

Technical Challenge #1

Full Stack Developer

Room Booking Service

Expected completion time: **2-3 hours**

*As remote working culture continues to expand, an emerging real estate startup decides to make all of its buildings available to digital nomads. To track all of the spaces and who is working where, the startup needs a **REST API** to easily **CREATE**, **DELETE**, and **MODIFY** rooms.*

Your task is to build a REST API with the following features

Requirements:

1. Ability to create a room with an **id**, **name**, **number**, and **occupant**
2. Ability to update a room's **occupant** field.
3. Ability to delete a room
4. Ability to get a list of all rooms

Considerations:

1. While **TypeScript** is preferred, feel free to use the language of your choice
2. You may use frameworks, but please document / explain your choices
3. Your API is available at a public url and is deployed using the technology of your choice (Firebase Functions, Heroku, AWS Lambda, ECS...)
4. Data is persisted using the technology of your choice (DynamoDB, PostgreSQL, Firebase Datastore...)
5. Source code is hosted on GitHub

Bonus Points (not required):

1. Add a single page frontend that works with your service using either React or Vue
2. Provide CI/CD using your favorite service (Github Actions, Circle Ci...)
3. Add authentication support