

Lecture 8: October 29

Graduation Checklist, Presentation Feedback

Agenda

- Senior Advising / Graduation Checklist
- **Demo 0 / October Sprint Wrap-up**
- Nov/Dec Sprint Planning
- Presentation 1 Feedback
- Presentation 2 Requirements
- Writing 3 Requirements
- For next week
- Team-level Presentation 1 Feedback

End of October Sprint: “Demo 0”

- This is the last week of the October sprint. Please post weekly updates & clean up tickets before **EOD Saturday, 11/1**. We'll grade sprint progress over the weekend.
- **Demo 0:** During instructor meetings the week of **11/3**, students will meet individually with their instructor to review individual code contributions & sprint progress

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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	- 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

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Sprint Goals

September Sprint: What problems do we want to solve?

- Project definition
- Technical & algorithmic requirements

October Sprint: What solutions will solve these problems?

November / December Sprint: What does a PoC look like?

- Focus on coding & implementation
- Alpha Demo: MVP of core component(s)

November/December Schedule

Date	Lab	Assignments
11/5	Presentation 2	—
11/12	Alumni Panel	<u>Writing 3 (Team)</u> (Nov. 16)
11/19	Mentor Presentation: System Design	—
11/26	NO LAB (Thanksgiving Break)	—
12/3	Presentation 3 (final semester presentation)	Alpha Demo (Dec. 8)
12/10	NO LAB (Alpha demo this week)	<u>Writing 4: Final Design Document (team)</u> (Dec. 14)

Aim to be code-complete for Alpha Demo by 12/3

November/December Sprint Progress Rubric

Fall Semester

Full credit

- Tickets addressed as either “done”, “won’t do”, or moved to next sprint.
- Weekly standup updates & slack participation
- Code is PRed & merged to master. Branches & PRs are well-scoped. PRs are linked to tickets.

Partial credit

- Majority of tickets addressed as either “done”, “won’t do”, or moved to next sprint.
- Occasional standup updates & moderate participation
- Code is committed, PRs are sometimes present and sometimes well-scoped. PRs are sometimes linked to tickets.

Minimal credit

- Few tickets addressed as either “done”, “won’t do”, or moved to next sprint.
- Minimal standup updates & rare participation
- Minimal code is committed, PRs are missing or not well-scoped.

No credit

- No sprint board activity
- No standup updates
- No slack participation
- No code committed to master/main

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Presentation 1 Feedback

- Overall: great presentations 🎉
- Speaking Improvements:
 - Speak louder 🔊
 - More eye contact 👀
- Visuals:
 - Less words
 - Cohesive Design

Team feedback will be shared separately

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Presentation 2: Technical Project Design

- **Due Date: 11/5 — lab may run past 8pm**
- **Goal**
 - Share technical design of your project to a technically savvy audience.
Convince the audience of your project's innovation & challenges
 - Audience: tech lead, manager, CTO – already heard the elevator pitch
- **Expectations**
 - **7 minutes long**
 - Grade is primarily based on presentation skills, with additional focus on technical scope & depth

Upload slides to shared google drive prior to presentation day

Presentation 2: Content

1. Brief overview of your project, focus on system goals (**keep to 1 min**)
2. Technical Innovation: what is the novelty?
3. Design feasibility: what technologies/libraries are you using and why will the design work?
4. **System architecture Diagram:** how does everything fit together?
5. Technical components: what are the key components of the system, and who is responsible for what? (**team charter**)
6. Plans for alpha prototype: what do you plan to demo by the end of the semester (**keep to 1 min**)
7. Technical challenges/risks

Presentation 2: Focus

1. Based on presentation 1 feedback, choose a presentation skill to improve focus on for presentation 2 – **we'll ask you to share this at the beginning of your presentation**
2. Emphasize impactful visuals, particularly for the architecture diagram – **don't use a ton of text**
3. Make it clear who is responsible for what
4. Clarify what the goal is for the alpha demo vs the full end of year project

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Writing 3 Requirements

Team Submission, Due 11/16 ([example template](#), [last year's example](#))

Product / Design Specs

- User Stories
- Flow Diagrams
- Mockups/Wireframes

Technical Specs

- Architecture Diagrams
- External APIs, Internal APIs, and Frameworks
- Main Algorithms of System

Check [Lab 7 Slides](#) for details

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For Next Week

Weekly Focus

- End of October sprint, Presentation 2

Mentor Meetings

- [Team]: Review presentation 2 slides w/ mentor
- [Team]: Sprint planning for Nov/December – goal: Alpha Demo
- [Team]: Reschedule 11/6 meeting to accommodate lab going til 8:40

Deadlines

- [Individual]: October Sprint Team Feedback (**Nov. 2**)
- [Team]: Presentation 2 (**Nov. 5**)

Reminders

- Don't forget to clean up sprint boards (due EOD 11/1) and post weekly updates (due EOD!)
- Ask mentors to do code review

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