Fullstack Developer Currency API Assignment

Task Definition: You are to implement a Currency Exchange and Analytics application.
Note: Currencies must have their own logo.

Functional Requirements

- Find a third party service Provider API for handling currency conversion.
- Create User Auth API for SignUp
- Create User Auth API for SignIn (based on Signup password)
- Create an API to Create User Balance / Wallet
- Create an API to Read User Balance / Wallet
- Create an API to Update User Balance / Wallet
- Create an API to convert currency
- Create an API to allow users to upload a profile photo.

IF you are not applying for a Junior/Fresher role, some additional features are to be developed. These should be done only after you have submitted the functionality above.

- Create an API to send money in a currency and receive the same in a different currency to another User
- Create an Order analytics API to identify avg Profit and loss for the money transferred (Price during money transfer, Current Price) based on date ranges(End Date will always be current Date)
- Find an average money transferred for every weekday - Implement a method that will analyze orders dataset and return a map with average transferred quantity of a currency for every weekday.
- Create a PDF and send it users on successful order placement
- Setup Redis Cache for the services you feel required
- Setup Background Task Scheduler to send Monthly Statement of their transactions to the users (Add Fields as per your choice)

Technical Requirements

- APIs must be developed in Python3 using Rest-APIs
- You must use Git as you write the app.
- You are encouraged to use any third party libraries you like.
- All API testing will be done through the Postman app (https://www.getpostman.com/).
- You must export and share your Postman "Collection" to test the APIs in your root dir
- At least one unit test script must be written for the functionality implemented.

Submission Instructions

- Call your project "CurrencyXchange"
- Add instructions in the Readme.md file on (1) what the app is about, (2) any assumptions you made while planning and developing your solution, and (3) how a junior developer should pull, build, deploy and test the API on their laptop.
- Make sure to read the assignment requirements once again before final submission.
- You will be evaluated on app architecture, patterns and quality of code.

ALL THE BEST!!!