

Adv Web Design Studio  
HW5 – Observation AND Chat  
Due Friday Oct 4, 2019 at 1pm on Courseworks

**What to turn in:**

1. A video of your chat application.
2. A PDF with a write up of observation for YOUR group, based on two observation sessions of people in that group
3. A PDF with a write up of the observation for YOUR PARTNERS group, based on two observation sessions, based on two observation sessions of people in that group

**Part 1. Chat app**

Download the code for the reference implementation of login and chat.

1. Run the code
2. Pip install everything.
3. In app.py there are some comments and links to youtube videos that can walk you through the process of writing that code from scratch, if you want an explanation of that.
4. Come up with a use case for chat. That group should be clear from the name of the application and the UI.
5. Implement one feature that this group would find useful. For example, a group asking each other for coding question help would want to be able to format code in the chat.
6. Create a short video showing your chat app working. The video should show two different browsers with people who log in and then chat with each other.
7. The video does not need to be narrated, as long as the use case and the feature are clear.

**Part 2. Observations of two groups**

1. Find a partner.
2. Each of you identify a group who might have technological needs (or at least interact with technology).
3. For both groups, attend two sessions to observe for 1 hr each. They don't have to be group meetings, they could be individuals in the group doing work for the group, or team members working on something together.
4. For both groups, record the following observations (at least 5 per category)
  - a. Actions
  - b. Environments
  - c. Interactions
  - d. Objects
  - e. Users
5. For each category, identify two critical incidents and take a stab of what kind of technical solution might be used to address them. We suggest the following four types of technical solution, but if you think there's better solution, just name it.
  - a. Marketplace

- b. Communication Intermediary
  - c. Database (Content Management)
  - d. Workflow
  - e. (A fifth is a Workbench, like Word, PPT, Eclipse, Visual studio that provides a workbench of tools necessary to create a digital artifact. These are hard things to build, we didn't discuss it in class, but it is a major type of problem software solves.)
6. In each of your PDF write ups, include at least three photos you took to help illustrate the problems and solution type you are proposing.
  7. If you can't find critical incidents purely from observation in your first session, I would include some interview questions in your second session. You have some practice talking to user and asking them about critical incidents from the past, or telling you about the last time they did the activity. Use those skills!
  8. You are free to brainstorm and discuss your answers with your partner (or anyone else), but you must turn in your own write up for BOTH groups you observe. (yes, even your partners – because their observation session might have more interesting findings).