Proposal Assignment Due Wed midnight

COM S 309

Goal

- You are to meet as a team and discuss project ideas.

- Most of the issues in Software Engineering manifest themselves only on larger/complex projects. That is the reason why we require the projects be somewhat large/complex (for example, by introducing client/server, multi-threading etc). Otherwise, the design and development work can become very trivial for a 4-person team. Web and mobile projects are encouraged.

PROJECT PROPOSAL

Key Criteria

- Every team member must really want to do the project (i.e. each must rate the project 8 or more out of 10).

- Note: We can always make the project more complex or more easier if needed.

- Typically if games - No game engines allowed. You would have to develop mostly from scratch.

- Typically javascript/nodejs strongly discouraged (talk to instructor if your entire team still wants to)

STEPS

- You are to meet as a team and discuss project ideas.

- After your team comes to a consensus, create a page on your group's wiki using the GIVEN FORMAT (see slide no 6).

- If you want, you can submit **more than one proposal** (give in preference order i.e. first preference should be given first etc).

Proposal Format

1. ~~Team picture (picture of team members) – MANDATORY.~~

2. **Team Competency:** for each team member list what is prior programming knowledge/experience (i.e. courses/languages/**internships**/etc) (and # semester in college). **Any newbies?**

3. **Project-1** (repeat this for each project)
   - Name: for example CYSCHED
   - **Problem being addressed**: for example climate change!
   - Description of project:
     – First, write one short para to describe what PROBLEM will your project will solve. What will it do? (Three of four sentences).
     – Second, write another para on how your project will work (what pieces make up your project). This is known as concept of operations.
   - Language/Platform/libraries (list these as best as you can) example: Android/Springboot + **any web apis**?
   - Large/Complex :
     – make a **list** briefly describing what makes this project large/complex (there has to be enough work for 4 persons for an entire semester). This will include things that are new to your team members (for example, you may never have worked on mobile development). (Follow guideline on page #7).

Complexity

- Client side
  - Number of Screens and complexity of each screen
  - Local processing
  - Networking with server
  - Connecting to apis
  - Local database use
  - Local devices use

- Turn-based, realtime, two-way, peer-peer?

- Server side
  - Routing
  - Server side Processing
  - Database access

- Database
  - Tables # and relationships

Proposal approval Process

1. When your proposal is complete, submit empty file on Canvas assignment.

2. We will look at submitted assignments, then go to the group wiki page and get back to you on our thoughts about your proposed project(s) as COMMENTS.

3. Revise repeatedly until… approved