

Adv Web Design Studio

HW1

Due Friday Sept 13, 2019 at 1pm on Courseworks.

What to turn in:

1. A video of your Marketplace Project, including a voice over narration of Person A using the system and Person B using the system. The voice over should illustrate all the subgoals, states and transitions as well as all the CRUD operations your site can do.
2. A write up that includes:
 - a. What data is being provided and consumed?
 - b. What real world goal drives this need?
 - c. Person A is a data provider.
 - i. What is their persona – name, age, occupation, why do they need to provide data?
 - ii. When and how do they need to provide it?
 - iii. What real world goal does it help Person A achieve?
 - iv. What subgoals and states does the user go through to achieve this? Show images of at least three states drawn by hand. (a paper prototype)
 - d. Person B is a data consumer.
 - i. What is their persona – name age, occupation, why do they need to consume this data?
 - ii. When do and how do they need to consume this data?
 - iii. What real world goal does it help Person B achieve?
 - iv. What subgoals and states does the user go through to achieve this? Show images of at least three states drawn by hand. (a paper prototype)
3. A brainstorm of 10 groups on campus. For each group say,
 - a. What is the name of the group?
 - b. What is the primary goal of that group?
 - c. What is the name of one person you have talked to in that group?
 - d. What are three activities that person does that involve technology?

Part 1. Implementing a Marketplace

Implement a website with an HTML/JS/JQuery front end and a Flask backend. The goal of this site is for one group of users (data providers) to post data and another group of users (data consumers) to search and possibly edit this data. You must decide what the data is and who the providers and consumers of the data are. You will include this information in your write up.

This site serves as a technical prototype. It should function well, but it does not have to be pretty. You may bootstrap in this computer prototype if you want to, but don't spend time making purely aesthetic changes.

The site must allow users to complete all four CRUD operation:

1. Create – users can add new data to the database
2. Update – users edit data on the database
3. Delete – users can delete items in the database
4. Read – user can search over the data to see what’s in the database.

You will turn in a video with a voiceover narration that shows the users completing this CRUD operations in service of meeting their goal. It is okay if the provider does create, update and delete and the consumer only reads. Not all users have to do all the actions. The actions they take should be appropriate to their goal.

The video must show both users doing realistic things and reaching their goal.

The implementation details are as follows.

1. You must use a Flask server.
2. Your “database” is a JSON file stored on the server. (You may not use Mongo, MySQL, Postgres or any other database) – this is a prototype and we want to spend our time defining the specifications, not setting up databases.
3. Every item in your database must have a unique id.
4. JavaScript and jQuery front end. No Angular, No React, no other front end -frameworks. We want to make sure you know how to write event handlers the basic way.
5. A database that has at least 30 items in it. You may put them in by hand if you like. These items must be realistic. They cannot be placeholder data.

You do not necessarily need to have a user login page, or keep track of users for now. Data does not need to persist when you shut down the server.

Bring a laptop with your code working to class on Friday. We will give you feedback in sections.

Part 2. Brainstorming groups that may have needs.

Later in the course, we will be building applications that help real people achieve their goals. We will spend many iterations identifying which people to help, what goal they need help with, and how to help them.

First, we want you to brainstorm 10 groups on campus or the your local neighborhood, and figure out what goals they have. You need to know at least one person in that group who would be willing to talk to you more in depth about their needs. For this week, you may talk to them, if you want to, but you don’t have to. We will expand on this next week.