

2024 CSC493 – Capstone Weekly Reports¹

Your name: Finn Bledsoe

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.

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

I don't really have any roadblocks. The only real ones are my lack of familiarity with React Native and my lack of time that I can spend on this project, even though I have been putting pretty much all of of my freetime into it. I am working through some React Native tutorials and looking things up as I go which have been helping. I think I will just overcome this with time.

- **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 would like to continue hammering away at my design documents. Specifically my frontend UI design and my system design flowcharts. I see this is a prerequisite to really getting into the weeds and coding. I would also like to get a large portion of the basic backend logic working as well.

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.

¹ Detailed Weekly Report requirements can be found here: [2024 URCPP Capstone - Using Agile and Reporting Out](#)

- Setting up PostgreSQL database: 1.5 hours
- Creating software component flowcharts and scenarios: 1.5 hours
- Designing database schema: 2 hours
- Creating DB models and getting them to work, 2.5 hours.
- Porting over existing and writing new backend logic: 1.5 hours.
- Testing backend endpoints: 30 minutes.

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

9.5 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. I have completed most of the design and because of that I have started working on backend logic. But I would like to finalize the frontend UI mockup before working on that.

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)