```
package rest;
import java.util.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.HttpStatus;
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.PutMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.RestController;
import org.springframework.web.server.ResponseStatusException;
import io.swagger.v3.oas.annotations.Operation;
import io.swagger.v3.oas.annotations.Parameter;
import io.swagger.v3.oas.annotations.media.Schema;
import io.swagger.v3.oas.annotations.responses.ApiResponse;
import io.swagger.v3.oas.annotations.responses.ApiResponses;
@RestController
public class CategoryController {
    @Autowired
    private CatsRepo categoryRepo;
    @GetMapping("/categories")
    @Operation(summary = "Get all categories")
public List<Category> getAll() {
         return categoryRepo.findAll();
    @GetMapping("/categories/{code}")
    @Operation(summary = "Get category by code",
description = "Given a category code it retrieves details of category")
    @ApiResponses(value =
    return cat.get();
         else
             throw new ResponseStatusException(HttpStatus.NOT_FOUND, "Category Code Not Found");
    }
    @GetMapping("/categoriesByDesc")
    public List<Category> getCategoryByDesc(@RequestParam(name = "desc", defaultValue = "") String desc) {
         return categoryRepo.findByDescriptionContaining(desc);
    @DeleteMapping("/categories/{code}")
public void deleteCategoryByCode(@PathVariable("code") String code) {
         var cat = categoryRepo.findById(code);
         if (cat.isPresent())
             categoryRepo.deleteById(code);
             throw new ResponseStatusException(HttpStatus.NOT_FOUND, "Category Code Not Found");
    }
    @PutMapping("/categories/{code}")
    var cat = categoryRepo.findById(code);
         if (cat.isPresent()) {
   var category = cat.get();
   category.setDescription(desc);
             categoryRepo.save(category);
             return category;
         } else
             throw new ResponseStatusException(HttpStatus.NOT_FOUND, "Category Code Not Found");
    }
    @PostMapping("/categories")
    public Category addCategory(
             @Parameter(description = "Details of a new category", schema = @Schema(implementation = Category.class)) @RequestBody Category category) {
             categoryRepo.save(category);
        return category;
} catch (Exception ex) {
             throw new ResponseStatusException(HttpStatus.BAD_REQUEST, "Invalid data!");
    }
}
```

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