#### Project Setup and API Documentation

#### Maven Dependencies that were used.

```
<dependencies>
   <dependency>
       <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-data-jpa</artifactId>
   </dependency>
   <dependency>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
   </dependency>
   <dependency>
       <groupId>com.mysql</groupId>
       <artifactId>mysql-connector-j</artifactId>
       <scope>runtime</scope>
   </dependency>
   <dependency>
       <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-test</artifactId>
       <scope>test</scope>
   </dependency>
   <dependency>
       <groupId>org.projectlombok</groupId>
       <artifactId>lombok</artifactId>
       <version>1.18.36
       <scope>provided</scope>
    </dependency>
```

# MySQL Workbench started on localhost:3306

Created database with name inventory management

# Application.properites Configuration

```
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```

### Controller Class mappings

```
@RestController no usages
@RequestMapping("/items")
@Validated
public class ItemController {

    @Autowired 7 usages
    public ItemService itemService;

    @GetMapping("/getItems") no usages
    List<Item> getAtlItems(){
        return itemService.getallItems();
    }

    @GetMapping("/getItem/{id}") no usages
    public Optional<Item> getItemById(@PathVariable int id) {
        return itemService.getItembyID(id);
    }

    @PostMapping("/addItem") no usages
    public Item saveitem(@Valid @RequestBody Item item) {
        return itemService.saveItem(item);
    }

    @PutMapping("/updateItemQuantity") no usages
    public Item updateitem(@Valid @RequestBody Item item) {
        return itemService.updateItemQuantity(item);
    }
}
```

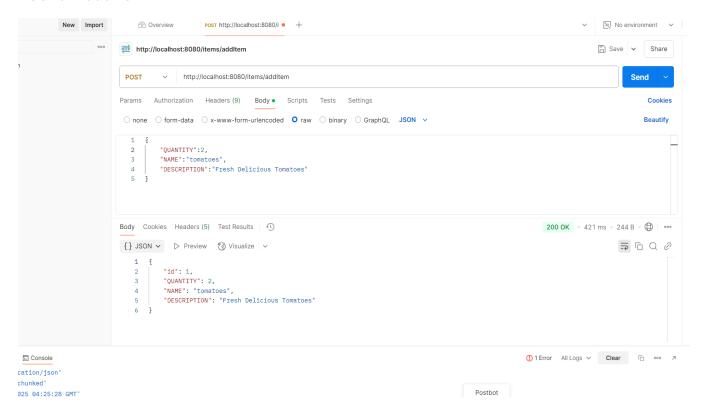
```
@PutMapping("/udateItemById/{id}") no usages
  public Item updatewholeItem(@PathVariable int id, @Valid @RequestBody Item item) {
     return itemService.updateItementity(id,item);
}

@DeleteMapping("/deleteById/{id}") no usages
  public void deleteItembyid(@PathVariable int id) {
     itemService.deleteItem(id);
}

@DeleteMapping("/deleteAllItems") no usages
  public void deleteallitems() {
     itemService.deleteAll();
}
```

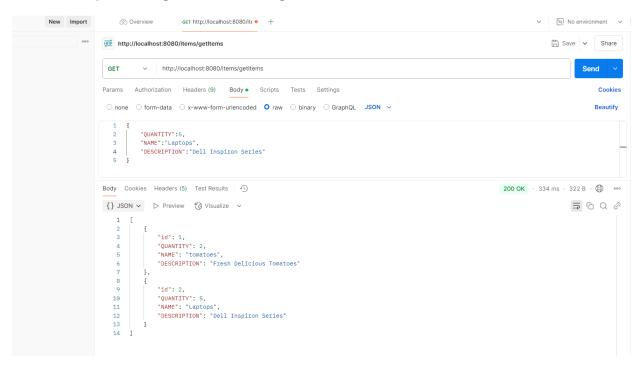
#### **API Endpoints**

#### POST url /additem

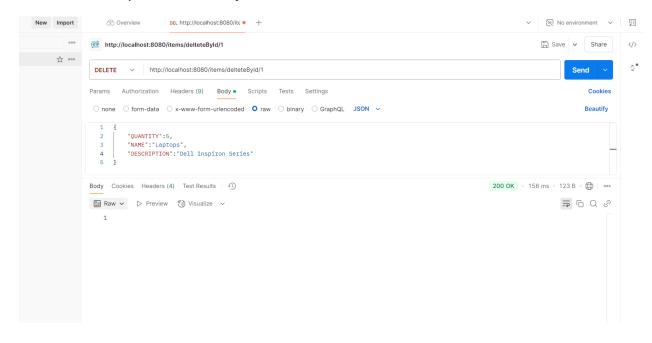


# Data Loaded in MYSQL From POST call

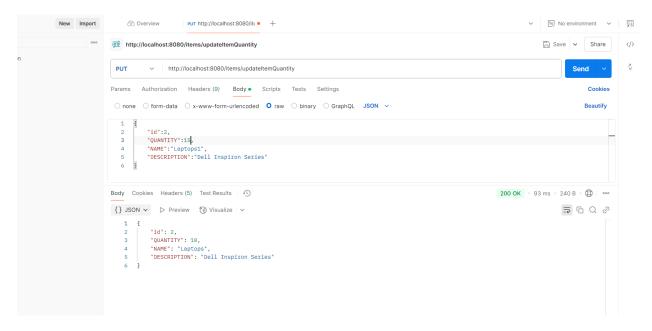
# GET API endpoint – to get all the items /getItems



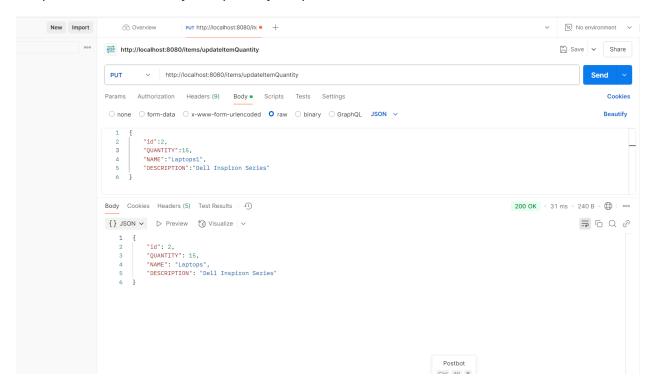
### DELETE API endpoint - Delete by ID



# PUT API endpoint - update only the Item Quantity here ... /updateItemQuantity

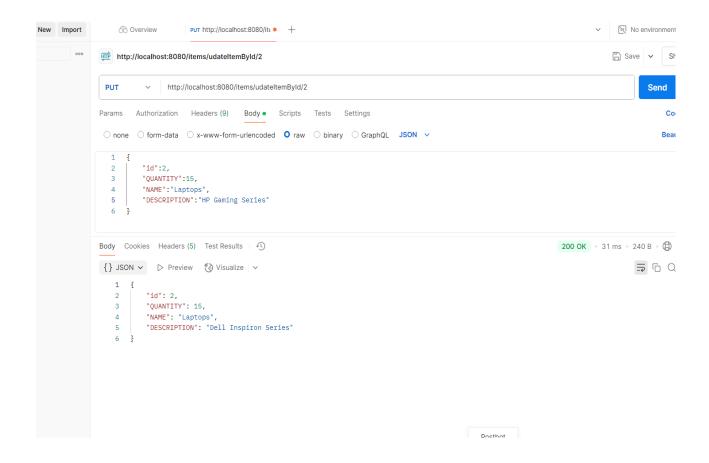


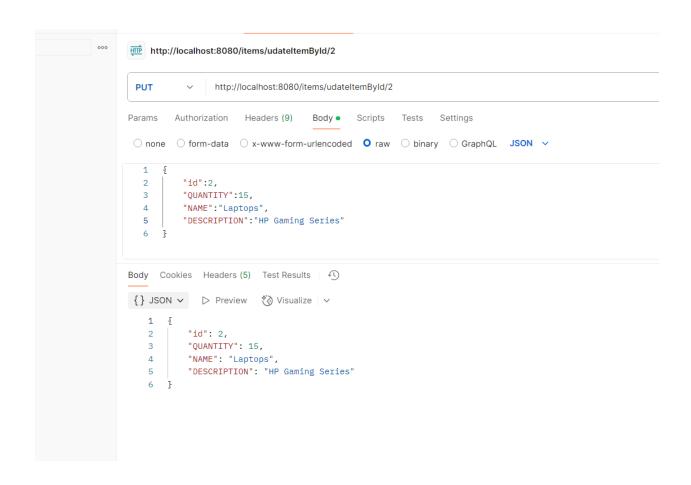
#### Response Returned, only the quantity Is updated



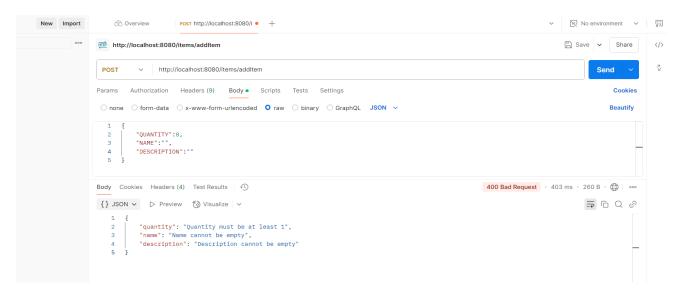
# MYSQL Update data

PUT mapping Update, update the entire Record or data - /updateItemById/{id}





# Validating the Errors for Empty POST request



#### Number of characters can be at most 50

