

Microservices ASSESSMENT

Springboot + REST

Thanks for taking out time for this
assessment and we wish you the best!



The Task



1. Build microservices to facilitate personal finance management.
2. Create RESTful APIs using latest version of Springboot
3. Follow APIFirst OR CodeFirst design
4. Along with the working code, submit Swagger specifications and postman collections to test the APIs
5. Create project repositories on your personal Github account, push the code and share the repository links
6. Ensure the README file in each project contains instructions to start the services, along with the Swagger specifications and Postman collections.

The Problem



- Create a set of microservices which allows users to manage their finances by setting budgets, tracking expenses and receiving alerts for budget exceedances.
- Consider Inter service communication.
- Notifications should have following details
 - Budget category - Eg., Groceries
 - Budget Amount
 - Expense description
 - Expense amount
- Use Spring Data JPA for data access
- Use H2 in-memory data
- Keep APIs open (no authentication/security required)



Ratings Weightage



Ratings for the assessment would be determined using the below criteria



Design & Approach

Criteria	Weightage
Well defined domain boundaries	4
Inter-service communication design	2
Domain driven database design	2
Failure Handling/Resilience	2

Coding

Criteria	Weightage
Applications starting without errors	2
Completion of all essential APIs	2
REST API best practices (resource naming, methods, status codes, etc)	2
Clean code	2
Unit Tests and documentation	2