

# Mutual Fund Broker Web Application with RapidAPI Integration

## Problem Statement

Your task is to create a backend application for a mutual fund brokerage firm from scratch. The application should allow users to perform the following operations.

- Create a new account using an email password
- Login using email + password provided during registration
- Select a fund family house, fetch open-ended schemes for that family, and integrate with the RapidAPI to fetch mutual fund data.
- View their portfolio and track current value of the investments hourly.

Additionally, you can choose to create a simple frontend application to interact with your backend application. You can choose any frontend approach, including using a modern framework like React, Angular, Vue or simply using vanilla JS and HTML.

**Please note that the frontend application, if provided, will only be evaluated for understanding of the client server model.**

## Integration with RapidAPI:

1. Sign up for an account on RapidAPI to obtain the required API key.
2. Integrate with the external API specified in the RapidAPI marketplace (<https://rapidapi.com/suneetk92/api/latest-mutual-fund-nav>) to fetch mutual fund data based on the selected fund family house.
3. Integrate to fetch only the open-ended schemes, also the API provides parameters to choose the fund family

## Submission guidelines

- Provide link to the git repository hosting the application code. Preferably, on Github.
- Provide clear documentation for setting up and running the applications.
  - Include instructions for users to set up the application locally, including how to use the environment file and integrate the RapidAPI key.
- Provide initial database migration scripts for creating tables necessary to run application
- Include e2e tests covering the endpoints

Brownie points for providing a postman collection covering the success & failure responses