2024 CSC493 – Capstone Weekly Reports[1]

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Week: Week 3

Select Report Date: Sep 3, 2024

Part 1: Weekly Progress Report

- **Accomplishments**: What did you accomplish since the last class meeting?

  - Created a design flow chart for software components
  - Setup backend server with FastAPI
  - Setup PostgreSQL (was so annoying)
  - Mapped out database schema in dbdiagram.io.
  - Worked through a React Native tutorial to get oriented with the technology.
  - Created all of the models for my database in Python with SQLAlchemy
  - Started writing out backend logic and used Postman to test the backend endpoints.

  - Finalized the database schema and abstracted the models into their own files. This took a heinous amount of time.
  - Started on the login and signup logic for the application
  - Continued working through a 5 hour react native tutorial
  - Created more backend endpoints tested with Postman for rec creation and listening.

- **Challenges**: What are your current roadblocks?

  This week my roadblocks were time and availability. I had a lot of other priorities which meant I was unable to get as much done, unfortunately. I am also having a roadblock adjusting to the SQLAlchemy ORM from Peewee (what we use at the SSDT).

- **Desired Discussion Points**: Do you have any desired discussion points that are not related to roadblocks?

  I do not.

- **Future Goal**: What do you plan to accomplish before our next class meeting? These plans should be related to roadblocks or discussion points. If you plan to change direction, explain why.

  I want to get authentication for React Native squared away, and finalize my design documents. I also want to start creating reusable components for my frontend. I would also like to start better connecting my backend endpoints and frontend API calls.

Part 2: Time Reporting

Make sure that as you fill out the first prompt, you include in enough detail in the summary. For example, "debugging" is vague, but "debugged function X to make sure that when user does action Y, it is called and returns the value Z" is better.

- **Time Spent**: Briefly explain how much time you spent on your project. If you worked on multiple components, each should get a detailed summary.

  - Briefly worked on flowchart and design doc: 45 minutes
  - Refactored database schema to be in multiple files instead of 1: 2 hours
  - Worked on my login and signup page: 45 minutes
  - Writing new backend logic: 1 hour.
  - Testing backend endpoints: 30 minutes.
  - Working through React Native tutorial: 45 minutes

- **Weekly Total Time Spent**: Make sure to add up all the hours and minutes correctly.

  5.75 hours total.

- **Total Project Time Spent**: After the number of hours and minutes, make sure to briefly explain whether you are on track and if not, what you may need to do in order to achieve what you set out to accomplish.

  I am well on track, even though this was my least productive week due to a variety of other responsibilities. However, I would like to get some additional design work next week to balance out from this week.

Rubric:

The following rubric will be used, but they might change as needed.

Accomplishments (3 points)

1 point for a general description of progress, 2 points for specifics on progress, 3 points for specifics AND referring to previous targets and explaining how currently accomplishments build on previous ones.

Challenges (3 points)

1 point for mentioning there are roadblocks, 2 points for specifics, 3 points for specifics AND what was done already to try to overcome them.

Desired discussion points (2 points)

1 point for at least one relevant discussion point as a general question, 2 points for relevant discussion points with specifics

Future Goals (2 points)

1 point for concrete future targets (i.e. "working more on the project" is a zero, but "working on getting component X to interface with component Y" suffices), 2 points for tying in the targets with what was hopefully discussed in the meeting.

Time Spent (3 points)

1 point for including general statements of how much time was spent ("4 hours on coding"), 2 points for splitting time into specific parts ("1.5 hours on research on component X, 1 hour coding, 2.5 hours debugging"), 3 points for specific parts and details on the pieces ("1.5 hours researching Turtle interface for drawing concentric circles given inputs from the user, 1 hour coding function X that used that interface, 2.5 hours testing function X by giving it multiple values and fixing errors for values A, B, C, and D")

Weekly Total Time (1 point)

Total Project Time (2 points)

1 point for summing the values correctly, 2 points for the total time AND reflection on progress (you are confident to fit the target and if not, what course corrections you anticipate needing to make)