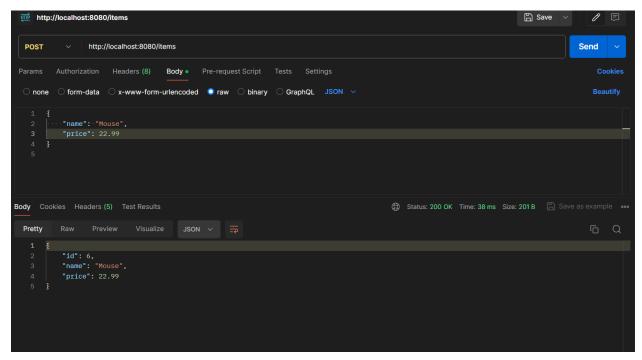
# CONSULTADD ASSIGNMENT SPRING BOOT APPLICATION

#### **API Documentation:**

1. Add a new item
URL: /items
HTTP Method: POST
Request Body:
{
 "name": "Mouse",
 "price": 22.99
}
Response:
{
 "id": 6,
 "name": "Mouse",
 "price": 22.99



### 2. Get all items

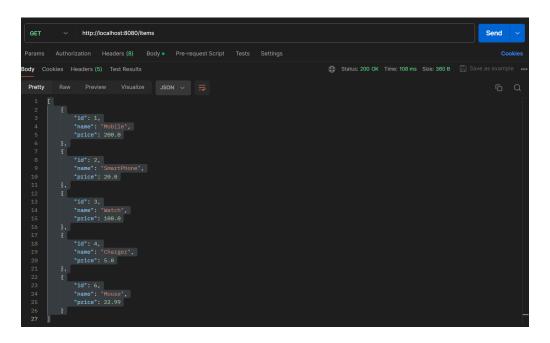
URL: /items

HTTP Method: GET Request Body: NA Response:

L

```
"id": 1,
  "name": "Mobile",
   "price": 200.0
},
   "id": 2,
   "name": "SmartPhone",
   "price": 20.0
},
{
   "id": 3,
  "name": "Watch",
   "price": 100.0
},
  "id": 4,
   "name": "Charger",
   "price": 5.0
},
{
   "id": 6,
   "name": "Mouse",
   "price": 22.99
```

]



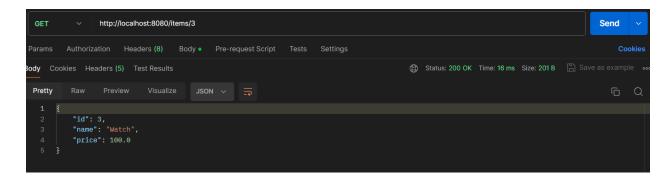
## 3. Get an item by ID

}

URL: /items/{id}
HTTP Method: GET
Request Body: NA we di

Request Body: NA, we give path variable id value as 1 or etc

Response:
{
 "id": 3,
 "name": "Watch",
 "price": 100.0



## 4. Delete an item by ID

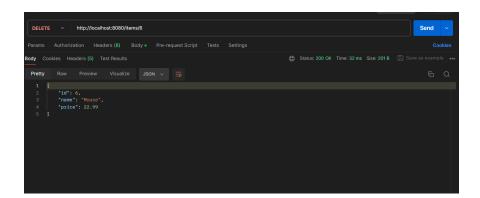
URL: /items/{id}

**HTTP Method**: DELETE

Request Body: NA, we give path variable id value as 1 or etc

Response:

```
{
    "id": 6,
    "name": "Mouse",
    "price": 22.99
}
```

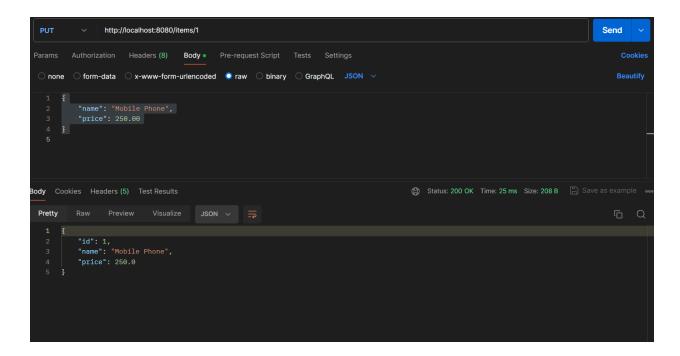


After deleting, the below updated list of items:

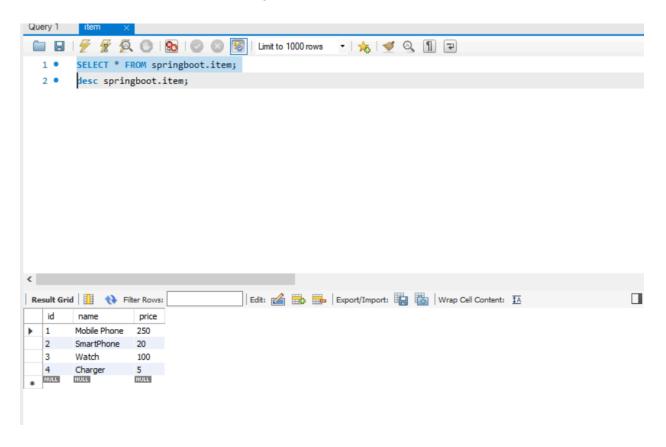
```
http://localhost:8080/items
                                                                                                                                                                                                Send
Body Cookies Headers (5) Test Results
                                                                                                                                 Status: 200 OK Time: 9 ms Size: 322 B Save as example
  Pretty
                     "id": 1,
"name": "Mobile",
"price": 200.0
                    "id": 2,
"name": "SmartPhone",
                    "id": 3,
"name": "Watch",
"price": 100.0
                    "id": 4,
"name": "Charger",
"price": 5.0
```

## 5. Update an item

```
URL: /items/{id}
HTTP Method: PUT
Request Body: We give path variable id value as 1 or etc
       {
         "name": "Mobile Phone",
         "price": 250.00
       }
Response:
       {
         "id": 1,
         "name": "Mobile Phone",
         "price": 250.0
       }
```



Final Database output after performing all CRUD operations:



## SetUp Instructions:

- a. Prerequisites:
  - Java version downloaded
  - Configure the MySQL server
  - IntelliJ or Eclipse
- b. Clone the git repository git clone <repo\_url>
- c. Dependencies used for this spring boot application:
  - Spring Web: used for RESTful web applications; Tomcat is the default server.
  - Spring Data JPA: Java Persistence API for persist data in SQL
  - Lombok: for getter, setter methods, constructor. This is used to reduce the boiler plate code.
  - MySQL Driver: connect with JDBC drive
- d. Update the application properties file with the SQL username, password and the database, which is used for creating tables and querying the data.
- e. Create a model class annotated with @Entity to define the fields of the database table and include annotations like @Id and @Column in the project.
- f. Create a repository interface extending JPARepository to handle database operations like save, findAll, etc.
- g. Create a service class with the @Service annotation that contains the logic of the application.
- h. Create a controller class with the @RestController that is responsible for handling the HTTP requests and map with the endpoints using @GetMapping, @PostMapping, etc.
- i. Finally, run the main method and test all the endpoints working fine for the URL given and parallley verify the database whether the endpoints data, which is the output, is updating the table or not.

### **Usage Examples:**

These are added in the API documentation section explaining the request and response received after performing the CRUD operations.