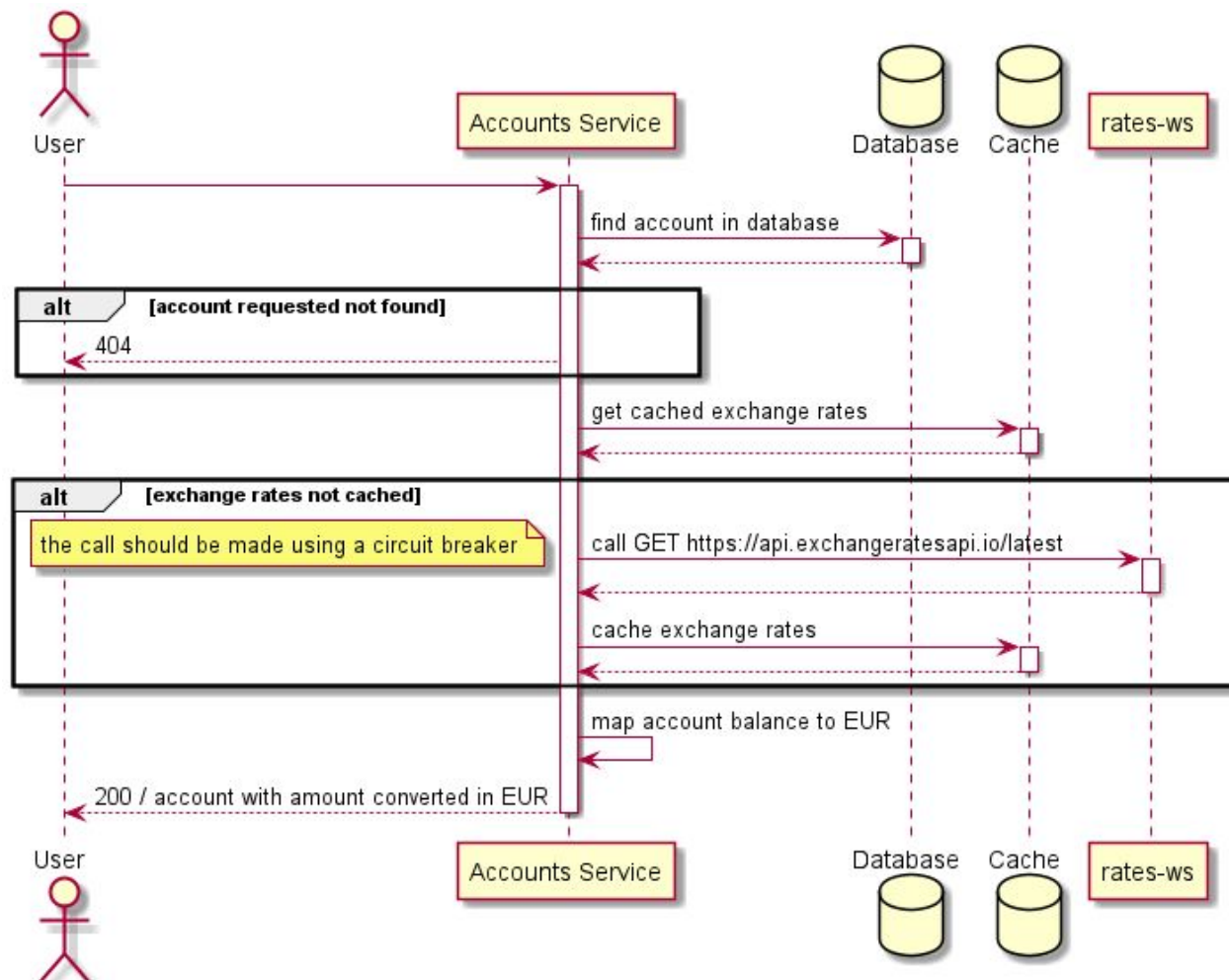


# Homework

Write an “Accounts Service” Spring Boot application that exposes a REST operation which implements the flow below:



## Implementation details:

Database:

- any SQL database
- Models an account entity that has the following properties: iban, currency, balance, last update date
- Use spring data for DB interactions

Cache:

- any cache provider (can be in-memory)

Rates-ws:

- URL: GET <https://api.exchangeratesapi.io/latest>
- You can use any circuit breaker library you want

Testing:

- Write Unit tests for the business layer for the following test cases:
  - account not found
  - account found in database and rates are cached
  - account found in database but rates are not cached
  - DTO mapping
- Write an integration test (Spring Boot test) with an in-memory database that goes through the whole flow but with a mocked **rates-ws**

Version Control:

- Version the project with GIT