

Restaurant Reservation Interview Project

Introduction

You have been tasked with the development of the backend API for a simple reservation platform for restaurants, called “Rezzyraunt”. Using this platform, users will be able to book reservations on a variety of restaurants that have registered on Rezzyraunt.

User Stories

1. As a User I want to be able to book a reservation for one or more people at a given time
2. As a User I want to be able to see what time slots are free at a restaurant
3. As a User I want to be able to cancel a reservation
4. As a User I want to be able to reschedule a reservation
5. As a Restaurant I want to charge a reservation deposit of \$10 to the user, charged per person, which is refunded upon completion of their visit, so that Users don't abuse my schedule
6. As a Restaurant I want to refund the reservation deposit if the user has cancelled or rescheduled their reservation more than 24 hours in advance
7. As a Restaurant I want to keep 25% of the reservation fee if the User cancels or reschedules between 12:00 and 23:59 hours in advance, 50% between 2:00 and 11:59 in advance, and 75% between 0:01 and 2:00 in advance
8. As a Restaurant I want to keep 100% of the reservation deposit if the User does not show up for their reservation
9. As a Restaurant I want to be able to see a history of my past reservations so that I can use the information to improve the management of my establishment
10. As a Database Administrator I want records of past reservations to be accessed from separate tables than current reservations, and I want the reservations tables purged everyday at 3:00 am, so that I can maintain the size of the tables

Simplifying Assumptions

If you are making any assumptions, please clearly document them. Try to keep things simple. Some assumptions you can make:

- A user authentication/authorization system is not required

- People will always eat for 1.5 hours - no more, and no less

Constraints

1. Use Spring Boot
2. Ensure the code is well tested
3. Ensure the app is RESTful

Deliverables and Closing Note

Please actively develop this via a repository on Github, and supply us with links to your repository.

If possible, please deploy your service online and provide a link of the running application to us, so that we can test it.

Expect that we will follow the instructions on your Readme to deploy your application.

There are many different ways to accomplish this project. Make sure you document why you decided to do it the way you did. Remember, this is an interview project, we don't expect you to spend 40 hours on it, however we expect you to justify the decisions you make.

Good luck!