

Lecture 7: November 15

Alpha Presentation & Demo, Project Review, Writing 4

Agenda

- Presentation 2 Feedback
- Alpha Milestone
 - Alpha Presentation + Demo
 - Alpha Project Review
- Writing 4: PRDs and Final Technical Design Document

Presentation 2 Feedback

What went well

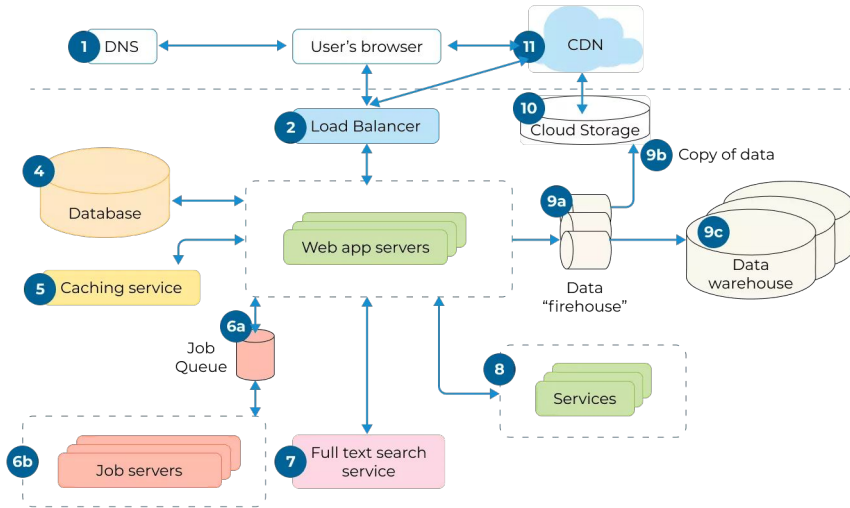
- Eye contact
- Speaking volume
- Filler words
- Gestures
- Content

Areas for improvement

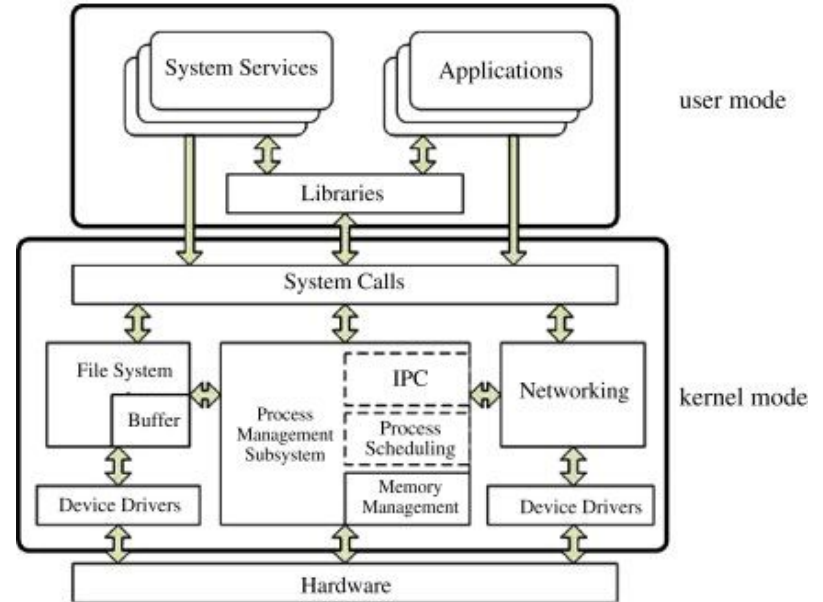
- Eye contact - 5 seconds!
- Volume - loud!
- Posture - feet stable
- Speech is rushed
- Nervous fidgeting
- Slides are text-heavy
- Unclear scope of alpha vs whole project

Architecture/System Design

- Diagrams

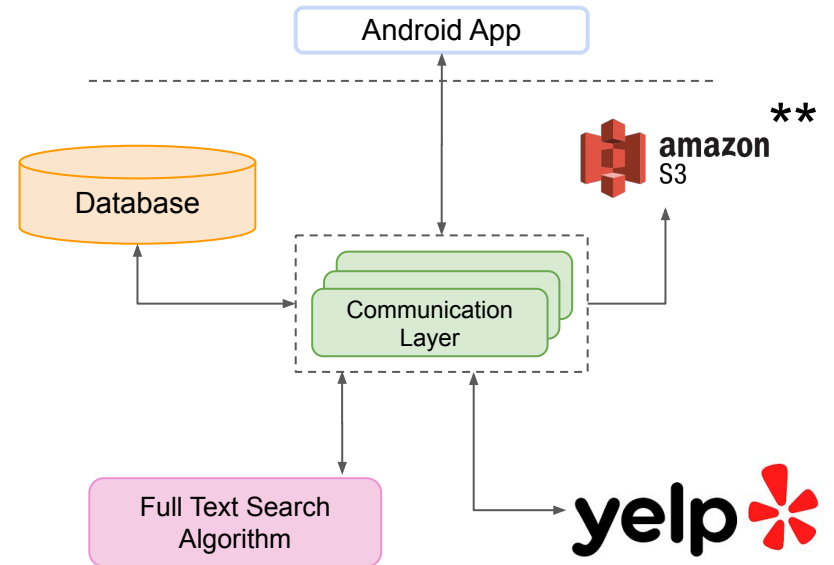
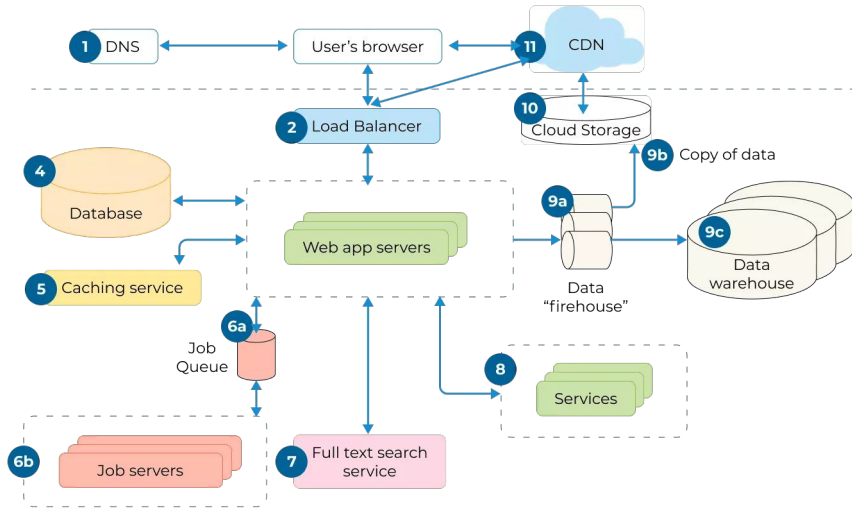


Web App Architecture



Linux Architecture

System Diagram - Documentation vs Presentation



****For presentations, logos of the systems can be eye-catching for tech savvy audiences.**

Presentations - Written Word vs Graphics

Users



Users



Captures the
Moment

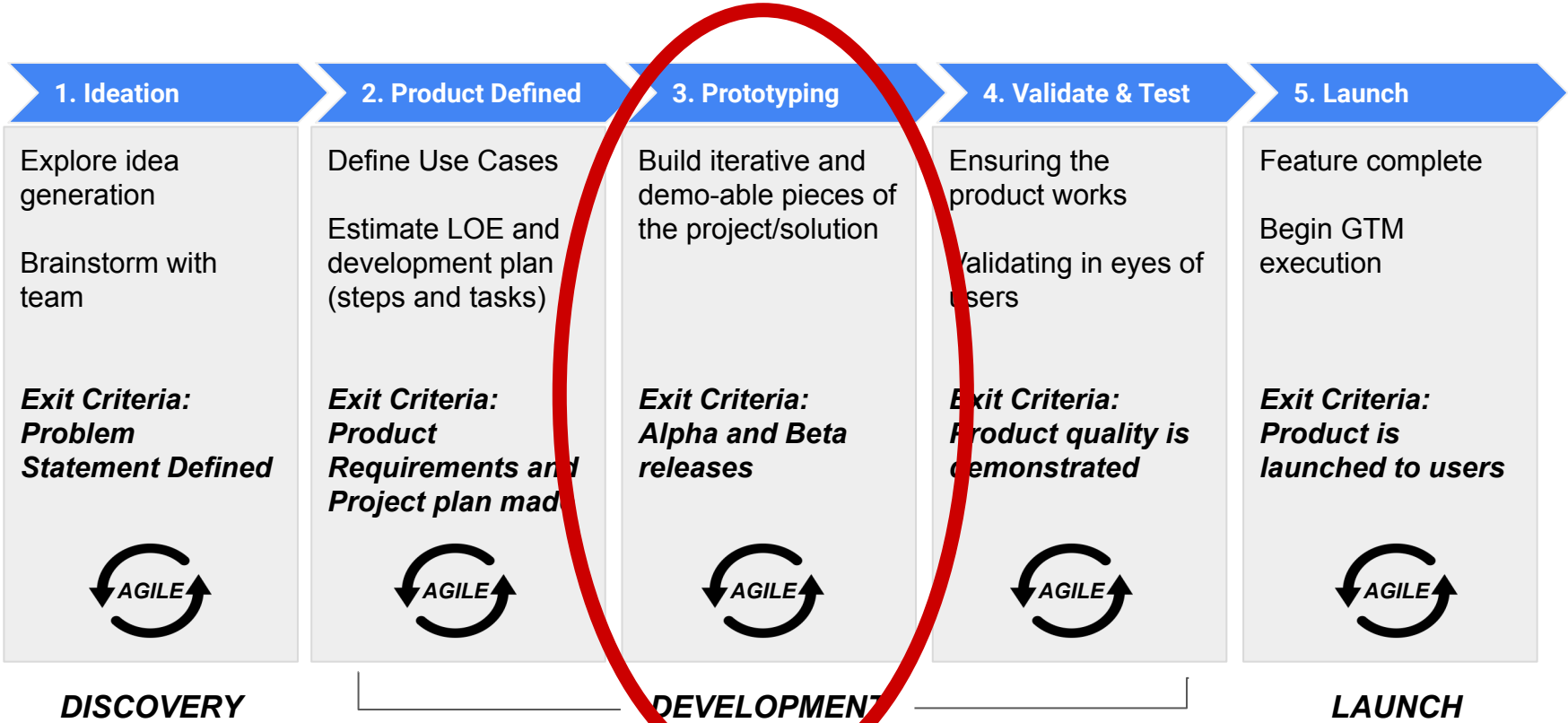
Edits the Shots

Users

Photographer: Takes pictures and uploads to the site

Photo Editor: Uses application to edit all the photos taken by the photographer

Product Definition Phase - Alpha Milestone



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 + Demo (12/6)
 - **Audience:** whole class + mentors + instructors
 - **Goal:** present on what was accomplished & demo alpha functionality

- Project Review (week of 12/4)
 - **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 Logistics

- 7-8 minutes long
- Can use presentation 2 slides as a starting point
- Presentations on 12/6
- Everyone should be in-person
- Everyone should stay for the full duration (will likely run past 8pm)

Presentation Goals

- Introduce the project to your audience
- Describe technical components and challenges
- Explain the scope of the alpha milestone
- Include a form of demo to illustrate your work (can be pre-recorded)

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 12/4 – 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

Writing 4: Technical Design Doc

Product Requirements Document

(Pre-work to Development)

Section 1: Proposal

Section 2: Specs

Section 3: Considerations, Constraints, Dependencies

Section 4: Open Questions

Example PRDs

Industry Standard Product Tools and their PRD Templates

[Confluence PRD Template](#)

Confluence: Web-based corporate wiki for documentation creation, collaboration, and organization

[Coda PRD Template](#)

Coda: All-in-one doc creation and sharing web app. Lower complexity and maturity than Confluence

[Aha PRD Template](#)

Aha: Product development software for roadmaps and planning

[Product School PRD Template](#)

Product School: Silicon Valley based product management training and certification programs

Product Requirements Document

Section 1: Proposal ...

Executive Summary - Writing 1 

Section 2: Specs...

Technical Summary - Writing 2 

Gantt Chart 

Product Specifications - Writing 3 **(Due Nov 19)**

Technical Specifications - Writing 3 **(Due Nov 19)**

“Putting it all together” ... Technical Design Document **(Due Dec 14)**

Technical Design Document

(our version of Product Requirements Doc)

Section 1: Proposal...

Single Executive Summary (Writing 1)

Technical Summary (Writing 2)

Section 2: Specs...

Product Specifications (Writing 3)

Technical Specifications (Writing 3)

Section 3: Alpha Demo...

Link to code

Screenshots/Video of Alpha Demo

Writing 4 Logistics

- Due 12/14
- Team submission
- Combine the first 3 writings together into 1 document
 - Edit so it flows (determine which writing 1 & 2 to use)
 - Address feedback from previous assignments
 - If your project changed from the beginning of the semester, you'll need to update the content of writing 1 & 2
- Add final section around alpha demo

Goal: A comprehensive doc describing your project. We'll refer to this as you progress through the Spring semester.

Reminders

Deliverables & Due Dates

- Writing 3 due 11/19
- Alpha presentation + demo due 12/6
- Alpha project review w/ instructors week of 12/4, here's the [schedule](#)
- Writing 4 due 12/14 (please focus on this last!)

Upcoming Classes

- 11/22: No lab; thanksgiving break
- 11/28: Alumni job panel (bring questions!)