



# 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	- 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: Team Charter
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 review	- Writing: PRD/TDD - Presentation: Project Design
December	- Code complete for alpha review	- more coding for demo 2 - Formalize design discussions into proper TDD	- Alpha review - Presentation: Alpha prototype - Writing: revised PRD/TDD
January	- Continued focus on project development	- continued development for demo 2 - focus on proper testing & integration	- Website Design - demo 2
February	- Code complete for demo 2	- 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: skill refinement - demo 3
March	- Code complete for demo 3	- final code polishing to wrap up project - complete any necessary integration work - add extra features if possible	- demo 4
April	- <b>Code 99% complete for final demo</b>	- finishing touches for final project submission - ideally you are done with coding by this point	- Final demo - Presentation: Final demo
May			- Final package due

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Mid-September	<ul style="list-style-type: none"> <li>- Teams selected</li> <li>- Handful of project ideas</li> </ul>	<ul style="list-style-type: none"> <li>- Final project selection</li> <li>- Begin meeting w/ mentors</li> </ul>	<ul style="list-style-type: none"> <li>- Project proposal</li> <li>- Hardware/software request</li> <li>- Writing: Team Charter</li> </ul>
October	<ul style="list-style-type: none"> <li>- Project selected &amp; approved</li> </ul>	<ul style="list-style-type: none"> <li>- Begin technical investigations (services, apis, language, etc)</li> <li>- Flesh out project functionality &amp; requirements</li> <li>- Coding should start (scaffolding, ci/cd, prototyping)</li> </ul>	<ul style="list-style-type: none"> <li>- Writing: Technical summary</li> <li>- Presentation: Elevator pitch</li> </ul>
November	<ul style="list-style-type: none"> <li>- Main technologies selected</li> <li>- project is well-defined</li> <li>- Everyone is actively coding</li> </ul>	<ul style="list-style-type: none"> <li>- Answer all questions needed to complete TDD</li> <li>- Lot's of coding for alpha review</li> </ul>	<ul style="list-style-type: none"> <li>- Writing: PRD/TDD</li> <li>- Presentation: Project Design</li> </ul>
December	<ul style="list-style-type: none"> <li>- Code complete for alpha review</li> </ul>	<ul style="list-style-type: none"> <li>- more coding for demo 2</li> <li>- Formalize design discussions into proper TDD</li> </ul>	<ul style="list-style-type: none"> <li>- Alpha review</li> <li>- Presentation: Alpha prototype</li> <li>- Writing: revised PRD/TDD</li> </ul>
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February	<ul style="list-style-type: none"> <li>- Code complete for demo 2</li> </ul>	<ul style="list-style-type: none"> <li>- Refine code from a prototype into a fleshed out project -- testing, integration, polishing</li> <li>- continued development for prelim prototype (get as close to finished as you can here)</li> </ul>	<ul style="list-style-type: none"> <li>- Presentation: skill refinement</li> <li>- demo 3</li> </ul>
March	<ul style="list-style-type: none"> <li>- Code complete for demo 3</li> </ul>	<ul style="list-style-type: none"> <li>- final code polishing to wrap up project</li> <li>- complete any necessary integration work</li> <li>- add extra features if possible</li> </ul>	<ul style="list-style-type: none"> <li>- demo 4</li> </ul>
April	<ul style="list-style-type: none"> <li>- <b>Code 99% complete for final demo</b></li> </ul>	<ul style="list-style-type: none"> <li>- finishing touches for final project submission</li> <li>- ideally you are done with coding by this point</li> </ul>	<ul style="list-style-type: none"> <li>- Final demo</li> <li>- Presentation: Final demo</li> </ul>
May			<ul style="list-style-type: none"> <li>- Final package due</li> </ul>

# 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	<a href="#">Writing 3 (Team)</a> (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)	<a href="#">Writing 4: Final Design Document (team)</a> (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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