

Lecture 9: November 19

Presentation 3, Writing 4, Alpha Demo

Agenda

- **End of Fall Schedule**
- Alpha Milestone
 - Presentation 3 Requirements
 - Alpha Demo Requirements
- Writing 4 Requirements
- System Design
- 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: Team Charter
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 - Lots of coding for alpha review 	<ul style="list-style-type: none"> - Writing: PRD/TDD - Presentation: Project Design
December	<ul style="list-style-type: none"> - Code complete for alpha review 	<ul style="list-style-type: none"> - more coding for demo 2 - Formalize design discussions into proper TDD 	<ul style="list-style-type: none"> - Alpha review - Presentation: Alpha prototype - Writing: revised PRD/TDD
January	<ul style="list-style-type: none"> - Continued focus on project development 	<ul style="list-style-type: none"> - continued development for demo 2 - focus on proper testing & integration 	<ul style="list-style-type: none"> - Website Design - demo 2
February	<ul style="list-style-type: none"> - Code complete for demo 2 	<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: skill refinement - demo 3
March	<ul style="list-style-type: none"> - Code complete for demo 3 	<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"> - demo 4
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"> - Final demo - Presentation: Final demo
May			<ul style="list-style-type: none"> - Final package due

End of Fall Schedule

Date (Wed)	Lab	Assignments
11/19	System Design	
11/26	Thanksgiving – NO LAB	Presentation 3 (12/3)
12/3	Presentation 3	Alpha Demo (week of 12/8)
12/10	NO LAB	End of sprint (12/11) 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 (12/3)
 - **Audience:** whole class + mentors + instructors
 - **Goal:** project and technical overview & brief demo of 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 Demo

Presentation 3 Logistics

- 7-8 minutes long
- Can use presentation 2 slides as a starting point
- Presentations on 12/3
- 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/should 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?

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

Alpha Deliverable

- Specify the functionality that's been implemented so far
- Recorded demo or screenshots (brief demo ~ 1 min)

TECH

DEMO

Future Work

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

Project Review Goals & Logistics

- Week of 12/8 - reach out if you need to reschedule!
- ~20-30 mins
- Audience: at least 2 of Professor Qu, Professor Kim, 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 – slides can be helpful but aren't necessary

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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
- In addition to prior content:
 - A table of contents that lists the structure of your document
 - An abstract that gives a brief overview of your project (similar to project summary in writing 1)

For Next Week

Weekly Focus

- Write code, get ready for alpha demo!

Mentor Meetings

- [Team]: Demo & presentation 3 prep, review Writing 3
- [Team]: **Final mentor meeting week of 12/1**

Deadlines

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

Reminders

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