, including updating both the infrastructure and the software.

Extensibility Features or extensions can be easily added to the software over its lifespan.

Interoperability The software can easily share information and exchange data with internal components and other systems.

Maintainability The software is designed to be cost effectively modified over an extended lifespan.

Modularity Components of the software are separated into discrete modules.

Reliability The software consistently delivers its functionality without failure. You need to define what "consistently" means for your system and how it will be measured.

Scalability The software is simultaneously usable by a large number of end users and is economical to deliver with varying user loads.

Security Software that maintains normal operations and functionality even when subjected to attacks. Systems and resources in its environment remain safe and the attacks are detected and mitigated.

Testibility The software is designed so that automated tests can be easily deployed. This is beyond just implementing automated unit testing.

While security may be an appropriate quality attribute to use as the focus of your project, *all* software systems must be developed to be "secure enough" for the context. Consequently, it is expected that all projects will consider security, even if it is not fundamental to the project's success.

Once you have settled on a project, write up a proposal for the project, as described in section 2. If you have questions about your idea and its suitability, please discuss the idea with teaching staff (e.g. in the discussion forum), this will help ensure you do not have to re-write it from scratch.

2 Content

Your proposal will answer the following questions:

- What is your project?
- · Which quality attributes are most important and why?
- If trade-offs are necessary, which attributes have higher priority?
- What are the basic features you plan to implement?
- How will you evaluate whether your project has delivered its important quality attributes?

The proposal should not exceed 1200 words. The required proposal structure is as follows.

Title Name for your project, get creative.

Abstract An elevator pitch to sell the project. This should highlight the quality attributes crucial to the project's success.

Author Your name and student number.

- **Functionality** Summary of the features delivered by the complete software product. This is what would be delivered if you built the entire system. Use this to sell why your project is fun or interesting.
- **Scope** Description of the fundamental functionality to be delivered as the Minimum Viable Product (MVP)². This is what you have to implement, so be realistic!
- **Quality Attributes** A more detailed description of the quality attributes and why they are crucial to the project. They should be measurable and/or testable.
- **Evaluation** Description of how you will evaluate whether your project has achieved the desired attributes. This is one of the most important parts of the proposal. It must be clear how the evaluation will be done, and it must be feasible.

You are provided with a template for your proposal on GitHub. You must not change the template structure. (e.g. Do not change the levels of provided headings. Do not add any new headings at the same level as the existing headings.) You may add new sub-headings under existing headings.

3 Submission

The following are *important* details about how your proposal must be submitted. Read the following carefully, misreading or misunderstanding the requirements does not except you from them.

- Your proposal is due by **15:00 on March 21**. Late submissions will be penalised by one grade per 24-hour period. See the course profile³ for details. The maximum extension length is **7 days**.
- Your proposal must be written in markdown⁴. You must follow the template provided in your directory.
- Submission of the proposal component of the assignment is via a GitHub repository⁵.
- You have been provisioned a directory in the GitHub repository⁶, where you should place your markdown file and any assets (images, code snippets, etc) that are included by the markdown file.
- Your directory contains a template markdown file named proposal.md. Do **not** change the formatting of the template. Insert your proposal content under the headings provided.
- Only what is in your directory in the main branch at the submission deadline will be marked and made available for voting.
- Please validate that your proposal renders sensibly on the proposal website: https://csse6400.github.io/project-proposal-2025/
- You can view example proposals at https://csse6400.github.io/project-proposal-examples/.

Below is a possible structure of your directory. The proposal.md file may have relative references to the images and files in the assets directory.

https://www.agilealliance.org/glossary/mvp/

³https://course-profiles.uq.edu.au/student_section_loader/section_5/132140

⁴https://www.markdownguide.org/

⁵It is important that you are continually keeping GitHub up to date with your progress. Keeping up to date will avoid any merge traffic jam near the due date.

⁶https://github.com/CSSE6400/project-proposal-2025

```
s4435400/
proposal.md
ai.md
assets/
module-structure.png
plugin-example.js
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4 Voting

Voting on proposals of interest closes at 15:00 on April 4.

- The more projects you vote on, the more likely you are to be allocated to a project that interests you.
- If you do not vote on a reasonable number of projects, you may be allocated to any project.
- You are more likely to be allocated to a project that interests you, if you give high scores to several projects.
- If you give low scores to some projects, you are likely to not be assigned to those project teams.

Your votes are used as one factor in considering the team to which you will be allocated. Other factors will also be considered in forming teams. We do not guarantee that you will be allocated to the project that you gave the highest score.

5 Use of Al

You may appropriately use Artificial Intelligence (AI) and/or Machine Translation (MT) in writing your proposal. You must clearly reference any use of AI or MT in the file ai.md. Include any prompts or dialogues that you use in generating content for your proposal, in the ai.md file. The ai.md file should also summarise any other use of AI or MT. (e.g. Used ChatGPT to fix grammar and structure of final proposal.)

Do not trust AI to write large sections of your proposal. The text tends to be bloated and vague. Students who used large sections of AI generated content in the past tended to get poor grades.

This is like a commercial project pitch. It needs to be sharp, engaging, and to the point. Large sections of circuitous description lose the reader's attention.

Marking Criteria

Functionality Full system functionality	Criteria	Standard							
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Criteria	Standard									
	Exceptional (7)	Advanced (6)	Proficient (5)	Functional (4)	Developing (3)	Little Evidence (2)	No Evidence (1)			
Documenta- tion 10%	Document structure leads the reader to a clear understanding of the proposal.	Document is logically structured.	Document is fairly logically structured.	Document structure does not hinder comprehension.	Document is not logically structured.	Document is poorly structured, requiring ref- erencing other sections to understand it.	Document is very poorly structured, making it difficult to follow.			
	Technical level of text is always appropriate.	Technical level of text is appropriate.	Technical level of text is mostly appropriate.	Technical level of text is mostly appropriate.	Technical level of text is at times appropriate.	Technical level of text is mostly inappropriate.	Technical level of text is inappropriate.			
	Grammar & prose enhance the clarity of the document.		Grammar & prose are mostly professional in nature.	Grammar & prose do not hinder comprehension.	Grammar & prose hinder comprehension a little.	Grammar & prose make comprehension difficult.	Grammar & prose make comprehension very difficult.			