

Category Class

```
package com.restaurant.pojo;

import java.util.ArrayList;
import java.util.List;

import javax.persistence.CascadeType;
import javax.persistence.Column;
import javax.persistence.Entity;
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;
import javax.persistence.OneToOne;
import javax.persistence.OneToOneToMany;

import com.fasterxml.jackson.annotation.JsonIgnore;

@Entity

public class Category {
    @Id
    @GeneratedValue(strategy = GenerationType.IDENTITY)
    private Long categoryId;
    @Column(unique = true)
    private String name;
    @JsonIgnore
    @OneToOne(mappedBy = "category", cascade = CascadeType.ALL,
orphanRemoval = true)
    private List<FoodItem> foodItems = new ArrayList<>();
    public Long getCategoryId() {
        return categoryId;
    }
    public void setCategoryId(Long categoryId) {
        this.categoryId = categoryId;
    }
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
    public List<FoodItem> getFoodItems() {
        return foodItems;
    }
    public void setFoodItems(List<FoodItem> foodItems) {
        this.foodItems = foodItems;
    }
    @Override
    public String toString() {
        return "Category [categoryId=" + categoryId + ", name=" + name
+ ", foodItems=" + foodItems + "];"
    }
    public Category(Long categoryId, String name, List<FoodItem>
foodItems) {
        super();
        this.categoryId = categoryId;
        this.name = name;
        this.foodItems = foodItems;
    }
    public Category() {
        super();
    }
}
```

```
        // TODO Auto-generated constructor stub
    }
}
```

CategoryRepo

```
package com.restaurant.repo;

import org.springframework.data.jpa.repository.JpaRepository;
import com.restaurant.pojo.Category;

public interface CategoryRepo extends JpaRepository<Category, Long> {

    public Category findByName(String categoryName);

}
```

CategoryService

```
package com.restaurant.service;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;

import com.restaurant.pojo.Category;
import com.restaurant.repo.CartRepo;
import com.restaurant.repo.CategoryRepo;
import com.restaurant.repo.FoodItemRepo;

@Service

public class CategoryService {

    @Autowired
```

```

FoodItemRepo foodItemRepo;

@Autowired

CategoryRepo categoryRepo;

@Autowired

CartRepo cartRepo;

public List<Category> getCategories() {

    return categoryRepo.findAll();

}

public Category getCategoryByName(String categoryName) {

    return categoryRepo.findByName(categoryName);

}

public void addCategory(Category category) {

    categoryRepo.save(category);

}

public void deleteCategoryById(Long categoryId) {

    categoryRepo.deleteById(categoryId);

}

public Category getCategoryById(Long categoryId) {

    return categoryRepo.findById(categoryId).orElse(null);

}

}

```

CategoryController

```
package com.restaurant.controller;
```

```
import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RestController;

import com.restaurant.pojo.Category;
import com.restaurant.service.AdminService;
import com.restaurant.service.CartService;
import com.restaurant.service.CategoryService;
import com.restaurant.service.FoodItemService;

@RestController
@CrossOrigin(origins = "*")
@RequestMapping("/category")
public class CategoryController {

    @Autowired
    CartService cartService;

    @Autowired
    AdminService adminService;

    @Autowired
    CategoryService categoryService;

    @Autowired
```

```

FoodItemService foodItemService;

@PostMapping("/add/{categoryName}")

public String addCategory(@PathVariable String categoryName) {

    Category
testCategory=categoryService.getCategoryByName(categoryName);

    if(testCategory!=null)

        return "0";

    else {

        Category category=new Category();

        category.setName(categoryName);

        categoryService.addCategory(category);

        return "1";

    }

}

@GetMapping("")

public List<Category> getCategories(){

    return categoryService.getCategories();

}

@GetMapping("/{categoryId}")

public Category getCategoryById(@PathVariable Long categoryId){

    return categoryService.getCategoryById(categoryId);

}

@DeleteMapping("/delete/{categoryId}")

public String deleteCategory(@PathVariable Long categoryId) {

```

```
        cartService.deleteFromCartByFoodItems(foodItemService.getFoodItemsByC
ategoryId(categoryId) );

        categoryService.deleteCategoryById(categoryId);

        return "done";

    }

}
```