

Backend test

- Create microservices (Nodejs - Express) for CRUD operation and store in database (MongoDB) for user data - (Point 40)
 - User data : Id, userName, accountNumber, emailAddress, identityNumber
- Protect the APIs using the authorization header JWT - (Point 5)
- Validate authorization header JWT – (Point 5)
- Choose 1 of 3: - (Point 30)
 - Implement cache strategy using Redis for user data.
 - Consume user data from Kafka and insert to MongoDB (consumer only)
 - Produce user data from mongodb to kafka (producer only)
- Create Unit Test - (Point 10)
- Deploy into docker/heroku or any platform services and running - (Point 10)

Notes:

- Provide API to generate JWT token
- Follow OOP coding practises (Design pattern and principles – SOLID) and data structures.
- For read operation please create functions to get user by accountNumber and get user by IdentityNumber.
- Please define the constraint and indexing keys in database.
- Please use your name with the following format:
 - Database name (i.e: db_*****_betest)
 - Microservices/Project name (i.e: ms-*****- betest)
 - Redis name (i.e: redis_*****_ betest)
 - Kafka/topic name (i.e: kafka_*****_ betest)
 - Git Repo name (i.e: *****- betest.git)

(change *** with your name)**

Send the codes by git repository (github / bitbucket/ gitlab) link

Please send us the test result at the latest 2 days from today.
You will continue to interview session and discussion if you pass the test.

Should there be any questions, please do not hesitate to contact us.