**WarehouseController.java:**

package com.sportyshoes.basepackage.controller;

import java.util.ArrayList;

import java.util.List;

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

import org.springframework.http.ResponseEntity;

import org.springframework.stereotype.Controller;

import org.springframework.ui.Model;

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

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

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

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

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

import org.springframework.web.servlet.ModelAndView;

import com.sportyshoes.basepackage.model.ShoeData;

import com.sportyshoes.basepackage.resource.RestfulResource;

import com.sportyshoes.basepackage.service.ShoeService;

@Controller

//@RequestMapping(path = "/entry.html")

public class WareHouseController {

@Autowired

private RestfulResource resource;

@RequestMapping(path="/entry.html", method=RequestMethod.GET)

public ModelAndView returnBack() {

ModelAndView modelAndView = new ModelAndView();

modelAndView.addObject("shoelist", "Back again");

return modelAndView;

}

@RequestMapping(path = "/entry.html", method = RequestMethod.POST)

public ModelAndView dataEntry() {

ModelAndView modelAndView = new ModelAndView();

// List<ShoeData> shoelist = resource.getAllShoes();

// modelAndView.setViewName("entry");

modelAndView.addObject("shoelist", "hello there");

return modelAndView;

}

@RequestMapping(value="/getallitem", method=RequestMethod.GET)

// Model is used for adding attributes to the model

// it is used to transfer data between the view and controller of Spring MVC application

// it acts as a data container that contains the data of the application

// the stored data can be of any form such as String, Object, data from Database etc.

public String getAllItem(Model model) {

List<ShoeData> totalShoes = resource.getAllShoes();

model.addAttribute("totalShoes", totalShoes);

// List<ShoeData> totalShoes = new ArrayList<ShoeData>();

// ShoeData data = (ShoeData) resource.getAllShoes();

// totalShoes.add(data);

// System.out.println(totalShoes);

return "warehouse";

}

@RequestMapping(value="/additem", method=RequestMethod.POST)

public String insertItem(Model model, @RequestParam(value = "shoeName") String shoename, ShoeData data) {

// ShoeData data = new ShoeData();

// ShoeData data = (ShoeData) model.getAttribute("additem");

// String shoeName = data.getShoeName();

// System.out.println(shoename);

// System.out.println(data);

// ResponseEntity<ShoeData> insertAShoe = resource.createShoe(shoename, data);

// ShoeData responseBody = insertAShoe.getBody();

// System.out.println(responseBody);

// ModelAndView mav = new ModelAndView();

// data = resource.createShoe(shoename, data);

// mav.setViewName("warehouse");

// mav.addObject("totalshoes", data);

data = resource.createShoe(shoename, data);

// the data is a class, so we have to convert it into List for the JSTL to iterate

List<ShoeData> convertedData = new ArrayList<ShoeData>();

convertedData.add(data);

// System.out.println(data.getClass());

model.addAttribute("totalShoes", convertedData);

return "warehouse";

}

@RequestMapping(value = "deletebyid", method=RequestMethod.POST)

public String deleteById( Long id) {

ResponseEntity data = resource.delete(id);

return "entry";

}

@RequestMapping(value = "showbyid", method=RequestMethod.GET)

public String showById(Model model, int id) {

ShoeData getId = resource.getShoeById(id);

List<ShoeData> convertedData = new ArrayList<ShoeData>();

convertedData.add(getId);

model.addAttribute("totalShoes", convertedData);

return "warehouse";

}

}

**RestfulController.java:**

package com.sportyshoes.basepackage.resource;

import java.net.URI;

import java.util.List;

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

import org.springframework.http.ResponseEntity;

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.RequestBody;

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

import org.springframework.web.servlet.support.ServletUriComponentsBuilder;

import com.sportyshoes.basepackage.model.ShoeData;

import com.sportyshoes.basepackage.service.ShoeService;

import jakarta.validation.Valid;

@RestController

public class RestfulResource {

@Autowired

private ShoeService shoeService;

@GetMapping(path = "/{shoename}/shoelist")

public List<ShoeData> getAllShoes(){

System.out.println("shoes from Restful resource");

return shoeService.findAll();

}

@GetMapping(path = "/shoelist/{id}")

public ShoeData getShoeById(@PathVariable int id) {

ShoeData shoeData = shoeService.findById(id);

return shoeData;

}

// @PostMapping(path = "/{shoename}/shoelist")

// public ResponseEntity createShoe(@PathVariable String shoename, @Valid @RequestBody ShoeData data) {

// ShoeData saveData = shoeService.insertData(data);

// URI location = ServletUriComponentsBuilder.fromCurrentRequest().path("/{id}")

// .buildAndExpand(saveData.getId()).toUri();

// // created would send 201

// return ResponseEntity.created(location).build();

// }

@PostMapping(path = "/{shoename}/shoelist")

public ShoeData createShoe(@PathVariable String shoename, @Valid @RequestBody ShoeData data) {

ShoeData saveData = shoeService.insertData(data);

return saveData;

}

@DeleteMapping(path = "/shoelist/{id}")

public ResponseEntity delete(@PathVariable Long id) {

ShoeData data = shoeService.deleteById(id);

if(data != null) {

// noContent means it would return 204 status code

return ResponseEntity.noContent().build();

}

return ResponseEntity.notFound().build();

}

}