

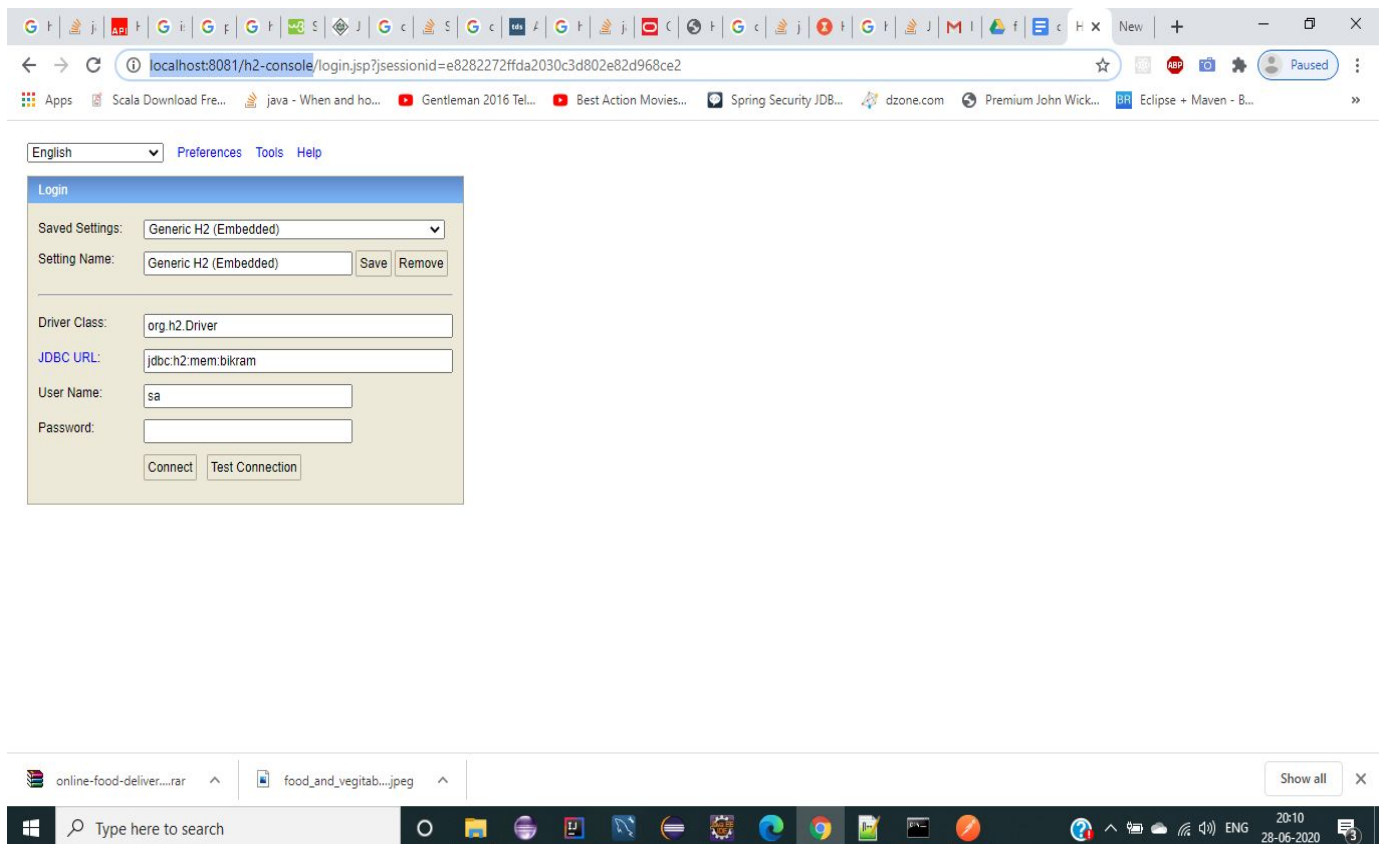
Food Delivery System

TECHNOLOGY:

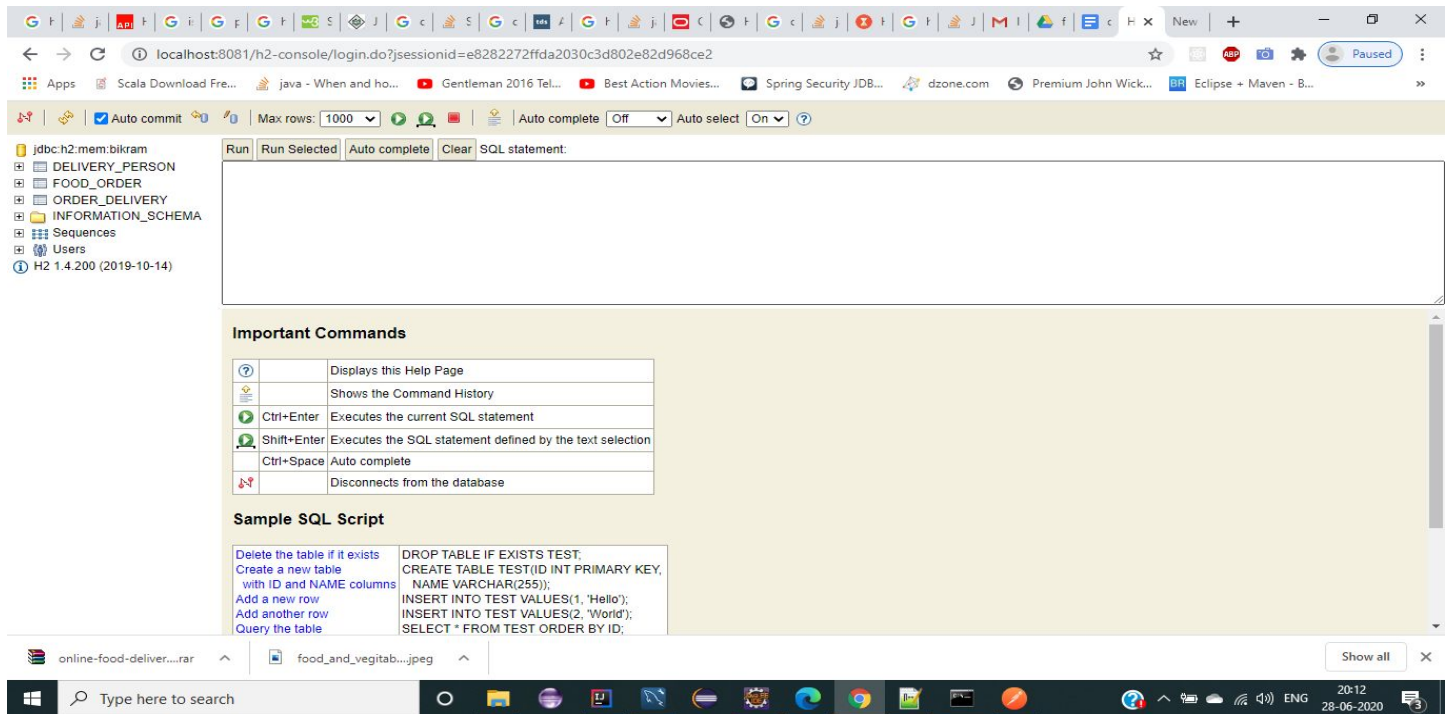
Spring boot with JPA, H2 Database, all the h2 properties are declared in application.properties file.

SERVER_PORT : 8081

To See the H2 console, after running the application,
hit the url → <http://localhost:8081/h2-console>



Then Provide the JDBC URL : **jdbc:h2:mem:bikram**
And then click **connect**.



REST API FOR ONLINE FOOD DELIVERY

1. Post API to place an order

API URL = <http://localhost:8081/api/restaurants/orders>

Request Payload :

```
{
  "restaurantId": "Dominos234",
  "specialNote": "mention my friends Name Rintu",
  "customerContact": "9564425897",
  "items": [
    {
      "itemId": "Pizza23",
      "name": "Chicken Dominar",
      "price": 320,
      "quantity": 2
    },
    {
      "itemId": "Pizza43",
      "name": "Veg Supreme",
      "price": 270,
      "quantity": 2
    }
  ]
}
```

Response :

```
{
  "orderId": 1,
  "customerContact": "9564425897",
  "totalPrice": 1180,
  "expectedDeliveryTime": 1593353106493,
  "orderStatus": "accepted"
}
```

API Description :

- ⇒ To place an order, customer will use this API.
- ⇒ After placed an order the status of the order will be **ACCEPTED**
- @param OrderRequest
- @return OrderResponse ----> order details
- @throws OrderPlacedException

Postman Result:

The screenshot shows the Postman interface with a POST request to `http://localhost:8081/api/restaurants/orders`. The request body is a JSON object:

```
{
  "restaurantId": "Dominos234",
  "specialNote": "mention my friends Name Rintu",
  "customerContact": "9564425897",
  "items": [
    {
      "itemId": "Pizza23",
      "name": "Chicken Dominar",
      "price": 320,
      "quantity": 2
    },
    {
      "itemId": "Pizza43",
      "name": "Veg Supreme",
      "price": 270,
      "quantity": 2
    }
  ]
}
```

The response body is a JSON object:

```
{
  "orderId": 1,
  "customerContact": "9564425897",
  "totalPrice": 1180,
  "expectedDeliveryTime": 1593353106493,
  "orderStatus": "accepted"
}
```

The status bar indicates a 200 OK response with a time of 789 ms and a size of 377 B.

2. Post API to delegate an order to a delivery person who is active

API URL : <http://localhost:8081/api/orders/delegate>

Request Payload :

```
{
  "orderId" : 1,
  "deliveryPersonId" : 2
}
```

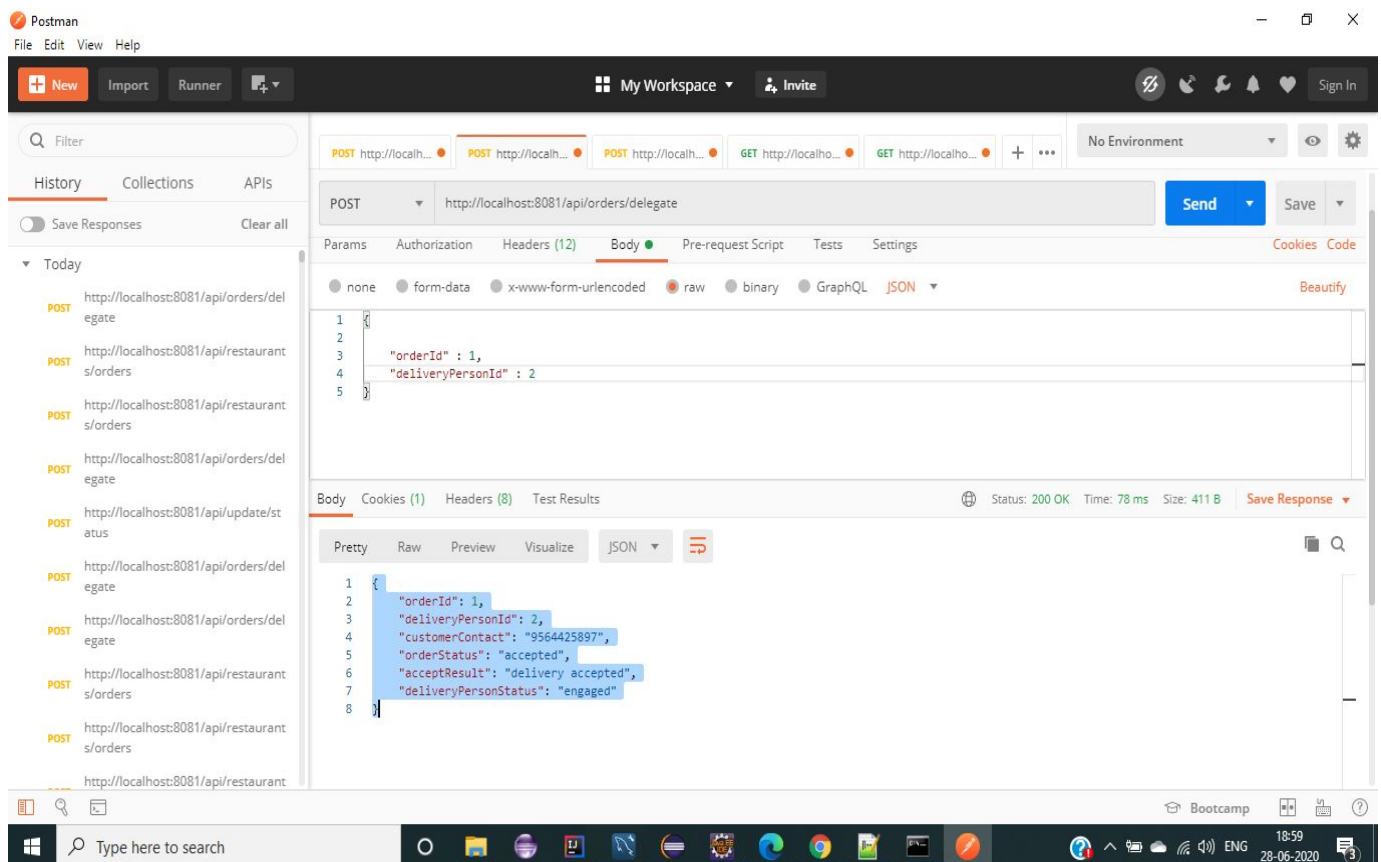
Response :

```
{
  "orderId": 1,
  "deliveryPersonId": 2,
  "customerContact": "9564425897",
  "orderStatus": "accepted",
  "acceptResult": "delivery accepted",
  "deliveryPersonStatus": "engaged"
}
```

API Description:

- ❖ To delegate an order to a delivery boy who is active, not engaged, (the status of delivery boy can be **active**, **inactive**, **engaged**) Once an order is delegated to a delivery boy, the status of that delivery boy will be **engaged**.
 - ❖ If the delivery boy is engaged to deliver a parcel then it will throw an exception saying **Delivery boy is already busy, please looks for other shippers**.
 - ❖ If the orderId is already delivered then it will throw an exception saying order is already delivered
- @param OrderDeliveryReq
@return OrderDeliveryResponse --- > order delivery details
@throws OrderDelegacyException

POSTMAN RESULT



3. Post API to update the order status (to be used by delivery person)

API URL : <http://localhost:8081/api/update/status>

Request Payload :

```
{
  "orderId" : 1,
  "orderStatus" : "delivered"
}
```

Response :

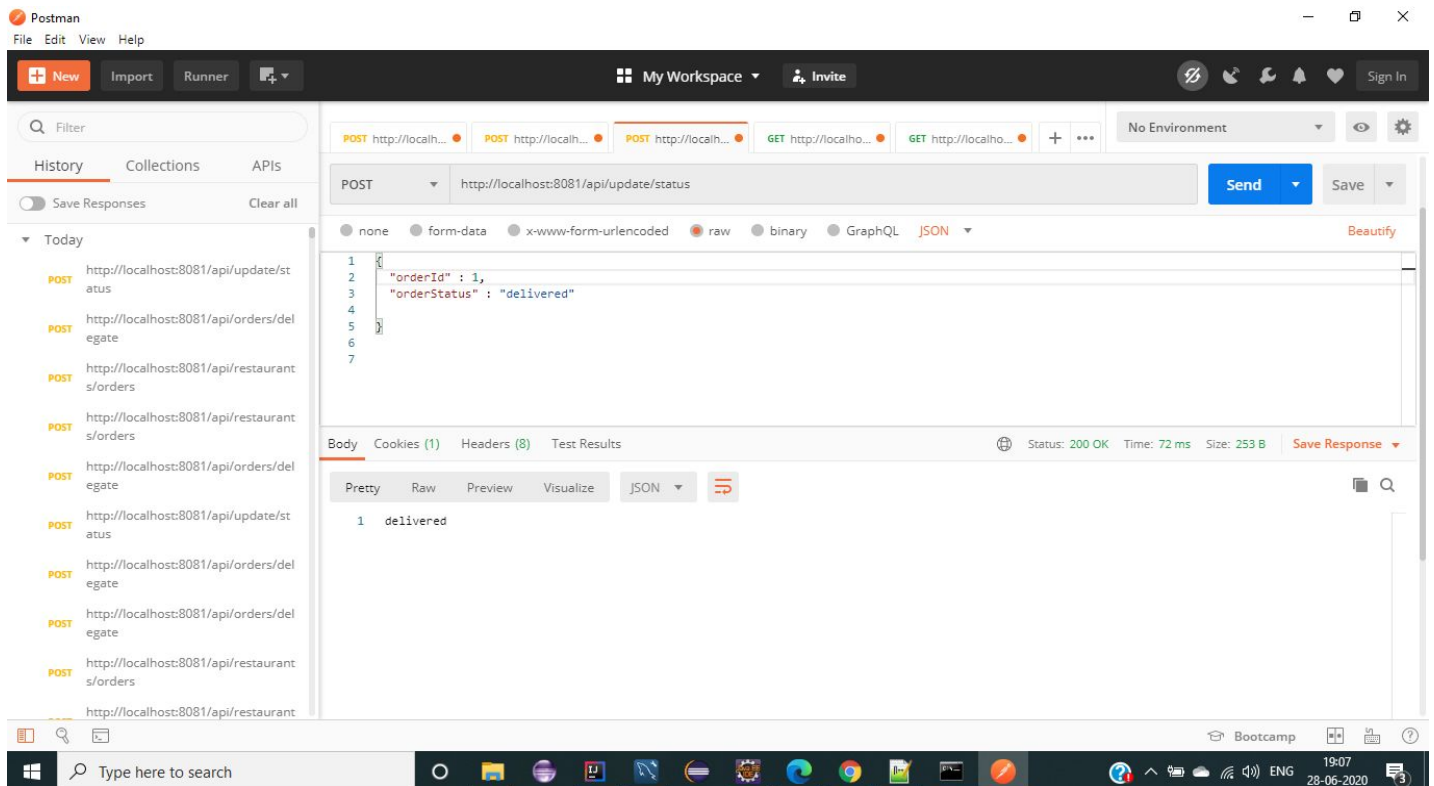
delivered

API Description :

- ⇒ To update the order status (This API will be used by the delivery boy).
- ⇒ orderStatus can be any of these (ACCEPTED, PREPARING_FOOD, ON_THE_WAY, DELIVERED).
- ⇒ Once an order is placed in restaurant, the status of the order will be ACCEPTED.

- ⇒ Delivery Boy can update the status as PREPARING_FOOD.
 - ⇒ If delivery boy collects order parcel from Restaurant, he can update this as ON_THE_WAY.
 - ⇒ After delivered the parcel to the Customer, delivery boy will update the status as DELIVERED and the status of the delivery boy will be active instead of engaged.
- @param DeliveryStatusModel, contains two parameters, orderId, orderStatus
 @return String (order status with respect to orderId)
 @throws UpdateOrderStatusException

Postman Result :



4. GET API to get the status of an order

API URL : <http://localhost:8081/api/order/{orderId}/status>

If orderId 1

Then

<http://localhost:8081/api/order/1/status>

Response :

delivered

API Description :

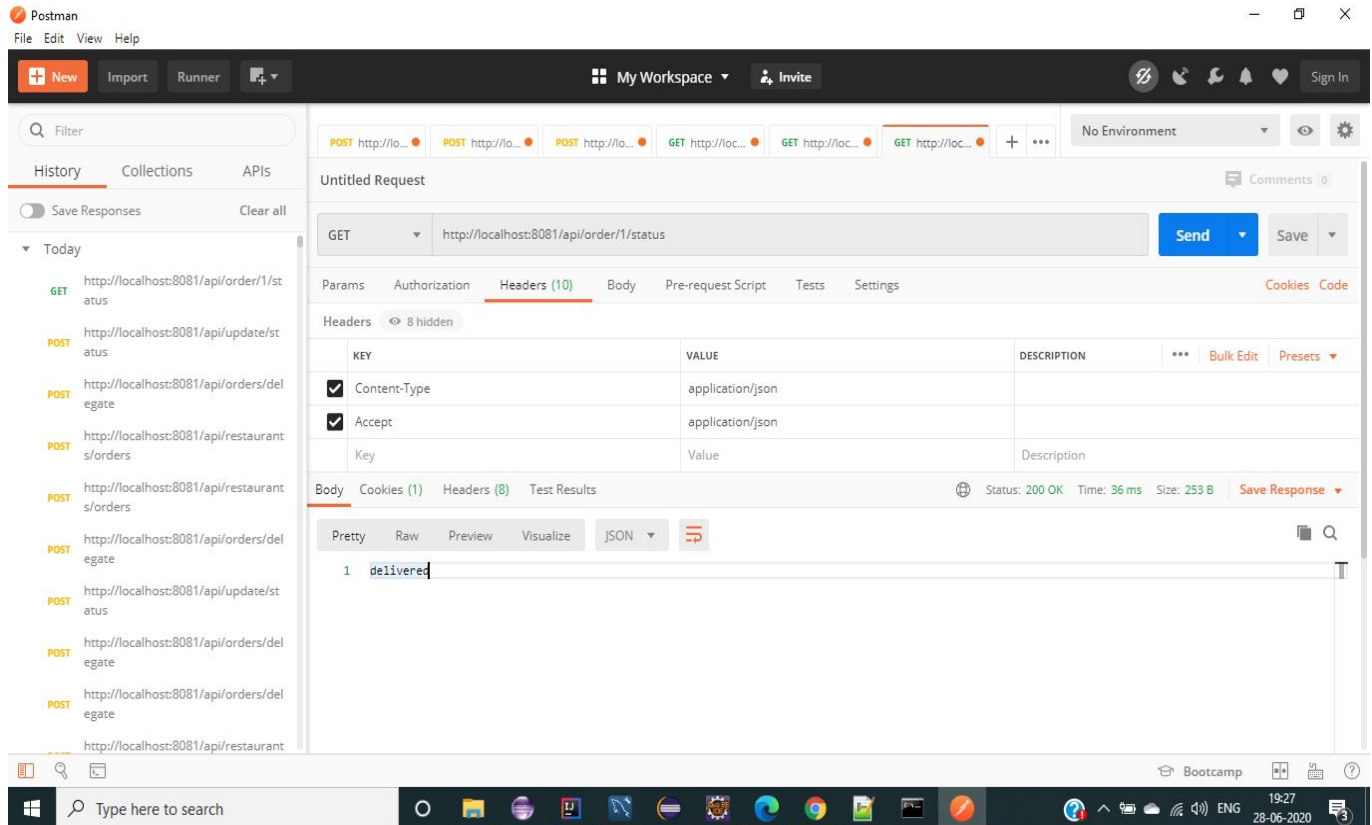
To get the order status

@param orderId

@return String → order status with respect to orderId

@throws OrderNotFoundException

Postman Result :



5. GET API to get list of active delivery person details

API URL : <http://localhost:8081/api/delivery/active/details>

Response :

```
[
  {
    "deliveryPersonId": 1,
    "contact": "9564425897",
    "personStatus": "active"
  },
  {
    "deliveryPersonId": 2,
    "contact": "876787837",
    "personStatus": "active"
  },
]
```

```
{
  "deliveryPersonId": 3,
  "contact": "9564425897",
  "personStatus": "active"
},
{
  "deliveryPersonId": 4,
  "contact": "7406674393",
  "personStatus": "active"
},
{
  "deliveryPersonId": 5,
  "contact": "956442556",
  "personStatus": "active"
}
]
```

API Description

To get the list of active delivery persons details.

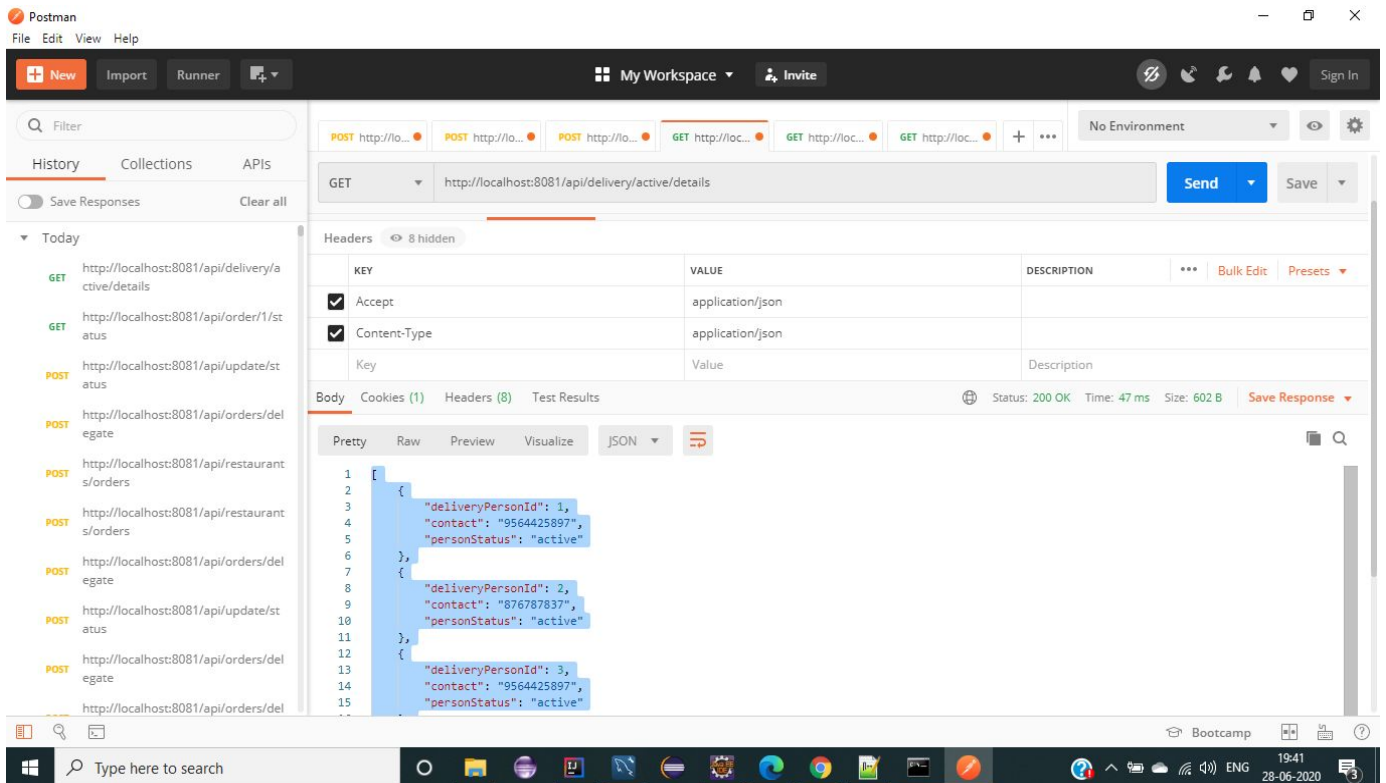
The status of delivery person can be active, inactive, engaged.

@param no parameter

@return List<DeliveryPersonDetails> → list active of delivery persons details.

@throws DeliveryManRetrievalException

Postman Result :



6. GET API to get the state of a delivery person.

The state of the delivery person can be active, inactive, engaged.

API URL : <http://localhost:8081/api/delivery/{deliveryPersonId}/state>

If deliveryPersonId = 5

Then, <http://localhost:8081/api/delivery/5/state>

Response :

```
{
  "deliveryPersonId": 5,
  "personStatus": "engaged",
  "orderTime": 1593346296423,
  "expectedDeliveryTime": 1593349896423,
  "orderId": 3,
  "timeLeftToDeliver": "00:52:06",
  "message": null
}
```

*The message field will be “**Delivery will take more than usual time**” if it exceeds expected delivery time otherwise null.

API Description :

- ⇒ To get the state of a delivery person.
 - ⇒ If the state of delivery person is active or inactive then simply return the id and status as active.
 - ⇒ If the state of delivery person is engaged then it will return orderID, he is delivering and the time left to deliver.
 - ⇒ If the expected delivery time is already over, then an user message will be displayed as **"Delivery will take more than usual time"**
- @param no parameter
@return List<DeliveryPersonDetails> → list active of delivery persons details.
@throws DeliveryManRetrievalException

Postman Result :

The screenshot shows the Postman interface with a GET request to `http://localhost:8081/api/delivery/5/state`. The request headers are set to `Accept: application/json` and `Content-Type: application/json`. The response status is `200 OK` with a time of `39 ms` and a size of `421 B`. The response body is a JSON object:

```
{
  "deliveryPersonId": 5,
  "personStatus": "engaged",
  "orderTime": 1593346296423,
  "expectedDeliveryTime": 1593349896423,
  "orderId": 3,
  "timeLeftToDeliver": "00:52:06",
  "message": null
}
```

The interface also shows a list of other API requests in the left sidebar, including GET requests for delivery details and POST requests for order management.

