

Web Application Project

ITP 460 (4 Units)

Course 32043, Fall 2014



Objective

This course is intended to give experienced web developers practical industry theory, skills, and experience. Students will build websites for actual clients. They will work in teams with assigned roles, developing the site throughout one semester and following the traditional development stages and cycles.

Concepts

Students will be taught important development theory including: methodologies and frameworks; project planning and resource management; project roles and collaboration; information architecture; applied database design and implementation; user interface design and testing; version control; quality assurance; testing and debugging; documentation; and migration and updating projects.

Prerequisites

Upper division ITP Web courses or equivalent experience.

Instructor

Yuanbo Wang

Contact

yuanbo@usc.edu
OHE530A

Office Hours

Thursdays 12pm – 2pm
Please make an appointment ahead of time.

TA

Dongyang Chen (dongyanc@usc.edu)

Grader

Cristian Hernandez (cbhernan@usc.edu)

Lecture and Lab

Thursdays 5 – 8:50 pm

Website

<http://webdev.usc.edu/itp460>

Required Textbooks

Pro Web Project Management: Justin Emond & Chris Steins, 2011

Grading

The following percentage breakdown will be used in determining the grade for the course.

Individual Assignments	10%
Group Assignments	25%
Labs and Attendance	20%
Milestones	20%
Individual Contributions	25%
Total	100%

Grading Scale

The following shows the grading scale to be used to determine the letter grade.

A	100-93
A-	92-90
B+	89-87
B	86-83
B-	82-80
C+	79-77
C	76-73
C-	72-70
D+	69-67
D	66-63
F	62 or below

Policies

Due dates and requirements for all Labs and Assignments will be posted on the course site. Students will “post” their work to their USC web space as defined on the course site.

The course will have both individual and group assignments. Labs and assignments will often be due at different times of the week. It is each student’s responsibility to keep track of due dates and post work on time as specified on the course site, even if they miss class. Work turned in late will lose 10% credit per day and late work is not accepted after two weeks past the due date. To receive credit for late work you MUST email the grader that you posted a lab or assignment after the due date or you will not receive credit.

Attendance is very important in this course. An attendance sheet will be circulated each lecture. You must sign in for lecture to receive lecture attendance credit. Just as in an actual development firm, missing sessions and meetings will have negative consequences.

IT Help

Hours of Service: 8AM-9PM; Phone: 213-740-0517; Email: engrhelp@usc.edu

Incomplete and Missing Grades

Excerpts for this section have been taken from the University Grading Handbook, located at <http://www.usc.edu/dept/ARR/grades/gradinghandbook/index.html>. Please see the link for more details on this and any other grading concerns.

A grade of Missing Grade (MG) “should only be assigned in unique or unusual situations... for those cases in which a student does not complete work for the course before the semester ends. All missing grades must be resolved by the instructor through the Correction of Grade Process. One calendar year is allowed to resolve a MG. If an MG is not resolved [within] one year the grade is changed to [Unofficial Withdrawal] UW and will be calculated into the grade point average a zero grade points.

A grade of Incomplete (IN) “is assigned when work is not completed because of documented illness or other ‘emergency’ **occurring after the twelfth week** of the semester (or 12th week equivalency for any course scheduled for less than 15 weeks).”

Academic Integrity

USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one’s own academic work from misuse by others as well as to avoid using another’s work as one’s own. All students are expected to understand and abide by these principles. *Scampus*, the Student Guidebook, contains the Student Conduct Code in Section 11.00, while the recommended sanctions are located in Appendix A: <http://www.usc.edu/dept/publications/SCAMPUS/gov/>. Students will be referred to the Office of Student Judicial Affairs and Community Standards (SJACS) for further review, should there be any suspicion of academic dishonesty. The Review process can be found at: <http://www.usc.edu/student-affairs/SJACS/>.

If the instructor, a grader, or a lab assistant suspects you of academic dishonesty, it has to be reported to SJACS. Do not share lab assignments with another student. Do not submit another student’s work as your own. Do not look at other students’ papers during exams. Do not leave the room during an exam. Do not cheat! As Trojans, we are faithful, scholarly, skillful, courageous, and ambitious.

Students with Disabilities

Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to your course instructor (or TA) as early in the semester as possible. If you need accommodations for an exam, the form needs to be given to the instructor at least two weeks before the exam.

DSP is located in STU 301 and is open from 8:30am to 5:00pm, Monday through Friday. Contact info: 213-740-0776 (Phone), 213-740-6948 (TDD only), 213-740-8216 (FAX), ability@usc.edu, http://sait.usc.edu/academicsupport/centerprograms/dsp/home_index.html.

Emergency Preparedness/Course Continuity in a Crisis

In case of emergency, when travel to campus is difficult, if not impossible, USC executive leadership will announce a digital way for instructors to teach students in their residence halls or homes using a combination of the Blackboard LMS (Learning Management System), teleconferencing, and other technologies. Instructors should be prepared to assign students a “Plan B” assignment that can be completed ‘at a distance.’ For additional information about maintaining your classes in an emergency, please access: <http://cst.usc.edu/services/emergencyprep.html>

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Course Outline

Week 1	Aug 28	Course introduction Project life cycle, roles, student backgrounds, client proposals Reading: Ch 1 Student background questionnaire – I (Due 8/30)
Week 2	Sep 4	Project definition, scope, planning, core documentation Project management fundamentals, Client interaction, meetings Client research - I (Due 9/8) Client questionnaire - G (Due 9/11) Preliminary creative brief - G (Due 9/11) Reading: Ch 2, 3, 5
Week 3	Sep 11	Client meetings Final Creative brief - G (Due 9/15) Site map & primary paths - G (Due 9/15 at noon) Preliminary planning document - G (Due 9/18) Technical requirements (first draft) - G (Due 9/18) Reading: Ch 4, 6
Week 4	Sep 18	Designing, creative concepts, comps, wireframing Information Architecture – (Invisionapp) Initial navigation(s) & wireframes - G (Due 9/25) Creative concept - I (Due 9/21 at noon) Final creative concepts - G (Due 9/25)
Week 5	Sep 25	Data structures Client design meeting Workflow storyboards - G (Due 9/31) Final navigation(s) & detailed sitemap - G (Due 10/2) Data Structures/Database design - I (Due 10/2) Design Styleguide Comp – G (Due 10/2) Initial site content - G (Due 10/9) Reading: Ch 7
Week 6	Oct 02	HTML & CSS style guides, CSS architecture Version control theory and workflows, Git & Github Final technical requirements document - G (Due 10/6) Updated planning document - G (Due 10/9) HTML and code style guidelines – G (Due 10/9) Design Document, CSS styleguide - G (Due 10/9)

		Project repository setup + README – G (Due 10/9?) Project repository commit – I (Due 10/9?) Milestone 1: Database/Data Structures - G (Due 10/13) Milestone 2: Site Prototype - G (Due 10/23) Reading: Coding style guidelines (article)
Week 7	Oct 09	Usability Maintainable JavaScript Automated documentation JavaScript style guide and documentation – G (Due 10/16)
Week 8	Oct 16	TBA Reading: Ch 8
Week 9	Oct 23	Web performance optimization / best practices Reading: web article/video Milestone 3: Technical Build (Due 11/13)
Week 10	Oct 30	Automated project builds and deployment Reading: Ch 10
Week 11	Nov 6	Web server & application security Project security analysis – I (Due 11/13)
Week 12	Nov 13	Quality Assurance Testing overview and terminology Project acceptance tests – G (Due 11/24) Q/A phase 1 - I (Due 11/20 at noon) Q/A phase 1 report & fixes - G (Due 11/24) Unit Q/A documentation - G (Due 11/24) Q/A phase 2 - I (Due 12/1 at noon) Q/A phase 2 report & fixes - G (Due 12/3) Reading: Ch 9 Final Site: Build due on server 12/03 by 5pm
Week 13	Nov 20	TBA
Week 14	Nov 27	University Holiday Project Marketing Plans – G (Due 12/11)
Week 15	Dec 04	Site presentations to clients Peer evaluation - I (Due 12/11 at noon) Site manual including migration plan & files - G (Due 12/11 at noon)