CS490 Senior Team Projects

Prof. Jeff Johnson

Credit: Prof. Olga Karpenko for earlier version of slides

Contacting Prof. Jeff Johnson

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• Office Hours: HR 510i (near elevator)

Mon, Wed: 1:45-3:15 pmTue, Thu: 10:30-11:00 am

Purpose

- CS Students work in teams to develop large software projects under guidance of project sponsor
- New: Students from USF Business School assigned to some teams
- Enrolled in BUS 398-02: Software Development Teams
- Instructor: Lou Lucaccini
- Will help with business analysis, testing & evaluation, writing reports (not coding)

Learning Outcomes

- Specify, design, implement, test, and document significant software project.
- Solve problems that arise during development of a software project, on a deadline.
- Provide detailed technical documentation for users, and for developers wishing to enhance the software.
- Communicate effectively, productively, and professionally with project sponsor, instructor, team members, and potential users.
- Design digital products and services using a design process that focuses on the needs of potential users.
- Clearly verbally communicate technical concepts in numerous settings: small groups, class presentations, and presentations to the wider USF community.

How Project Teams are Formed

- · Students indicate CS background, skills
- Fill out 1st questionnaire on Canvas
- Today, Thursday, maybe Monday: Project proposals pitched to class
- Students indicate preferred projects, teammates
- Fill out 2nd questionnaire on Canvas
- Instructor forms teams, assigns to projects
- Teams start work

Expectations

- Document project plan: Draft Specification
- Design and implement the project
- Meet project sponsor weekly
- Meet instructor for Status Reviews (9)
- Write Final Report
- Present your work in:
- Status Meetings
- Midterm and Final presentations
- A poster presentation session (TBA)
- Attend lectures
- Expect to spend ~15 hours a week

Grading (for CS Students)

- 2% Class Attendance
- 5% Draft Specification
- 10% Midterm Presentation
- 10% Status Reviews
- 20% Final Status Review
- 20% Final Presentation, including demo of project
- 20% Final Report
- 10% Project poster
- 3% Poster Presentation (date TBD)

Status Reviews

- Team meeting with the instructor
- ~20 minutes/team
- We discuss your progress on project
- Please bring a laptop with project
- Your goal: Convince me you are on track
- Most problems: Discuss with sponsor
- Sponsor or team issues: Discuss with me

Deliverables

- Code: to sponsor
- Final Report
 - including project documentation
- Final Presentation
- Poster
- Poster Presentation

Lectures

- Lou: Team dynamics
- Jeff: Understanding users and tasks
- Jeff: Conceptual design
- Jeff: Preparing a draft specification
- Jeff: Preparing a presentation
- Jeff: Preparing a poster

After Teams Formed and Projects Assigned

- Meet with sponsor ASAP
- Start writing Project Specification

To Do

- See remaining project pitches
- CS490: Fill out "Project & Team" form
 - Indicate top 3 projects to work on
- Indicate possible teammates
- BUS398: Tell Prof Lucaccini your prefs
- CS490 is 4 units; BUS 398 is 2 units
 - Workload on teams should match that



Possible Projects: Tuesday

- Patty Rally, Positive Coaching Alliance: RallyScores mobile app
- Jon Rahoi, Ten-X & NooGames:
 - Ten-X Messenger Bot
- Ten-X Interview Tool
- Lunisolar
- Backgammon (or other simple game)
- Profs Alark Joshi and Sophie Engel, USF CS: Benefits of ISOTYPE visualizations for comparison tasks
- Austin Bushree: Sustainability Networking App

Possible Projects: Thursday

- Jose Alvarado, SF Dev Shop: five project ideas
- Prof Jeff Johnson, USF CS:
 - Tablet for people with Macular Degeneration
- Matt Butner, Stride Health
 - Extracting medical information and prices from labels and receipts
- Andy Edmonds, Adobe:
 - Worker cognition research study
 - Updating Scrutinizer in Adobe Air or a browser plugin
 - Search UX Prototype for Adobe Stock

And Now... Today's Projects