

On my 16th day at Surfboard Payments internship, I worked on creating a dashboard with a feature that allows users to upload CSV files. The main purpose of this dashboard was to identify duplicate payments from the uploaded data. When we click on the "Find Duplicate Payments" button, the system processes the provided CSV file and detects duplicate transactions. This feature is particularly useful for my mentor, as it helps him quickly identify and analyze duplicate payments, making his work more efficient. This task was quite challenging for me because it required knowledge of both frontend and backend development. However, by working on this project, I was able to learn more about how web applications function and how different components interact with each other.

While developing the dashboard, I had to focus on designing a user-friendly interface that would make it easy to upload CSV files and process the data. I learned how to handle file uploads on the frontend, ensuring that users could select and submit their CSV files without any issues. Additionally, I worked on implementing the backend logic to read the uploaded file, process its contents, and check for duplicate transactions based on specific criteria. This involved working with data structures and algorithms to efficiently compare different records in the file and identify duplicate entries.

One of the key challenges in this task was ensuring that the duplicate detection process was accurate and efficient. Since CSV files can contain a large number of transactions, I had to optimize the processing logic to handle large datasets without slowing down the dashboard. I learned how to structure the data properly, parse the CSV file, and compare relevant fields to determine whether a payment was a duplicate. Understanding how to work with data in this way gave me a better grasp of backend processing and database management.

Throughout this process, my mentor provided valuable guidance and notes that helped me understand the requirements of the project. He explained the key aspects of finding duplicate payments and how to implement the logic effectively. His guidance made it easier for me to break down the task into smaller steps and approach it systematically. With his help, I was able to understand how to structure the backend logic, store the processed data, and display the results on the dashboard in a clear and organized manner.

This project also helped me improve my problem-solving skills, as I had to think critically about how to handle different scenarios in the data. For example, I had to consider cases where multiple duplicate transactions existed, how to format the results properly, and how to handle errors in the uploaded file. Working through these challenges gave me a deeper understanding of how real-world applications handle data processing and validation.

By the end of the day, I had made significant progress on the dashboard, and the core functionality was in place. Although there were still some improvements and refinements to be made, I was able to successfully implement the main feature of identifying duplicate payments. This task was a big learning experience for me, as it gave me hands-on exposure to both frontend and backend development. It also showed me the importance of data management in financial applications and how technology can be used to improve efficiency in payment processing.

Overall, working on this project was a great experience, as it allowed me to apply my knowledge in a

practical setting while learning new concepts along the way. The dashboard I created will be useful for my mentor and the team, and I feel proud of the work I accomplished. This experience has given me more confidence in handling complex development tasks, and I am excited to continue learning and improving my skills in the upcoming days of my internship.