

CS490/CS690 Draft Specification

Due: Feb 21, 2017

Credit: Based on earlier versions by Profs. O. Karpenko and S. Engle

Project Specification

- Describes your plan for the semester
 - Will be shared with the sponsor
- Informal contract between you and your sponsor regarding the deliverables

Project Specification

- 10-15 pages
 - 10 - 12 pt font with 1-inch margins
- Professionally written
 - Proper grammar and punctuation
 - ***Proofread it before submitting!***
- 5% of total grade

Title Page

- Title of project
- Names of team members
- Name of sponsor, and their company

Sections

- Project Overview
- User Analysis
- Task Analysis & Proposed Functionality
- Conceptual Design (objects & operations)
- User Interface Design (wireframe sketches)
 - If there is a user interface
- Implementation Design
 - Components and stack diagram
- Project Timeline

Project Overview

- High-level description of project
- About one page (3-4 paragraphs minimum)

Project Overview

- Motivation: Reason for project
 - The problem that the project will try to solve
- High level summary of functionality
- Compare your project to related work/ related products etc.

User Analysis

- Types of users: more than one
- Profiles of each user-type
 - Or personas*

* To be explained in lecture

Task Analysis & Proposed Functionality

- Task Breakdown (outline)*
 - Use-cases and sub-use-cases
- Core functionality
 - What you definitely will do by end of semester
- Extra functionality
 - What will be completed *only if* time permits

* To be explained in lecture

Conceptual Design

- Objects and Operations Analysis*

Objects	Attributes	Operations
Calendar	owner, current focus	examine, print, create, add event, delete event
Event	name, description, date, time, duration, location, repeat, type (e.g., meeting)	examine, print, edit (attributes)
To-Do Item	name, description, deadline, priority, status	view, print, edit (attributes)
Person	name, job-description, office, phone	send email, view details

* To be explained in lecture

Implementation Design

- Components and architecture
 - What depends on what (stack diagram)
 - Who on team will be responsible for each
- Platform, language(s), libraries, tools, etc.
- Quality attributes:
 - Performance
 - Quality attributes (performance, usability, security, ...)
- Use diagrams to illustrate

Project Timeline

- Table of milestones
 - Break project into clear, achievable milestones
- Timeline/schedule for achieving milestones
 - E.g., Wk 8: front-end working w/dummy back-end
- Important milestones to include:
 - Midterm presentation (Mar 28 & 30)
 - Final presentation (May 16 & 18)
 - Poster presentation: TBD (end of semester)

Questions?

Status Reviews

- Bring a laptop
- Come prepared to:
 - Show what you did so far
 - Summarize latest meeting w/ sponsor
 - Explain how the work is going

Upcoming Dates

- Course schedule is on Canvas
- Status Review #0 next week: Thu Feb 9
 - We will meet with teams 1-8, in that order
 - ~10-12 minutes per team
 - Entire team should attend
- Draft Specification Due: **Feb 21**