

# BackEnd Developer Challenge #1

We are going to have a microservice to keep all data of the user wallet. We need to have two API to expose them to other microservices.

## API Information:

- **get-balance:**

This API should return a JSON to show the current balance of a user. The parameter which is needed for this API is *user\_id* and the output should be like the below sample:

**Input:** *user\_id int*

**Output:** `{"balance":4000}`

- **add-money:**

This API should add money to the wallet of a user and at the end return the transaction reference number. The parameter which is needed for this API is *user\_id* and amount and the output should be like the below sample:

**Input:** *user\_id int amount int* (this parameter can be negative)

**Output:** `{"reference_id":12312312312}`

## Please consider the below points:

- Please Dockerize the project
- Use MySQL as a database to store your data
- We need to Save all transaction logs of user
- We need an API to show balance of each user
- We need an API to add money to wallet of user
- We need to have some necessary test cases (just 6 test case to make sure you know about this procedure)
- We need a daily job to calculate total amount of transactions and print it on terminal
- You don't have to develop any API or service for user, just develop the necessary services which are related to wallet