Date – June/09/2019

Pizza ordering app – API

# Technology used

These are the technology used

## Gradle Build tool

### The build tool has been used for creating the Spring Boot and its dependencies

### The project can be executed using Eclipse , intellJ or any modern IDE

### These are the command which can be use to execute the project

#### $ ./gradlew

#### $ ./gradlew bootRun

### The project is configured to use port 8181

## POST MAN API Endpoint for checking and testing

### <https://www.getpostman.com/collections/df64066eb78853866673>

## H2 Database

### In memory database is good choice to create a POC/Demo project

### Connecting to the H2 Database (Use <http://localhost:8181/console> )

### 

### The database can only be connected after running the application

### Following are the tables, ( created/used by this application)

### Deals

SELECT \* FROM DEALS ;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| [CODE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [DESCRIPTION](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [PERCENT](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [DEALSTARTDATE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [DEALENDDATE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [LASTCHANGETS](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) |
| 3001 | `0% off deals on total | 10.00 | 2019-01-01 | 2019-12-31 | 2019-06-09 14:18:23.211 |
| 3002 | 20% off deals on total | 20.00 | 2019-01-01 | 2019-12-31 | 2019-06-09 14:18:23.212 |
| 3003 | 30% off deals on total | 30.00 | 2019-01-01 | 2019-12-31 | 2019-06-09 14:18:23.212 |
| 3004 | 40% off deals on total | 40.00 | 2019-01-01 | 2019-12-31 | 2019-06-09 14:18:23.212 |
| 3005 | 50% off deals on total | 50.00 | 2019-01-01 | 2019-12-31 | 2019-06-09 14:18:23.213 |
| 3006 | 60% off deals on total | 60.00 | 2019-01-01 | 2019-12-31 | 2019-06-09 14:18:23.213 |
| 3007 | 70% off deals on total | 70.00 | 2019-01-01 | 2019-12-31 | 2019-06-09 14:18:23.213 |
| 3008 | My DQL | 8.90 | 2019-01-01 | 2019-09-09 | 2019-06-09 14:18:27.651 |

### Toppings

SELECT \* FROM toppings;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| [CODE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [DESCRIPTION](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [PRICE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [ACTIVE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [INVENTORY](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [LASTCHANGETS](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) |
| 2001 | Olives | 2.50 | Y | 200 | 2019-06-09 13:21:02.289 |
| 2002 | Onions | 1.25 | Y | 198 | 2019-06-09 16:10:04.113 |
| 2003 | Tomato | 2.25 | Y | 198 | 2019-06-09 16:10:04.114 |
| 2004 | Spanish | 0.75 | Y | 200 | 2019-06-09 13:21:02.29 |
| 2005 | Carrots | 3.05 | Y | 200 | 2019-06-09 13:21:02.29 |
| 2006 | Feta Cheese | 1.05 | Y | 197 | 2019-06-09 16:10:04.118 |
| 2007 | mix veggies | 3.25 | Y | 198 | 2019-06-09 16:10:04.117 |
| 2008 | meat | 3.65 | Y | 199 | 2019-06-09 16:10:04.117 |
| 2009 | chicken | 5.25 | Y | 200 | 2019-06-09 13:21:02.29 |

### Pizza

SELECT \* FROM pizza;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [CODE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [DESCRIPTION](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [PRICE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [INVENTORY](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [LASTCHANGETS](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) |
| 1001 | Large - Hand Tossed - Alfardo Sause | 10.25 | 100 | 2019-06-09 13:21:02.282 |
| 1002 | Medium - Hand Tossed - Alfardo Sause | 9.25 | 148 | 2019-06-09 16:10:04.112 |
| 1003 | Small - Hand Tossed - Alfardo Sause | 7.50 | 130 | 2019-06-09 13:21:02.283 |
| 1004 | Large - Hand Tossed - BBQ Sause | 10.25 | 100 | 2019-06-09 13:21:02.283 |
| 1005 | Medium - Hand Tossed - BBQ Sause | 9.25 | 150 | 2019-06-09 13:21:02.283 |
| 1006 | Small - Hand Tossed - BBQ Sause | 7.50 | 130 | 2019-06-09 13:21:02.283 |
| 1007 | Large - Hand Tossed - Tomato Sause | 10.25 | 100 | 2019-06-09 13:21:02.284 |
| 1008 | Medium - Hand Tossed - Tomato Sause | 9.25 | 150 | 2019-06-09 13:21:02.284 |
| 1009 | Small - Hand Tossed - Tomato Sause | 7.50 | 129 | 2019-06-09 16:10:04.116 |
| 1010 | Large - Hand Tossed - Garlic White Sause | 10.25 | 100 | 2019-06-09 13:21:02.284 |
| 1011 | Medium - Hand Tossed - Garlic White  Sause | 9.25 | 150 | 2019-06-09 13:21:02.285 |
| 1012 | Small - Hand Tossed- Garlic White  Sause | 7.50 | 130 | 2019-06-09 13:21:02.285 |
| 1013 | Large - Thin Crust - Alfardo Sause | 10.25 | 100 | 2019-06-09 13:21:02.285 |
| 1014 | Medium - Thin Crust - Alfardo Sause | 9.25 | 150 | 2019-06-09 13:21:02.286 |
| 1015 | Small -  Thin Crust - Alfardo Sause | 7.50 | 130 | 2019-06-09 13:21:02.286 |
| 1016 | Large -  Thin Crust  - BBQ Sause | 10.25 | 100 | 2019-06-09 13:21:02.286 |
| 1017 | Medium -  Thin Crust  - BBQ Sause | 9.25 | 150 | 2019-06-09 13:21:02.286 |
| 1018 | Small -  Thin Crust - BBQ Sause | 7.50 | 130 | 2019-06-09 13:21:02.287 |
| 1019 | Large -  Thin Crust -Tomato Sause | 10.25 | 100 | 2019-06-09 13:21:02.287 |
| 1020 | Medium -  Thin Crust - Tomato Sause | 9.25 | 150 | 2019-06-09 13:21:02.287 |
| 1021 | Small -  Thin Crust -Tomato Sause | 7.50 | 130 | 2019-06-09 13:21:02.287 |
| 1022 | Large -  Thin Crust - Garlic White Sause | 10.25 | 100 | 2019-06-09 13:21:02.288 |
| 1023 | Medium -  Thin Crust -Garlic White  Sause | 9.25 | 150 | 2019-06-09 13:21:02.288 |
| 1024 | Small -  Thin Crust - Garlic White  Sause | 7.50 | 130 | 2019-06-09 13:21:02.288 |
| 1025 | Purple Cheese Pizza - small | 8.90 | 1 | 2019-06-09 15:08:04.553 |

### Orders

SELECT \* FROM orders;

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [ORDERNUMBER](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [FIRSTNAME](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [LASTNAME](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [FINALAMOUNT](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [BEFOREDISCOUNT](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [DISCOUNT](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [DEALCODE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [ORDERDATE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [ORDERTIME](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [LASTCHANGETS](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) |
| 90001 | FastSpring | coorporate | 100.00 | 200.00 | 100.00 | 3001 | 2019-06-09 | 13:21:02 | 2019-06-09 13:21:02.295 |
| 90002 | Aadu | Sharma | 23.15 | 46.30 | 23.15 | 3005 | 2019-06-09 | 16:10:04 | 2019-06-09 16:10:04.12 |

## Swagger UI

### The swagger UI is used to explore the end points –

<http://localhost:8181/swagger-ui.html#/manager-api>

### Following API end points are available to be used

### 

# How these API works

## Inquiry API (Get methods for Deals, Pizza and Toppings)

### (Get) /inquiry/getalldeals - The user can inquiry all the deals exists in the application using /inquiry/getalldeals . The application currently designed to give percentage off deals (like 10% off, 25% etc) , the application does not support any other type of deals

### (Get) /inquiry/getallpizza - The user can inquire all the type of pizza options available along with the price and available inventory using end point /inquiry/getallpizza

### (Get) /inquiry/getalltoppings - The user can inquire all the type of toppings available along with the price and available inventory using end point /inquiry/getalltoppings, One inventory of topping can be only used with one pizza and it’s the basic unit of toppings used along with the pizza.

## Managed API (Add methods for Deals, Pizza and Toppings, Update inventory of pizza and toppings)

### (Put) /manage/addpizza – This endpoint can be used to add new pizza type. Used need to add type of crust and size using multiple add request, This API is designed to add type of pizza (pizza type, crust type, sause type and its price in one record of database as follows –

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [CODE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [DESCRIPTION](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [PRICE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [INVENTORY](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [LASTCHANGETS](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) |
| 1001 | Large - Hand Tossed - Alfardo Sause | 10.25 | 100 | 2019-06-09 13:21:02.282 |

## This put Rest method used following request parameter

## description

## price

## inventory

## The new record will inserted into the pizza table using autoincremented code filed(this is the primary key in the table)

## Example -

## 

### (Put) /manage/addtoppings – This endpoint can be used to add a new toppins type, User can add the inventory along with the

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| [CODE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [DESCRIPTION](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [PRICE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [ACTIVE](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [INVENTORY](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) | [LASTCHANGETS](http://localhost:8181/console/query.do?jsessionid=014b6791be93f45b765c29f1769006e4) |
| 2001 | Olives | 2.50 | Y | 200 | 2019-06-09 13:21:02.289 |

## This put Rest method used following request parameter

## description

## price

## inventory

## The new record will inserted into the toppings table using autoincremented code filed(this is the primary key in the table)

## The new record will inserted into the pizza table using autoincremented code filed(this is the primary key in the table)

### Example -

### 

### (Put) /manage/adddeal - This end point can be used to add a new deal type, User can add the percent off along with the description

### 

### (Post) /manage/updatetoppinginv - This end point can be used update existing topping inventory

## 

### (Post) /manage/updatepizzainv - This end point can be used update existing pizza inventory

### 

## Order API ( Get all orders & Create a new order)

### (Get) /Order/getallorders - This endpoint will return all the order in the application

### (Post) /Order/placeorder –

##### The API is used to create the order, User can create order for one pizza (with or without topping and can select one or more topping with one pizza)

##### This API can take multiple type of Pizza order (With different type of Topping list)

##### For Each order the inventory or pizzas and topping get decreases.

##### The API will return record level error for zero inventory but still allow to place the rest of order.

##### If particular pizza inventory is not available (zero), the entire toppings records list will get discarded

##### This API can accept only one Deal code and will give % off on entire Bill

##### The response of this API is form of the receipt where give total before and after discount