



Lecture 10: November 20

Presentation 3, Writing 4, Alpha Demo

Agenda

- **End of Fall Schedule**
- Alpha Milestone
 - Presentation 3 Requirements
 - Alpha Demo Requirements
- Writing 4 Requirements
- Mentor Presentations
 - Technical Design Docs
 - Solutions Architect
- Upcoming Deadlines



Month	Expected Status	Monthly Focus	Deliverables
September	N/A	<ul style="list-style-type: none"> - Figure out teams - Brainstorm projects 	<ul style="list-style-type: none"> - Create teams - resume
Mid-September	<ul style="list-style-type: none"> - Teams selected - Handful of project ideas 	<ul style="list-style-type: none"> - Final project selection - Begin meeting w/ mentors 	<ul style="list-style-type: none"> - Project proposal - Hardware/software request - Writing: Executive Summary
October	<ul style="list-style-type: none"> - Project selected & approved 	<ul style="list-style-type: none"> - Begin technical investigations (services, apis, language, etc) - Flesh out project functionality & requirements - Coding should start (scaffolding, ci/cd, prototyping) 	<ul style="list-style-type: none"> - Writing: Technical summary - Presentation: Elevator pitch
November	<ul style="list-style-type: none"> - Main technologies selected - project is well-defined - Everyone is actively coding 	<ul style="list-style-type: none"> - Answer all questions needed to complete TDD - Lot's of coding for alpha demo 	<ul style="list-style-type: none"> - Writing: PRD - Presentation: Project Design
December	<ul style="list-style-type: none"> - Code complete for alpha demo 	<ul style="list-style-type: none"> - more coding for beta demo - Formalize design discussions into proper TDD 	<ul style="list-style-type: none"> - Presentation: Alpha prototype - Writing: TDD
January	<ul style="list-style-type: none"> - Continued focus on project development 	<ul style="list-style-type: none"> - continued development for beta demo - focus on proper testing & integration 	<ul style="list-style-type: none"> - Website Design
February	<ul style="list-style-type: none"> - Code complete for beta demo 	<ul style="list-style-type: none"> - Refine code from a prototype into a fleshed out project -- testing, integration, polishing - continued development for prelim prototype (get as close to finished as you can here) 	<ul style="list-style-type: none"> - Presentation: Beta prototype - Presentation: Elevator pitch/promotional
March	<ul style="list-style-type: none"> - Code complete for prelim demo 	<ul style="list-style-type: none"> - final code polishing to wrap up project - complete any necessary integration work - add extra features if possible 	<ul style="list-style-type: none"> - Presentation: Pelim prototype
April	<ul style="list-style-type: none"> - Code 99% complete for final demo 	<ul style="list-style-type: none"> - finishing touches for final project submission - ideally you are done with coding by this point 	<ul style="list-style-type: none"> - Presentation: Final demo - Promotional video
May			<ul style="list-style-type: none"> - Final package due

End of Fall Schedule

Date	Lab	Assignments
11/20	Mentor Presentations	Writing 3 (11/24)
11/27	Thanksgiving – NO LAB	Presentation 3 (12/4)
12/4	Presentation 3	Alpha Demo (week of 12/8)
12/11	NO LAB	Writing 4 (12/14)

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Alpha Milestone

Alpha: First intact piece of code possible for demo

Eg.

- Database is storing data
- Algorithm (or subset of the logic) is running on mock data
- Application architecture (Mobile App, Web App, Hardware, etc) is set up and running
- Application frontend and backend transfer information back and forth
- First use case is working

Not expected:

- App is deployed to app store
- All components are integrated together
- All use cases are met

Alpha Milestone - Deliverables

- Presentation 3 (12/4)
 - **Audience:** whole class + mentors + instructors
 - **Goal:** present on what was accomplished & demo alpha functionality
- Project Review (week of 12/8)
 - **Audience:** instructors
 - **Goal:** in-depth demo + technical deep dive

Each team member must be able to show the work that they contributed to the Alpha

Presentation 3 Logistics

- 7-8 minutes long
- Can use presentation 2 slides as a starting point
- Presentations on 12/4
- Everyone should be in-person
- Everyone should stay for the full duration (will likely run past 8pm, reschedule mentor meetings if needed)

Presentation 3 Goals

- Introduce the project to your audience
- Describe technical components and challenges
- Explain the scope of the alpha milestone
- Include some demo to illustrate your work (can be pre-recorded)
 - We'll use the lab computer to present, be sure any pre recorded video can be played from that computer

Presentation Template

INTRO

Problem to be solved

- Key Concepts from Writing 1

Users

- User Personas: 1-2 key users max

Impact

- How is this different from other apps?

TECH

Implementation

- Technical Designs: Diagrams, Algorithms, APIs, etc.
- If using Diagram, use a shortened version with the fewest components max (*No more than 5 is recommended*)

Algorithmic Components

- Explain the algorithmic complexity

DEMO

Alpha Deliverable

- Specify the functionality that's been implemented so far
- Recorded demo or screenshots

Future Work

- What else is remaining? What will you be working on next semester?

Project Review Goals & Logistics

- Week of 12/8 – will use the weekly slot you meet with your instructors
- ~20-30 mins
- Audience: at least 2 of Professor Wood, Professor Qu, and Josh

Goal

- More thorough demo (live if possible)
- Walkthrough of code
- Each team member will explain what they implemented
- Be prepared to answer technical questions
- Plan out demo (how to walk us through the code), but this can be informal



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Writing 4 Requirements

Team Submission, Due 12/14

- Revision of Writing 3 based on:
 - Instructor feedback
 - Project progress
- Should capture all product & technical specifications for your project

For Next Week

Weekly Focus

- Write code, get ready for alpha demo!

Mentor Meetings

- [Team]: Code Review with mentor (if you haven't already)
- [Team]: Writing 3 review with mentor

Deadlines

- [Team]: Writing 3 (**11/24**)
- [Team]: Presentation 3 (**12/4**)
- [Team]: Alpha Demo (**Week of 12/8**)
- [Team]: End of Nov/Dec sprint (**12/13**)
- [Team]: Writing 4 (**12/14**)

Reminders

- Don't forget to post weekly updates (due EOD!)
- No lab next week, happy Thanksgiving!