

Recruitment assignment - 2018 - Cosmose

Your task is to implement a system for online room reservations. The system is used by hotel owners and customers. Customers can book the room. Hotel owners can define which rooms are available.

Operations available in the system

1. Register a customer.
2. User searches for available hotel rooms. Search criteria include:
 - a. period
 - b. city
 - c. daily price range
3. User asks for room reservation for specific period.
4. User can check their reservations.
5. User can cancel his reservation.

Hotel and its room configuration should be pre-configured, there is no need to expose any endpoint to add/change/remove hotel nor room in hotel. There are no other business requirements than the ones described above. We will be assessing technical aspects of the solution, so please don't implement additional requirements.

Technical requirements

1. Create only backend API. **Do not implement front-end - front-end implementation is not part of the assignment and will not be rated.**
2. The system have to expose REST endpoints for all operations described above.
Prepare an acceptance test to show how the endpoints work (the test should communicate with working system through HTTP calls). All communication is synchronous.
3. You have to use:
 - a. Relational database (use some lightweight db solution or open source dockerized db).
 - b. Java 8
 - c. Spring Boot
 - d. Hibernate
 - e. Maven
 - f. JUnit or TestNG
4. Write unit tests only where it makes sense.
5. You **do not** have to implement authentication nor authorization.
6. Create README.md with short description how to initialize the database, run the system and the acceptance tests.
7. Focus on quality, simplicity of the code and API.

The completion of the assignment should not take longer than 8 hours.