

# Java Technical Test

We invite you to our technical test. This allows us to verify your skills with the languages we use in our technical stack.

Do not spend more than 4 hours on this test. Please carefully read over the sections below to see exactly what we are looking for.

Please create a RESTful webservice with any framework you are familiar with.

## Terminology

A booking is when a guest selects a start and end date and submits a reservation on a property.

A block is when the property owner or manager selects a range of days during which no guest can make a booking (e.g. the owner wants to use the property for themselves, or the property manager needs to schedule the repainting of a few rooms).

## Backend

Java (11 or newer)

The REST API should allow users to:

- Create a booking
- Update booking dates and guest details
- Cancel a booking
- Rebook a canceled booking
- Delete a booking from the system
- Get a booking
- Create, update and delete a block

Implement proper validation to ensure data integrity. Provide logic to prevent bookings from overlapping (in terms of dates and property) with non-canceled bookings or blocks.

## Database

We recommend use of in-memory volatile DB.

## Instructions

When you are done, upload your project to a public Github repository and email us a link.

Please have this technical test completed within 1 week. If you have any questions related to this technical test, let us know.

Thank you for taking the time to complete this test and best of luck!