**TicketApplication**

TicketApplication developed based on Spring Boot Version (2.1.2.RELEASE) and uses in memory data base H2

Ticket application provide rest services to view reservation, hold seats for a certain duration and auto free up seats which are on hold for a certain duration.

Self runnable application can be executed on any IDE where maven dependencies are configured. This application required Java 8 as the minimum requirement to run.

Ticket services are created on JPA over H2 due to its ACID properties

Below is the basic architecture of the application

Controller

Service

Repo

H2

Scheduler

**Request**

<http://localhost:8080/displaySeats?eventId=1549655231920>

Response

[

"----------[[ STAGE ]]------------",

"---------------------------------",

"RRsssssssssssssssssssssssssssssss",

"sssssssssssssssssssssssssssssssss",

"sssssssssssssssssssssssssssssssss",

"sssssssssssssssssssssssssssssssss",

"sssssssssssssssssssssssssssssssss",

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"sssssssssssssssssssssssssssssssss",

"sssssssssssssssssssssssssssssssss"

]

**Holding Seats**

Request <http://localhost:8080/findAndHoldSeats?eventId=1549655231920&numberOfSeats=2&email=ff@test.com>

Response

{

"numSeats": 2,

"customerEmail": "aa@test.com",

"bookingStatus": true,

"eventId": 1549655231920,

"seatHoldId": 1549923825543

}

**Reserving seats**

<http://localhost:8080/reserveSeats?eventId=1549655231920&seatHoldId=1549923825543&email=aa@test.com>

{

"message": "Seat reservation successfull",

"status": true

}

<http://localhost:8080/displaySeats?eventId=1549655231920>

[

"----------[[ STAGE ]]------------",

"---------------------------------",

"RRRRRRRRsssssssssssssssssssssssss",

"sssssssssssssssssssssssssssssssss",

"sssssssssssssssssssssssssssssssss",

"sssssssssssssssssssssssssssssssss",

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]

Scheduler will free up seats which are on hold after 10 mins (Configurable property )

**H2 Console can be opened on below URL**

<http://localhost:8080/h2-console/>

