Event Reservation REST API: Take Home Challenge

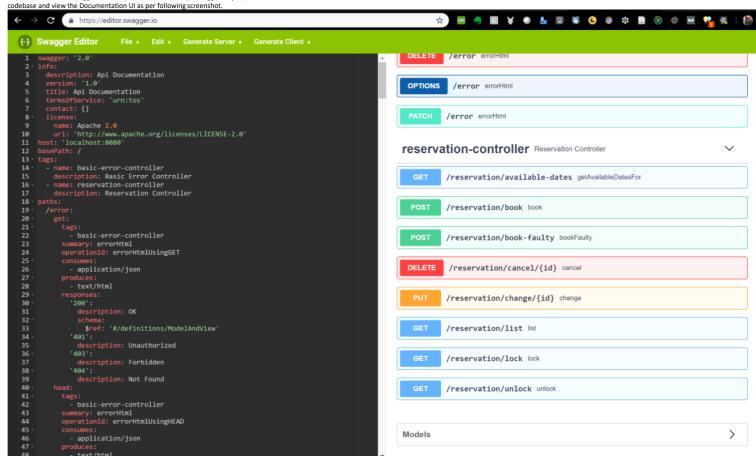
Friday, October 19, 2018 5:24 PM

Introduction

- 1. Java Version: 1.8
- 2. Framework: Spring Boot
- 3. Database: H2 (In-memory)
- 4. URLs
 - a. REST API hosted at http://localhost:8080/
 - b. H2 DB Console: http://localhost:8080/h2-console
 - c. Swagger JSON: http://localhost:8080/v2/api-docs
- Unit Tests for the Repositories, Service & Controller are written. See Testing section for additional details.
- Integration Tests to verify appropriate handling of Race Condition(s) are written. See Testing section for additional details.

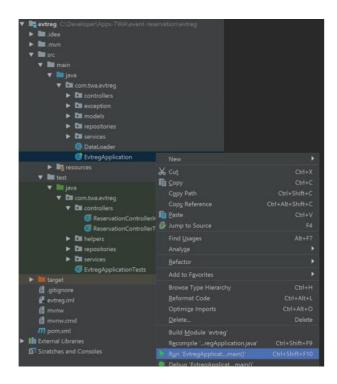
API Documentation

- 1. Open the online Swagger Editor by navigating to the following URL https://editor.swagger.io/
- 2. Import the REST API Swagger v2 JSON (event-reservation-api-swagger-v2.json), included in the



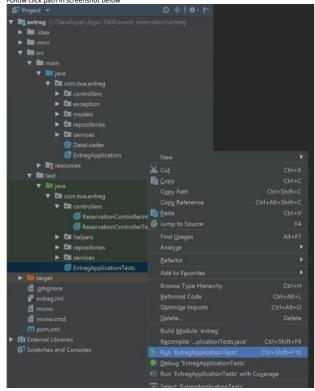
Launch Application

- 1. Open the project in IntelliJ
- 2. Follow the click path shown in the screenshot below to launch the application
- 3. This will launch the application on http://localhost:8080/
- In addition, you can access the H2 console at http://localhost:8080/h2-console/



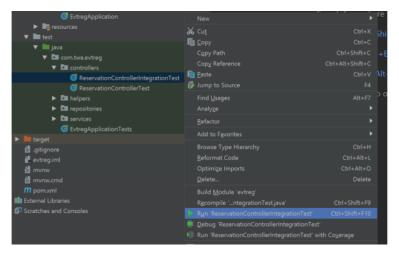
Running Testing

How to run Unit Tests 1. Follow click path in screenshot below



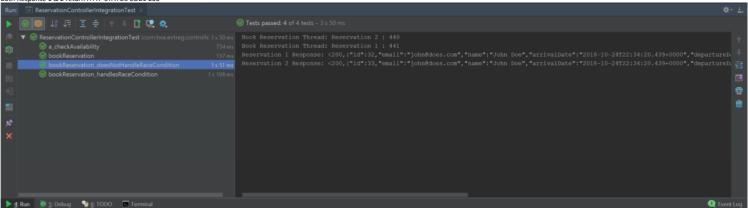
How To Test Race Condition

- 1. IDE: IntelliJ
- The Integration Tests are defined in com.twa.evtreg.ReservationControllerIntegrationTest
- Right Click on the above mentioned Java Class and choose "Run" from the Context Menu
 This should trigger the Tests as shown in the below
- 5. Then click on the appropriate Test to see the corresponding **Response** logged in the **Console**.



Race Condition Not Handled

Both Response 1 & 2 return HTTP STATUS CODE 200



Race Condition Handled

- Response 2 returns HTTP STATUS CODE 200
- Response 2 returns HTTP STATUS CODE 200
 Response 1 returns HTTP STATUS CODE 404

