package com.example.bookstoreapi.model;

import lombok.AllArgsConstructor;

import lombok.Data;

import lombok.NoArgsConstructor;

@Data

@NoArgsConstructor

@AllArgsConstructor

public class Customer {

private Long id;

private String name;

private String email;

private String address;

}

package com.example.bookstoreapi.service;

import com.example.bookstoreapi.model.Customer;

import org.springframework.stereotype.Service;

import java.util.ArrayList;

import java.util.List;

import java.util.Optional;

@Service

public class CustomerService {

private final List<Customer> customers = new ArrayList<>();

public List<Customer> getAllCustomers() {

return customers;

}

public Optional<Customer> getCustomerById(Long id) {

return customers.stream().filter(customer -> customer.getId().equals(id)).findFirst();

}

public Customer addCustomer(Customer customer) {

customers.add(customer);

return customer;

}

public Customer updateCustomer(Customer customer) {

deleteCustomer(customer.getId());

customers.add(customer);

return customer;

}

public void deleteCustomer(Long id) {

customers.removeIf(customer -> customer.getId().equals(id));

}

}

package com.example.bookstoreapi.controller;

import com.example.bookstoreapi.model.Customer;

import com.example.bookstoreapi.service.CustomerService;

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

import org.springframework.http.HttpStatus;

import org.springframework.http.ResponseEntity;

import org.springframework.web.bind.annotation.\*;

@RestController

@RequestMapping("/customers")

public class CustomerController {

@Autowired

private CustomerService customerService;

@PostMapping

public ResponseEntity<Customer> addCustomer(@RequestBody Customer customer) {

Customer savedCustomer = customerService.addCustomer(customer);

return new ResponseEntity<>(savedCustomer, HttpStatus.CREATED);

}

// Additional endpoints can be added here

}

import org.springframework.web.bind.annotation.PostMapping;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestParam;

import org.springframework.web.bind.annotation.RestController;

@RestController

@RequestMapping("/customers")

public class CustomerController {

@Autowired

private CustomerService customerService;

@PostMapping

public ResponseEntity<Customer> addCustomer(@RequestBody Customer customer) {

Customer savedCustomer = customerService.addCustomer(customer);

return new ResponseEntity<>(savedCustomer, HttpStatus.CREATED);

}

@PostMapping("/register")

public ResponseEntity<Customer> registerCustomer(@RequestParam String name,

@RequestParam String email,

@RequestParam String address) {

Customer customer = new Customer(null, name, email, address);

Customer savedCustomer = customerService.addCustomer(customer);

return new ResponseEntity<>(savedCustomer, HttpStatus.CREATED);

}

}

POST http://localhost:8080/customers

Body (JSON):

{

"id": 1,

"name": "John Doe",

"email": "john.doe@example.com",

"address": "123 Main St"

}

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@RequestParam String address) {

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Customer savedCustomer = customerService.addCustomer(customer);

return new ResponseEntity<>(savedCustomer, HttpStatus.CREATED);

}

}