Jakarta EE Developer /   
Cloud Native Developer

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# Introduction

The application procedure from tech11 has several steps. This test is one of it and gives us the opportunity to determine at which status you are regarding the necessary knowledge for this position.

Later on, if you succeed in this step, you will have the chance to present your solution within a personal interview (or remote via video chat). Here we will discuss your approach and have a deep dive into your solution/concept.

**Please send your solution to** [**jobs@tech11.com**](mailto:jobs@tech11.com)**.**

# The Task

The task describes a fictive story that you should implement in **Java** backed with Jakarta EE (<https://jakarta.ee/>).

Your solution should run on an **application server** like Wildfly, Glassfish, Payara or Open Liberty.

For the implementation, please use only dependencies that are provided by Jakarta EE (no need for additional dependencies).

(Optional you can also use Quarkus (<https://quarkus.io/>) as runtime).

User Story:

**As administrator, I want that users can register and maintain their user accounts themselves, so that I have more free time.**

[just for your information: such services are of course already available – like in Keycloak. But for this test, it’s a nice small example]

Please analyse from a business point of view, which technical services could make sense to implement these requirements.

For this test, please implement at least the service endpoints that are described below. If you analysed more services, please create an empty implementation stub for the additional services.

Functional business requirements:

* A user entity should have at least the following attributes: firstname, lastname, email, birthday and password.
* There should be the following service end points:
  + list all users
  + receive data from a single user
  + add new user
  + modify existing users

Non-functional technical requirements:

* Please implement just backend service without user interface
* The service should only provide a RESTful WebService interface.
* The payload should be transferred as JSON
* Data should be stored within the in-memory database of the used application server
* For this test task, there is no need for authentication

Please send the full project as zipped file to [jobs@tech11.com](mailto:jobs@tech11.com).