Individual Weekly Report for Ayush Mehta

AI Powered Cooking Assistant Web App

July 14, 2025

# Accomplishments

* Met with the librarian online to find API for recipe suggestions.
* Updated the design spec based on the professor feedback
* Presented the first slide show

# Weekly Activities

| Activity / Task / Work | Hours | Status |
| --- | --- | --- |
| Continue learning React through Scrimba.com.   * Finished the React state component of the course * Learned about the props and state. How to change the state of component and have it render automatically. * How to use the inline CSS in JSX * How to use forms in REACT and retrieve form data and process it | 10 | In progress |
| Class time | 2.5 | Complete |
| Worked on final design spec   * Updated the goals to relate with capstone competencies * Added details for the data flow diagram and database dictionary * Fixed the quarter tables for spacing and schedule | 2 | Complete |
| Worked on slide show 1 | 2 | Complete |
| Librarian Meeting | 0.5 | Complete |
| Worked on weekly report 3 | 1 | Complete |
| Explore the resources provided by Librarian | 1 | Complete |
| * Created a google form for stakeholders * Reach out to friends and old classmates to discuss my project and be stakeholder | 1 | Complete |
| **Weekly Total** | **20** |  |
| Previous Weekly Cumulative Total (Carry Over) | 40 |
| **Current Cumulative Total** | **60** |

# Plans for Next Week

| Activity / Task / Work | Est Hours |
| --- | --- |
| Continue learning React on Scrimba.com | 8 |
| Learn basics of Flask framework and set it up locally | 4 |
| Work on the contract | 3 |

# Response to Feedback

I received some feedback from my classmates and professor during the slide show.

* Agam gave a suggestion to use OpenCV library in python to help improve the image quality. This will help me with the images which are of poor quality. I think this should be doable to implement in my backend.
* Hyunji suggested simply show the error to the user if their image quality is bad. I think this is what I would do if OpenCV is not able to improve the image quality enough for Google vision API.
* Professor Oliver proposed adding ingredients suggestions as the user is typing the ingredients manually. I think this is a great idea. I can have suggestions when users are typing manually and choose not to upload an image. It will make the user experience better and help think about ingredients.

I also met with librarian, Ja Salvador through zoom, where we discussed my project, testing strategies, and recipe generation/suggestions API. She had already done so much research and gathered a lot of resources for me. During our meeting, she explained her research process and answered several of my questions. I have started reviewing the materials and will spend more time this week going through them to determine which ones are most relevant to my project.

# Other Reflections

Over the past week, I have made solid progress in learning React and finished many small challenges from Scrimba website. I am now ready to get started on making the GitHub repo, set up the backend and frontend framework, and learn how to integrate the Google vision API in the backend and test it.

While learning React, I also learned about the Claude AI and Hugging Face which could be useful for my recipe generation part of the project. I plan to research their capabilities and pricing further, and if they are a good fit, I will explore how to integrate them effectively.

# Comments, Issues, Notes, Anything Else?

No comments or issues as of now.

# Evidence of Work

The two screenshot below of React code from Scimba website shows that I learned to use React state based on the data values and use props to send it to the component.  
Note: Scrimba website does not have a light mode, therefore the screenshots are showing dark mode.

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AI-generated content may be incorrect.

A black rectangular object with a black border

AI-generated content may be incorrect.

# Interaction Report

Interaction Type: Librarian

Interaction Date: July 11th, 2025

Attendees: Ja Salvador, Ayush Mehta

## Summary of Interaction

Prior to the meeting, I updated the document Ja Salvador had provided with information about my project, questions I had, and areas where I needed support. During our meeting, she walked me through several useful resources she had already found. She provided a comprehensive list of APIs that could be used for recipe generation and also shared effective research techniques such as using multiple keywords and search strategies on Google to find more targeted information.

## Action Items

* Review the list of recipe generation APIs provided by Ja
* Select the top three APIs, compare their features, and choose the most suitable one for integration.
* Learn how to use the selected API by reviewing documentation and relevant YouTube tutorials.

## Reflection on the Interaction

After our meeting, I feel much more confident in doing research for my project. Ja introduced me to effective web search strategies and provided some high-quality resources that will be incredibly helpful moving forward. I am especially grateful for the curated list of APIs, which has given me a clear direction for the next steps in my project.