CS189A
Computer Science Capstone

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https://capstone.cs.ucsb.edu/189a.html
Today’s Plan

- Announcements

- Prepare PRDv2 (Due Friday, Dec. 2)
- Prepare presentations and demos for Monday Dec 5
PRDv2: Your Living Requirements Document:  
Shared Google Doc, due Dec. 2

- Authors, Team, Sponsor, Project Title
- Intro: problem, innovation, science, core tech advance (3+ pages)  
  - Define project specifics, team goals/objectives, background, and assumptions
- System architecture overview  
  - High level diagram (1 page)  
  - User interaction and design (1+ pages) – i.e. detailed design, mockups, etc.
- Requirements (functional and non-functional)  
  - User stories or use cases (links) → 20+ for PRDv2 prioritized w/acc. tests  
  - Prototyping code, tests, metrics (10+ at least partially implemented user stories, linked to Trello/Pivotal/githubPJ and github commits/issues)
- System models  
  - Contexts, interactions, structural, behavioral (UML)  
  - Use cases, sequencing, event response, system state, classes/objects  
  - Sequence diagrams: at least 3 different system & 3 different user interactions
- Appendices –  
  Technologies employed
Overall Plan @Week 10

- Four 2-week sprints
  - Oct 10-23 (PRD v1 – tools, technologies, design, terminology)
  - Oct 24-Nov 6 (use cases/user studies, prototyping, PRD v1, PRD v2)
  - Nov 7: MVP presentation
  - Nov 7-20 (design, prototyping, testing, PRD v2)
  - Nov 21-Dec 4 (PRD v2, prototype demo/pres prep, prototyping & testing)

- Fall presentations and demos: Dec 5, 4-7pm (Broida 1640)

- Specify what the product will do
  - Vision statement
  - Product Requirements Document (PRD) (due Oct 29 and Dec. 2)
  - Design tools, brainstorming, coding (tests and implementation)

- Build and test an initial prototype
  - Teams iterate on these activities until they converge to a working prototype!
This Week’s Plan

- Team activities
  - Scrum: Sprint 4
  - PRDv2 preparation
  - Presentation/demo preparation
- Section: TA meetings, continued preparation

Upcoming deadlines:
- Dec 2: Sprint 4 ends
- Dec 2: Course evaluations:
  - Both the instructor (Tobias Höllerer) and TAs (Satyam & Shubham)
- Dec 5: Fall quarter (half-time) presentations and demos
  - Will be recorded: Check with your mentor if concerns
  - All mentors are invited:
    Team leads—please invite your mentors
Dec 5 Presentation & Demo Schedule

Broida 1640 and Zoom (will be announced)

- 4:00 pm Introduction (Tobias Höllerer)
- 4:15 Team GoCSIL (Algorand)
- 4:30 Team Excelsior (Appfolio)
- 4:45 Team Salauth (Appfolio)
- 5:00 Team Oversea (NavSea)
- 5:15 Team TranquiliTea (Artera/Well)
- 5:30 Team BactaHealth (Artera/Well)
- 5:45 Team Flare (PwC)
- 6:00 Team Fat Stacks (Allthenticate)
- 6:15 Team Fortaknight (Forta)
- 6:30 End
More on Presentations/Demos

- 15 minutes for each team:
  - 10 minutes presentation & demo, 5 min questions and transition
  - Recommendation: presentation (7 min) and demo (3 min)

- Teaching team evaluations
  - Score: top quartile, medium-high, medium-low, bottom quartile
  - You have to use the spread (i.e. bin count 3,2,2,2 or 2,3,2,2, …)

- Peer evaluations (excluding your own project)
  - You have to use the spread (i.e. bin count 2,2,2,2)
  - Be objective and factual

- Please do dry runs!

- Backup plan in case of tech failure
Instructions for Presentations (Demos)

- Will be evaluated!

- Presentations worth a significant portion of grade
  - Order of teams will be on the class schedule website
  - 10 mins max (points for getting the timing right!)
  - Setup/laptop must work! Points deducted if it doesn’t, so test in advance
  - Will be recorded

- Outline (~1 slide each) – all members of team should speak
  - Introduce team and give team name and company
  - Introduce the problem
  - Overview and demo how you solve it: use pictures, demo recording OK
  - Provide some technical details, novelty and challenges (2 slides max)
  - Next steps (plan for what is left / CS189B)
Tips and Advice

- Practice, practice
  - Time yourselves to that you get as close to 10 minutes as possible without going over

- Test that your laptop works; have a backup laptop and usb w/presentation

- Live demo OK but record it also so that you have a fallback

- CS189A presentation is not anything like what your final presentation (CS189B) will be like. Different format, duration, level of preparation, purpose
  - Purpose: state clearly your problem/solution and innovation
    - As a hand off to cs189B instructor; not open to the public

- CS189B – identify/implement advanced features, get feedback from users/others, extensively test (make it bulletproof!), public presentation & demo prep
Wrapping up the Fall

- Course grades: all “In Progress” (not “Incomplete”) for this quarter
  - Letter grades at the end of Winter quarter

- Enroll codes for Winter were posted on Slack – hope you registered!

- Planning ahead
  - Holiday break
  - Winter quarter: CS189B with Giovanni Vigna