

ITCS-5102: Survey of Programming Languages

POST MIDTERM PROGRESS REPORT

Group7- CodeX

Project Title: Sales Tracker

Team Members:

1. Srinivas – 801330017
2. Nikhita Bharat Upadhye – 801337745
3. Rakesh – 80137430
4. Vachana - 801306456

What is the current status of your project? Are you on track?

Backend is almost ready in Go language. Currently we have implemented

1. POST “/tasks”: Inserts the provided sales item details to the database.
2. PUT “/tasks”: Updates the sales item provided to the API.
3. GET “/tasks”: Returns all the sales data stored in the database (In-Memory Database for now)
4. GET “/tasks/:id”: Returns the sales data based on the provided id.

Yes, currently we are on track for the next 2 weeks we will be focusing on the frontend + refining the database.

What are pending use cases:

1. Few API's based on user info is pending and authentication(login/registration) part is pending.
2. FrontEnd and Database are pending.

Discuss any challenges that were not anticipated

1. Connecting ReactJS frontend with GoLang backend smoothly requires meticulous API design and handling using tools like Axios for HTTP requests and this part was challenging.
2. Though Go simplifies memory management, understanding pointers' behavior, especially their differences from slices and maps, may pose initial challenges for beginners.
3. Go's error handling encourages diligent error checking where they occur, potentially leading to verbose code if not managed carefully.
4. Navigating Go's module system, especially with the introduction of modules (go mod), can initially be tricky, but leveraging tools like Go Modules and understanding versioning can streamline the process.

Contributions:

1. Backend: Nikhita and Srinivas
2. Frontend: Vachana and Rakesh
3. Database: Srinivas and Vachana
4. Documentation: Rakesh and Nikhita

Include a link to the version control system where your existing code is stored. We may go through the commit history of your code to double check your progress.

[Github link](#)