Course Overview: CS189A

- **Claiming a project**
  - Only **complete** emails dated after **1:45pm** on Monday Oct 7 considered
  - Email to Chandra (ckrintz@gmail.com) with
    - Subject: 189a project selection
    - Sent by group leader (or his/her representative)
    - List of group member names, **identify lead and scribe**
    - A picture of each group member for public posting
      - The file name must be: LASTNAME.png
      - Please use 512x512 resolution and png file format
        - Contact the TA if you need help with any of this
    - List all company participants in order of preference

- FCFS assignments + algorithm
  - You are **not** likely to get your top preferences
  - One team per project/company!
CS189A Goals & Requirements

• Four 2-week sprints:
  – Oct 14-24 (PRD v1 – tools, technologies, design investigations);
  – Oct 24-Nov 7 (use cases/user studies and prototyping, PRD v1);
  – Nov 7-21 (design, prototyping, testing, PRD v2);
  – Nov 21-Dec 5 (prototype presentations, prototyping and testing)

• Specify what the product will do
  – Vision statement Due Oct 14
  – Design tools, brainstorming, coding (tests and implementation)

• Build and test an initial prototype
  – Typically teams iterate on these activities until they converge to a working prototype!

• 189A last week of class + maybe discussion
  – Prototype Demonstration
  – Recorded, order determined randomly
Your Grade

UC Santa Barbara

• Attendance at classes and discussion section
  – One miss for class/discussion is allowed with excuse, followed by letter grade decrease per miss)

• Team participation: sprint scrum, retrospectives, planning, treatment/support of your teammates

• Weekly substantial contributions (50 LOC each) to code repository

• Completion of all of the project requirements (next slides)

• Demo performance
  – Judging criteria, amount of work put in, robustness, extensiveness
Capstone Project Requirements (1/2)

• Use of agile development process with per-sprint task tracking (recommended: Trello or PivotalTracker)

• Daily scrums (M-F) recorded by scribe in shared Google Doc
  – Class/discussion days: last 15mins of class
  – Shared with Instructor, Mentor, TA, and team

• Weekly meetings (virtual is ok) with mentor (scribe logs)

• Every 2 weeks: meeting with TA (during discussion/class is OK)

• Class/discussion attendance and participation in team activities
  – Bring laptop to class, email Chandra if you don’t have one

• Vision statement turned in by deadline (& approved by mentor)

• Draft 1 & 2 of PRD turned in by deadline
  – Evolve as you design and prototype; approved by mentor

• Working prototype for base functionality demonstrated in the last week of the quarter
Capstone Project Requirements (2/2)

- Use of a code repository (recommended: GitHub)
  - **Ongoing** contributions by all members *each week*
    - Identify a workflow that works best for your team
    - Can include preparation of requirements documents
- Use of an issue tracker (recommended: Waffle.io or github)
- Documented code
- Automated unit tests and integration and/or functional tests
  - Code defensively!
- Use of user stories and/or use cases for requirements & design
- Use of UML for system requirements modeling and design
- Wireframes for user interfaces if any
- Complete 4 2-week sprints, **record** retrospectives and planning for each
F19 Deadlines

- Oct 7 at 1:45pm
  - Project choices, decided on during class, (using format specified) to instructor via email
- Oct 10 by end of discussion: complete setup and start on project planning
  - Github repo, project description sentence, google doc & group setup and sent to TA via email (invites sent to TA, instructor, team, mentors), sprint I planning and vision statements
- Oct 14 by end of class
  - Vision statement (email PDF to TA)
  - Sprint 1 (Oct 15-20)
- Oct 24 in discussion section
  - Demo and retrospective (retro) for Sprint 1, plan Sprint 2 (starts Oct 29)
- Oct. 31 by end of discussion
  - Project requirements doc (PRD) v1 (using format specified) as PDF to TA
- Nov 7 by end of class
  - Demo and retro for Sprint 2, plan Sprint 3 (starts Nov 7)
- Nov 21 by end of discussion
  - Demo and retro for Sprint 3, plan Sprint 4 (starts Nov 21)
- Nov 25 by end of class
  - Project requirements doc (PRD) v2 as PDF to TA
- Dec 2 and 4th (if needed): Project Demos to class/discussion for 189B instructor/video record
- Dec 4 (discussion): Demo and retro for Sprint 4; plan development over break