

CECS 493

Administrivia, projects and teams

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Administrivia

- Watched video?
- Course outline
- Reviewed 343 material?
- Quiz
- Topic proposals
- Teams
- Tools

Watched Video?

- First time doing this, maybe more in future.
- What was good?
- What did you miss?

Course outline

Week	Tue	Thu	Deliverable (Sun)
08/31-09/06	Orga, topics, teams	Tech set-up	Report incl. questions
09/07-09/13	Stakeholder interviews	Stakeholder interviews	Report
09/14-09/20	Requirements analysis	Technology selection	Requirements Spec
09/21-09/27	Design techniques	Meetings	Report
09/28-10/04	<i>Birgit gone (work!)</i>	Meetings	Design Spec
10/05-10/11	Test derivation	Meetings	Report
10/12-10/18	Testing	<i>Birgit gone (work!)</i>	Test Spec
10/19-10/25	Coding	Meetings	Report
10/26-11/01	QA	Meetings	Implementation
11/02-11/08	Documentation	Meetings	Report
11/09-11/15	Meetings	Meetings	Documentation
11/16-11/29	Meetings	Meetings	Complete Delivery
11/30-12/04	Meetings	Meetings	Presentation slides
12/08	Presentation for industry stakeholders		

Reviewed 343 material?

- Who took 343 last semester?
- Who took it earlier?
- Who never took 343?
- How do you feel about the content?
- How did you like the IDEO kit?

Quiz (1 of 2)

- Which one is the right order of activities?
 1. Design – Requirements Engineering – Implementation – Test – Delivery
 2. Requirements Engineering – Design – Implementation – Test – Delivery
 3. Requirements Engineering – Test – Delivery – Design – Implementation
- Which one is not a Requirements Engineering activity?
 1. User Interface Requirements
 2. Acceptance Criteria Specification
 3. Algorithm Design
 4. Stakeholder Interviews
- Which techniques work best to specify the internal behavior of the system?
 1. Use cases and user stories
 2. Mock-ups and wireframes
 3. Activity diagrams and message sequence charts
- Which one is not a software development process model?
 1. Agile
 2. Automated
 3. Iterative

Quiz (2 of 2)

- What is a stakeholder?
- What is the Agile Manifesto?
- What is an application domain?
- What are sources of domain knowledge?
- What types of diagrams can we use to model a system's behavior?
- How do you identify components or classes?
- What is a design pattern?
- What are quality attributes?
- How do you test software?
- How do you assess quality in a software system?

Topic proposals

	Topic	Votes	Team assigned?
1	Resilient Smart Gardens	8	y
2	SE4S Toolkit	6	n
3	Bartering System	19	y
4	Green Education Website and CRM	1	n
5	LB Nonprofit Partnership Website and CRM	6	n
6	Shared Science Website with CRM	12	y
7	LB Comm. Telev. & Media Corp. Online Presence	2	n
8	Professional Abilities Association of America Online presence	7	y
9	Infidelity Counseling Network (ICN) Website	9	y
10	Filipino Migrant Center Web presence	9	y
11	Harbor City/Harbor Gateway chamber of Commerce Database	6	n

Topic 1: Resilient Smart Gardens

- **SE4S Lab**
- **<http://web.csulb.edu/~bpenzens/se4s/smart.html>**
- Stakeholder Birgit Penzenstadler: This project uses an Edison Board and sensors to connect to a growing bed and to measure with how little water we can get away for growing vegetables in Southern California. If you have always wanted to develop something with embedded systems, this is for you.

Topic 2: The SE4S toolkit

- **SE4S Lab**
- **<http://web.csulb.edu/~bpenzens/se4s/>**
- Stakeholder Birgit Penzenstadler: This toolkit is an online guide for developing sustainable software systems. There are a number of academic papers and conceptual reference models (like a Stakeholder Reference Model and a Goal Reference Model) that I want to provide in an online tool. The tool shall include a written guide and online diagramming of the models.

Topic 3: Bartering System

- **SE4S Lab**
- **<http://web.csulb.edu/~bpenzens/se4s/>**
- Stakeholder Birgit Penzenstadler: Imagine a better version of Craigslist that allows to trade goods and services in a local community. For example, you have a lot of vegetables in your garden and trade a box of that against a haircut from your stylist around the corner (who doesn't have a garden).

Topic 4: Green Education Website and CRM

- **Green Education Inc.**
- **<http://greeneducationinc.org/>**
- Problem statement by stakeholder Stella Ursua: “Our goal is to educate future homebuyers about energy efficiency mortgages and loan programs that are available to individuals during the purchasing process. These mortgages/loan programs have been proven to save the homebuyer energy and decrease energy bills, create healthier indoor air quality and high performing homes, and create local, good green jobs in the process. The programs have not been effectively promoted in the past and both real estate agents and homebuyers still do not see the value in investing in these programs.
- Our Real Estate Advisor has been extensively involved in coordinating training events for over 600 realtors in Southern CA over the past 3 years, and only a handful of homebuyers have bought into the mortgage/loan programs during this time. We believe that there should be a way to connect to future homebuyers before they enter into the escrow process. Currently, that information is not available. We are planning to conduct regular workshops and forums about these programs throughout the city, but our efforts are simply like being blindfolded while trying to hit a baseball...no focus and no available data about which audiences to target. We need your help.”

Topic 5: LB Nonprofit Partnership

Website and CRM

- **Long Beach Nonprofit Partnership**
- **<http://lbnp.org>**
- Problem statement by stakeholder Linda Alexander: “We are in the midst of developing our website and need talent to make it a reality. While we have had a website for a number of years, it has just been a few template pages on a web developer's website. For obvious reasons (from marketing, to design, to flexibility, to our SEO). We have a great web developer, but need the front end design team support (incl: identifying the right Wordpress style, working with the graphic designer, communication with our CMS, content design and upload, and more). In addition, we could use help to revamp our CMS. We purchased it off of the shelf and did not get either the appropriate design support or the training to manage it. It has become a real mess. The project might be a revamp of the CMS, a clean-up or a full redesign.”

Topic 6: Shared Science Website with CRM

- **Shared Science**
- **www.sharedsciencefun.org**
- Problem statement by stakeholder Jacquie Viale: “Our organization has grown quickly and we have been trying to find the right product to offer online registration, email communications, data analysis, outreach, and resources for our staff. We have a subscription to active networks, but it does not serve all our needs. We'd like to explore Google for Nonprofits and Education but the time to do so is beyond us right now. We need to be able to serve our employees with easy reporting of hours, equipment inventory and requests as well.”

Topic 7: Long Beach Community Television & Media Corporation Online Presence

- Problem statement by stakeholder Kennth Roth: “Our problems are myriad. The organization is transitioning from being a leader in driving the return of public access television to Long Beach to being a grassroots volunteer-run public interest radio station. Within that capacity, LBCTMC seeks:
 - 1). to differentiate and promote itself separately from its previously role in the formation of PadNet and to create the perception of itself as the premier voice for public interest news, music, and promotion of Long Beach's unique and longtime role in the development of cutting edge music and diversity of voices.
 - 2). to develop an online "in-take" capability for both volunteers/operators and content producers, with the sufficient data capture to determine volunteer skill-sets, content areas of intersts, and make available public opportunities to financially support the station.
 - 3). to integrate an email blast capability that draws from databases of volunteers, content developers, public supporters and interested others requesting program information for a biweekly update on activities, programs and other developments associated with the station.We are fortunate to have on our board a CSUDH digital media arts professor and award-winning media professional who can work with students to scope the project, help to identify efficiencies, and avoid scope creep.”

Topic 8: Professional Abilities Association of America Online presence

- **Professional Abilities Association of America (www.paaofa.org): Online presence**

Problem statement by stakeholder Mary Zendejas: “We are in need of the following;

1. A good and attractive and inviting website.

We have a website but it is was created with very limited knowledge of web designing. We need help in making a spectacular website that will reach the thousands of professionals living with physical disabilities.

2. We need help spreading the word about our website and provided much needed information.

3. We are having problems with our keeping our members up to date.

We would also like to create an app that would identify all business events in a local area for people with disabilities and without.

4. We need help with our members being able to apply on line for our free services.

5. Uploading our monthly newsletter

6. Creating a database for easy emailing. “

Topic 9: Infidelity Counseling Network (ICN) Website

- **Infidelity Counseling Network (ICN)**
- **<http://www.infidelitycounselingnetwork.org/>**
- Problem statement by Stakeholder Ebony Utley: “Our organization needs an easily editable, mobile accessible, more interactive website that readily encourages donations. We must keep our current header, images, and theme.”

Topic 10: Filipino Migrant Center Web presence

- **Filipino Migrant Center**
- **www.filipinomigrantcenter.org**
- Problem statement by stakeholder Nikole Cababa: “We're aiming to improve our website in the following ways:
 - We want to have an engaging website that provide news on community issues/events that meet their interest
 - Since we have new programs and events almost every two weeks, we would like to have an easy and efficient way to update our community members on these events.
 - We would like our website to be user-friendly to a diverse group looking for resources and signing them up for our quarterly newsletters and volunteer opportunities.
 - We want to provide a page that inspires people to donate to our work (i.e. highlighting our campaigns and success stories), plus including a donation link to our PayPal.”

Topic 11: Harbor City/Harbor Gateway chamber of Commerce Database

- **Harbor City/Harbor Gateway chamber of Commerce**
- **hchgchamber.com**
- Problem statement by Joeann Valley: “Keeping our data base update, we haven't found a good data base software that can keep up data..Most software is so costly and we cant afford to have one developed for us. Limited volunteers to help keep it update. Communication is always a problem, we send out consent contact once a week, but we need to come up with a complete plan how to communicate with our members. Keeping our data baser up to date on the web site is a challenge for us. We also need to communicate to our businesses about a zip code issue we have. many of our businesses have a zip code of a neighboring community, making it very hard for those businesses to understand what Community they are located in. With out staff its very hard to handle all the day to day jobs, making the data a low priority. “

Topics assigned

Team leaders in red

	Topic	Team assigned
1	Resilient Smart Gardens	Ryan W, Collin C, Kaitryn F, Nancy T, Nathan D,
2	SE4S Toolkit	
3	Bartering System	John C, Cosima M, Nina L, Jessica O, Mana S
4	Green Education Website and CRM	
5	LB Nonprofit Partnership Website and CRM	
6	Shared Science Website with CRM	Jonathan T, David J, Tri V, Ray L, Elena C,
7	LB Comm. Telev. & Media Corp. Online Presence	
8	Professional Abilities Association of America Online presence	Michael V, Errold T, Anne K, Yutaro M, Michael P, Lusemaka
9	Infidelity Counseling Network (ICN) Website	Brian C, Truc N, Jeimmi G, Eduardo,, Kim
10	Filipino Migrant Center Web presence	Christian W, Oliver K, Michelle T, Himadri S, Darren
11	Harbor City/Harbor Gateway chamber of Commerce Database	

Tools & Teams

- Submissions via BeachBoard Dropbox
 - If there is a field “Name”, please fill it in 😊
- Teamwork (internal and back-up)
 - Team leader
 - Google Drive for document sharing
 - Github as a code repository
Add me @kamikitty
 - Bug tracking tool (e.g. BugZilla)

This is how we roll...

- Reports and deliverables due Sunday 11:59pm
- PDFs for all documents except code
- Industry stakeholders will come for interviews next week
- Tuesdays
 - Stand-up meeting: one team member gives a 2-3 minute update on how the last week went, different team member every time
 - Short lecture: topic of the week, see course outline
 - Work in groups, meet with me as necessary
- Thursdays
 - Work in groups, meet with me as necessary

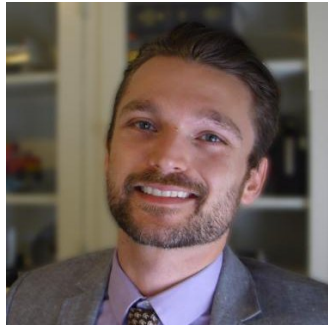
Thursday, Sept 3

Start with:

- Chris Beyer
 - Innovation Challenge Pitch
- Career Development Center
 - Jina Flores, Michelle Gomez and their team
 - talk to you about resume preparation and networking strategies.

Then:

- Outline of requirements engineering activities
- Structure of documentation



Lincoln Bauer
WE Labs



Lisa Mae Brunson,
Wonder Women Tech



Alexa Fleur, Critique^it

Industry Panel

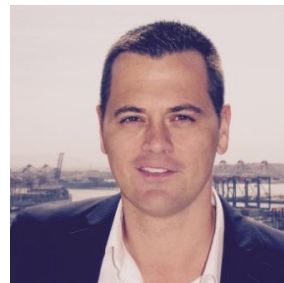
Sept 8, 2015

7pm-8:15pm

LA5-147



Andy Moeck,
moec, etc...



Scott Wayman,
Kangaroo Time



Martin Canchola,
Apartment SEO



Jap Dysart,
Jloop