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	- Figure out teams - Brainstorm projects	- Create teams - resume
Mid-September	- Teams selected - Handful of project ideas	- Final project selection - Begin meeting w/ mentors	- Project proposal - Hardware/software request - Writing: Executive Summary
October	- Project selected & approved	- Begin technical investigations (services, apis, language, etc) - Flesh out project functionality & requirements - Coding should start (scaffolding, ci/cd, prototyping)	- Writing: Technical summary - Presentation: Elevator pitch
November	- Main technologies selected - project is well-defined - Everyone is actively coding	- Answer all questions needed to complete TDD - Lot's of coding for alpha demo	- Writing: PRD - Presentation: Project Design
December	- Code complete for alpha demo	- more coding for beta demo - Formalize design discussions into proper TDD	- Presentation: Alpha prototype - Writing: TDD
January	- Continued focus on project development	- continued development for beta demo - focus on proper testing & integration	- Website Design
February	- Code complete for beta demo	- 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)	- Presentation: Beta prototype - Presentation: Elevator pitch/promotional
March	- Code complete for prelim demo	- final code polishing to wrap up project - complete any necessary integration work - add extra features if possible	- Presentation: Pelim prototype
April	**- Code 99% complete for final demo**	- finishing touches for final project submission - ideally you are done with coding by this point	- Presentation: Final demo - Promotional video
May			- 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	End of sprint (12/12) Writing 4 (12/15)

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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**: 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

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 (brief demo ~ 1 min)

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

Project Review Goals & Logistics

- Week of 12/8 – use the [signup sheet](#) posted in #announcements
- ~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 – slides can be helpful but aren't necessary

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Writing 4 Requirements

Team Submission, Due 12/15

- 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 (**12/12**)
- [Team]: Writing 4 (**12/15**)

Reminders

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