CSE 521S Project Guidelines

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Steps

1. Select your favorite topic from a list
2. Form a team
3. Proposal: propose a design and plan
4. Analyze and Implement your solution
5. Evaluate your solution
6. Demo 1, 2 and Final Demo
7. Write a technical report
Project Topics

- Theme: IoT Cloud

- Build and demo an IoT application
  - Devices: Raspberry Pi, motes…
  - Amazon cloud: IoT, notification, alexa…
Get Started Early

- Think about topics and ideas
- Talk to Haoran and me
- Put together a team

- A **lot** of work (and fun) throughout the semester!
Teaming

- How many of you have full teams?
- Who need to find teammates?

Email Haoran your team members by 1/30
  - One email per team
Proposal

- One proposal/team, one page
  - Team members
  - Concise description of project
  - Responsibilities of each member
  - Specific equipment needed

- Written proposal due: 2/6, 11:59pm
  - Email to Haoran
Proposal Presentation

- In class on 2/6

- 15 min per group
  - Including 3 min for questions and discussions
  - 8 slides

- Your elevator pitch!

- Email Haoran your slides in advance
  - All use computer in classroom → reduce context switches
Demo I

- In class on 3/8.
- 15 min per team.
- Must show something **real**.
Demo II

- In class on 4/10.
- 15 min per team.
- Almost there! Substantial progress → final demo.
Final Demo

- In class on 4/26
- 15 min per team
- Set up and test your demo in advance
- All expected to attend the entire session
  - There will be snacks and drinks
- Return equipment to TA by 5/4
- It’ll be fun! 😊
Final Report

- Submit report/materials to Haoran by **11:59pm, 5/3**.

- **Report**
  - Style follows conference papers in the reading list
  - 6 pages, double column, 10 pts fonts
  - Use templates on the class web page

- **Materials**
  - Web page
  - Slides of your final presentation
  - Source code
  - Documents: README, INSTALL, HOW-to-RUN
  - Video on Youtube (if any)
Suggested Report Outline

- Abstract
- Introduction
- Goals
- Design
  - Hardware
  - Software
- Implementation
- Experiments
- Related Works
- Lessons Learned
- Conclusion and Future Works
Peer Review

- For fairness in projects.
- Email me on 5/3
  - Percentage of contributions of each team member.
  - Brief justification.