

COSC 340: Software Engineering

Course Project: Proposal

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Project Proposal Outline

- Heading: Title, Team Name, Team Members
- Section 1: Introduction
- Section 2: Customer Value
- Section 3: Proposed Solution & Technology
- Section 4: Team
- Section 5: Project Management



Project Proposal: Heading

- Descriptive Title for the Project
 - Pick a title that will be meaningful on your resume
- Team Name
 - Your choice: pick something fun or something professional or both
- Team Name for Github
 - To be assigned, as teams are formed
 - Team under CS360-19 will be created
 - Members of the team added to it
 - Team repository (of the same name as the team) will be created
- Team Members



Project Proposal: Introduction

Overview

- What is the project?
- What is the motivation for the project?
- Place your project in the context of the market
 - Is your project idea novel? If so, what need does it fill?
 - If not novel, what existing software does it resemble? How is it different?
- What are the backgrounds of the team members?
- Is there anything you'd like to include to orient the reader?



Project Proposal: Customer Value

Customer Need

- Who is the primary customer?
- What does the customer want?
- Why? What is their underlying problem to solve or experience to have?
- Place your software in the context of the market.

Proposed Solution

- From the customer's POV, what will your solution deliver?
- How will the customer benefit from your proposed solution?
- Does it provide a new capability or is it much better, easier, faster …?
- Have you tested the idea on anyone?

Measures of Success

- How will you know if customers got the benefits you want to provide?
- What are your customer-centric measures of success?



Project Proposal: Technology

- System: technology you deliver
 - From the developer's POV, what will your software do?
 - What are the main components of your system? What do they do?
 - What is a high-level block diagram of the architecture of the system?
 - What is a minimal system that would have some value to the customer?
 - What are some possible enhancements that customers would value?
 - How will you test your system?
- Tools: technology you use to build what you deliver
 - What will you use to build the system?
 - Are there available tools you can leverage?



Project Proposal: Team

Skills

- Has anyone on the team built something like this before?
- Are the tools known or new to the team?

Roles

- What are the roles of the team members?
- Will the roles be fixed or rotating?



Project Proposal: Project Management

Schedule

- Is completion of the system feasible?
- When and how often will you meet? Face to face?
- Write a (tentative) week-by-week schedule for project tasks and deadlines

Constraints

- Are there any regulatory, or legal constraints?
- Are there any ethical or social concerns?

Resources

– Will you have access to the data you need?

Descoping

- What will happen if the full functionality can not be implemented
 - Will the reduced functionality operate?
 - Will it be useful (at least partially solving the problem)?