

Student Name: Nidhi Nidhi

Date	Number of Hours	Description of work done
Jan 23, 2025	3	Researched Node.js, express, EJS, react, and bootstrap and their usage & their possible shortcomings. Added sequence diagram to repo. Initially I planned to use Flutter but then changed my plan to use bootstrap instead as Flutter has slower loading times, and potential browser compatibility issues. Bootstrap is a matured platform with great community support and responsive UI web design.
Jan 24, 2025	1	Created sequence diagram about possible flow of the idea using mermaid.live (had to learn how to create flow diagrams).
Jan 26, 2025	2.5	Created Project Proposal
Jan 27, 2025	3	Researched about databases (SQL, NoSQL) that would fit this project. Settled on using NoSQL with MongoDB because it's free with fair usage. Didn't chose SQL (mysql) because it's relational database. This means changing the schema of tables later on would be a lot of work. Because there are going to be iterative updates to the data users upload (schema can change), going with NoSQL instead.
Jan 28, 2025	1	Finalized tech stack.
Jan 29, 2025	2	Set up things up version control with git, practiced essential git commands, for testing.
Feb 5, 2025	2	Initial code checked in repo and pushed the initial setup code
Feb 8, 2025	1	Designing the sign up, login pages (In progress)

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Feb 8, 2025	2	Roughly designed the sign up, login, dashboard and home pages on a paper.
Feb 12, 2025	3	Planned the design of home page and implemented it. Went through the documentation and started creating a basic home page. Later pivoted to another plan, changed the design and created different view for a registered user and a visitor.
Feb 15, 2025	3	This week, I worked on creating different pages for the app. Initially, I kept all pages in one folder but later on when pages start increasing I thought of creating multiple folders. For e.g, I kept different pages for a logged user and different pages for a a visitor who just views the website.
Feb 16, 2025	2	Created Basic navbar & login page. Referred bootstrap documentation. Took lot of hit and trial while formatting CSS for navbar. Code checked in the repo -> Implementation -> views -> layouts
Feb 18, 2025	2	For authentication, I planned to use Passportjs library. However, it's a bit complicated for my use case where it's just login with username and password. Hence, decided to create my own authentication
Feb 20, 2025	3	Tried connecting to MongoDB cluster that I created with mongodb as a service. It was failing to connect. Finally figured out that by default all ip addresses are blocked to access the database. Opened the database to receive traffic from any ip address for now.
Feb 21, 2025	3	This week, I updated completed the Login and register pages. Code checked in the repo -> Implementation -> views -> visitor. Started writing Midterm Report.
Feb 22, 2025	4	Created footer and add expense floating button. Rectified errors and fine tuned the code of sidebar. Code checked in the repo -> Implementation -> views -> layouts. Updated the Midterm Report.
Feb 23, 2025	3	Created dashboard template that breakdown your expenses into different categories and shows it in a nice pie chart. Used chart.js library for generating these charts. However, the data is hardcoded for now and will connect to database later.
Feb 24, 2025	2	Final update on MidTerm Report.

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Feb 25, 2025	2	Refined css on login page, register page. Added banner for successful login.
Feb 28, 2025	2	Went through documentations and tutorials to get more info about creating real-time insights with Gemini
Mar 5, 2025	2	Did some research on Gemini integration with Gemini Code Assist. Research document added to repo.
Mar 8, 2025	1.5	Researched on single collection vs multiple collection design pattern.
Mar 10, 2025	3	Created a different collection for user and expense because it's easier to work on expense(sorting, calculations, indexing etc.) if we have multiple collections. Code checked in the repo -> Implementation->models->Expense.js
Mar 12, 2025	2	Since, expenses are in it's own collection, they can now be looked up. Next step is to provide UI in transactions tab on dashboard page.
Mar 14, 2025	3	Went through Google gemini's documentation on Build integrations with Gemini Code Assist. Had to try lots of methods to get json response from gemini in the format that I wanted.
Mar 15, 2025	3	Added auto-expense creation feature through gemini integration. Previously, expenses were categorized manually by limited categories. Now, gemini categorize the expense by itself. Code checked in the repo ->implementation folder.
Mar 16, 2025	1	Code checked in repo Implementation->routes->dash.js. Research document added to repo. Next, I will work on the real-time insights (for a range of date) and transactions part.