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. Use the tools developers use when they work on the real thing. 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 Spring Boot.

Case study

George is a local travel guide who provides private hiking tours of the mountains in his locality. Hikers would contact him over the phone to go on three different hike trails: Shire, Gondor and Mordor. He would enter each booking request in a spreadsheet along with the hikers' information. As the number of requests for his services are increasing, he is finding it difficult to handle his business efficiently.

Business Information

Trails

```
Name: Shire
Start: 07:00
End: 09:00
Age limit (inclusive): 5 — 100
Price: 29.90 EUR per person
```

```
Name: Gondor
Start: 10:00
End: 13:00
Age limit (inclusive): 11 — 50
Price: 59.90 EUR per person
```

```
Name: Mordor
Start: 14:00
End: 19:00
Age limit (inclusive): 18 — 40
```

```
Price: 99.90 EUR per person
```

Conditions

- A hiker must be within the specified age limit of the chosen hike trail
- A hiker can include more than one hiker in his/her booking; provided that they are within the age limit of the chosen hiking trail
- Each booking should be for one hiking trail only

Task

Design and implement a solution that would allow:

1. Hikers to create, cancel and view their bookings
2. George to view hike bookings for a specific day

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

- There is no restrictions on the number of bookings that can be made daily
- The dates and times of hike bookings can overlap each other as many times as possible

Important

- Please make sure that your solution has a README file with detailed instructions/commands to run it
- Your solution should run out of the box without any manual configurations required by the reviewer
- Please do not publish the solution to your public GitHub profile or something similar.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 via your private cloud account (Google Drive, OneDrive, etc)
- You should not invest more than 7 hours on the task. Please deliver your solution within 7 days
- Your solution will be compared against other candidates applying for the same job position, in terms of code quality and production-readiness