Hi All,

Sharing the assignment **@Ashutosh**, **@Pawan**, **@Ranjeet** will be your mentor for this assignment.

Evaluation Process: Evaluation would NOT be done on your system. It would be a clean sandbox on a different machine. Code would be checked out from github, built on the command line and executed. With that, your code would be reviewed, graded and feedback provided during review.

MILESTONE 1: 12th Jan 1 PM

REST application of user management using Spring Boot and Spring Data. This application will perform basic CRUD(Create, Read, Update, Delete) operations on the User table. **1.API which will create a user in the user table.**

- url:<u>http://localhost:8080/user</u>
- METHOD: POST
- input:userName, firstName, lastName, mobileNumber, emailID, address1, address2
- Validations : same email id, userName or phone number (user already exists)

2.API which will read data from the database.

- url:http://localhost:8080/user?userId=<userID>
- METHOD: GET
- Result: ashutosh,rathor, 999999999, ashutosh.rathor@paytm.com

3.Update API

- url:http://localhost:8080/user
- requestParam: userID
- METHOD:(PUT)
- validation: user should exist

4.API which will delete data in the user table.

- url:http://localhost:8080/user
- requestParam: userID
- validation: user should exist

Hint:

sample link https://www.journaldev.com/17034/spring-data-jpa

Expectations:

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- 1. Flow Diagram
- 2. Schema Design
- 3. Workable Code with proper comment
- 4. Proper Test Cases

MILESTONE 2: 14th Jan 5 PM

Wallet Management

1. Create Wallet: API which will create wallet for a user

- url:http://localhost:8080/wallet
- METHOD : POST
- input: phone number
- Authentication Token {{JWT}}
- Validations : phone number should exist , only one wallet for a user.
- After creation push event in kafka

2.API to transfer money from one wallet to another wallet (p2p).

- url:http://localhost:8080/transaction
- METHOD : POST
- input:{payer phone number,payee phone number,amount}
- Validations : payer and payee both should exist, payer should have sufficient balance.
- After transfer push event in kafka

3.Transaction Summary API

- url:http://localhost:8080/transaction?userId=<userId>
- METHOD: GET
- Validations: userId should exists
- Note: this api should return in a pagination way.

4.Transaction Status

- url:http://localhost:8080/transaction?txnld=<txnID>
- Method :GET
- Validation: TransactionId should exists

Expectations:

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- 1. Flow Diagram (Visual Paradigm)
- 2. Schema Design
- 3. All Apis should have authentication {{JWT}}}
- 4. Code with proper comment
- 5. Junit Test cases
- 6. Debugging through log4j

Milestone 3: 18 Jan 5 PM

- 1. Serve Traffic through load Balancer i.e Nginx.
- 2. Ingest Data in elasticSearch through Kafka.
- 3. Write consumers in flink pipeline.
- 4. Serve transaction through ElasticSearch
- 5. Fuzzy searching on phone number, name and amount.

url:http://localhost:8080/transaction?userId=<userId>

METHOD: GET

Validations: userId should exist

Note: this api should return in a pagination way.

Good Luck. 😊