Backend coding challenge

We will not ask you to design a fancy algorithm. In the end that is not what you are going to do on a daily basis if you work for us. Instead, please deliver something **production-ready** which makes you proud and follows the best engineering practices. Please focus on the requirements provided here and avoid overengineering your solution. Focus on showing us how you would have solved a problem in your daily work.

We ask you to provide a backend solution, ideally involving:

- Java 8+
- Spring Boot 2.5+ (You may use Spring Initializer to bootstrap the project https://start.spring.io/)
- Maven/Gradle
- Database of your choice (In-Memory database is acceptable)
- Docker or Docker Compose

Case study

George is a local travel guide who provides private hiking tours. Hikers can go on 3 different trails: **Shire**, **Gondor** and **Mordor**. George would like to have a booking system that allows hikers to book a hike.

Business Information

Trails

```
{
  "name": "Shire",
  "startAt": "07:00",
  "endAt": "09:00",
  "unitPrice": 29.90
}

{
  "name": "Gondor",
  "startAt": "10:00",
  "endAt": "13:00",
  "unitPrice": 59.90
}

{
  "name": "Mordor",
  "startAt": "14:00",
  "endAt": "19:00",
  "unitPrice": 99.90
}
```

unitPrice represents the price per hiker.

Conditions

- A booking can contain multiple hikers. A hiker should provide the following information: firstName , lastName and age .
- A booking can be done for one trail only.

Task

You should provide Restful APIs that perform the following tasks:

- · View all trails
- · View a selected trail
- Book a selected trail
- · View a booking
- · Cancel a booking

Assumptions

Given the limited amount of time to complete the task, you may assume the following:

• Any authentication/authorisation functionality is **NOT** required.

Technical Requirements

Your application should meet the following technical requirements:

- The trails' data should be initialized in the database on application start up.
- Have an example of a unit test (Additional unit tests are welcomed if there is spare time).
- Have an example of an integration test (Additional integration tests are welcomed if there is spare time).
- A README file with detailed instructions/commands to run it.
- It should run out of the box without any installations or configurations (databases, JDKs, etc)
 required by us.

Important

- Please deliver your solution within 7 days. You are free to spend any reasonable amount of time that you deem sufficient to achieve the technical requirements and makes you proud of your solution.
- Your solution will be compared against other candidates applying for the same job position, in terms
 of code quality and production-readiness.
- Please do not publish the solution to your public GitHub profile or something similar. You may send us your solution by sharing it as a zip file or via your private cloud account (Google Drive, OneDrive, etc).