

Senior Project 2017

September 4, 2017

Topics for Today

- Topic allocation
- Project types
- Next step?

Note: This slide is posted on Moodle and also Facebook group “ITS/CSS 400 Senior Project”.

Registration statistics

- 37 groups
- 47 topics

⇒ we disable 10 “least popular” topics (i.e. not selected by any groups as their first choices). These disabled topics are removed from each group’s preference list.

Registration statistics

- BU1: [8, 9, 4] \Rightarrow averaged rank = 7
 \Rightarrow three groups select BU1: the first selects it as 8th choice; the second selects as 9th choice; and the third selects as 4th choice.
- BU2: [8, 10, 5, 1, 1] \Rightarrow averaged rank = 5
- BU3: [8, 12, 8, 5] \Rightarrow averaged rank = 8
- BU4: [11, 12, 6] \Rightarrow averaged rank = 9

\Rightarrow BU4 should be disabled.

10 disabled topics

- BU4: [11, 12, 6]
- GS2: [2]
- KW2: [12, 12, 5]
- NH1: [5]
- PA2: [4, 10, 4, 11, 4, 5, 8, 7, 13]
- SM3: []
- SU4: [13, 13, 3, 12, 6, 14]
- TH3: [6, 2, 2, 5, 3, 3, 1, 1, 13, 9, 6, 9, 5, 6]
- TT4: [8, 4, 10]
- VS3: [10, 11]

Final Topic Allocation

See our post on Facebook group “ITS/CSS 400 Senior Project”.

Types

Senior project normally involves students developing a system

- Web site or application
- Mobile application
- Standalone or networked application Hardware + software system
- Network + applications
- Experimental analysis
- Research study
- etc

Two Approaches

- Develop a “novel” system
 - Advantage: Valuable output
 - Disadvantage: Hard to convince others it is new
- Improve on an existing system
 - Advantage: Valuable learning process
 - Disadvantage: Not very “exciting”

General Recommendations

- Your group: 2 people, 2 semesters. Existing systems: multiple man-years of effort
 - Don't try to implement every feature
 - Focus on novel/new features
 - Your project produces a prototype
- Wide search for existing systems
 - Identify their good features and missing features
 - How does your system differ from existing systems?

Features that are NOT novel

- Existing systems work on [Windows, iOS, ...]; our system works on [Linux, Android, ...]
- Existing systems are implemented in language X; our system is implemented in language Y
- Existing systems cost money; Our system is free
- Existing systems are in English; our system is in Thai

Provide Evidence of Novelty

- Our system performs better: Results from experiments that compare performance
- Our system is easier to use: Experiments/surveys of users
- Our system has a feature others don't have: Detailed list/review of other systems
- Our system is portable across different hardware/OS: Test it on different hardware/OS

Convince others that your system

- Works as expected with many test cases
- Contains novel features
- Is complex
- Was well designed, implemented and tested

- If you produce a paper, every one may immediately believe in your claims
- Conference calls: <http://www.wikicfp.com>

- Finalize your topic with your assigned advisor.
- Deliverable 1: Project Concept - 10%
 - A summary of what the project is about. Template is available at Moodle
 - Submit via SMP system (and also Google Drive)
 - You can submit many times before **deadline**: 18 Sept 1h00 pm
- Presentation 1: Project Concept - 5%
 - Introduce the project. This will be an individual presentation - each group member gives a separate presentation.
 - We will announce the time. It will be in Sept 18-22 week (i.e. one week before mid term)
- Deliverable 2: Requirements Specification - 20%
 - A list of things that are required of the system for it to be completed successfully.
 - Submit via SMP system (and also Google Drive)
 - You can submit many times before **deadline**: 13 Oct 1h00 pm (i.e. one week after mid term)

Seminar

Extracurricular activity for senior project attendance check

SVI Recruiting for internship, job, part time jobs

Date: September 18, 2017

Time: 13:00 17:00 hrs.

Venue: Room 1-503, SIIT Main Building, Rangsit Campus

*Free snack boxes are provided after seminar, to attend this seminar on the mentioned date.