IMPLEMENTATION APPROACH

I started by writing the SQL file to describe the two tables – customers and transactions. I inserted some dummy records into them for future testing in the frontend.

I then went about creating a rough draft of the frontend. I thought about the layout of how things nest into one another and how they sit side-by-side or top-down. I did this as I am more comfortable with backend work and that takes me less time to get into.

I started with the sidebar, as that seemed the most difficult to implement. I used some components from shadcn/ui such as the sidebar, table, cards. Then slowly I created the views (tables) for the customers and transactions, followed by ‘Add New’ and ‘Edit’ pages.

From the backend side I started with connecting the different pages to allow easy routing. I then started work on the APIs so that the records can be fetched from MySQL. My priority was first only on correctly viewing the records on the webpage.

Once that was done, and the pages for Add and Edit were created, I then wrote the functions for the same, and tested them out, including delete.

Finally, I implemented the tertiary functions such as Search and *Download to Excel*.

CHALLENGES

By far, the biggest challenge I faced was making all the pages, the sidebar, and the tables responsive. Fortunately, I got it to work quite well, however the code base has become a bit messy in some areas.