



KHABRI

ASSIGNMENT FOR BACKEND DEVELOPER

- *Create a production ready API that calculates the Average of currency exchange rates for a given date range. User should be able to provide Date Range and List of currencies for which average is required. User will be allowed to enter minimum date from 01-01-2000. And maximum date till today.*
- *The Result should be displayed as a List of currencies with their Average.*
- *You can get the historical exchange rates from
GET <https://api.exchangeratesapi.io/2010-01-31>*
- *You should be able to deploy the application via an automated CI/CD pipeline. The solution should be production ready and bug free. You should have handled all the use cases. If you are making any assumptions you should have a valid reason for this. Proper validation should be done. Your solution should be scalable and implementation of cache should be bar raiser.*
- *Use of spring boot framework is mandatory. If required please use docker images where necessary.*

EVALUATION

1. *Object Oriented Programming Concepts*
2. *Scalable design*
3. *Logical ability & Problem Solving*
4. *Understanding of deployment and continuous integration*
5. *Use of lambda in java*
6. *Understanding of Data structure (Map, List, etc.)*
7. *Understanding of spring boot*
8. *Understanding of rest api calls*
9. *Understanding of importance of cache*
10. *Ability to develop a small piece of software that functions with errors*
11. *Ability to write unit tests*
12. *Ability to understand an ambiguous problem and take a decision*

Good Luck!!