package com.example.UserManager.controller;

import org.springframework.boot.web.servlet.error.ErrorController;

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

public class AppErrorController implements ErrorController {

@RequestMapping("/error")

public String handleError() {

//do something like logging

return "error";

}

@Override

public String getErrorPath() {

return null;

}

}

Main

package com.example.UserManager.controller;

import org.springframework.stereotype.Controller;

import org.springframework.ui.ModelMap;

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

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

@Controller

public class MainController {

@GetMapping(value = "/")

public String showIndexPage(ModelMap model,

@RequestParam(value = "name", required = false, defaultValue = "World") String name) {

model.addAttribute("name", name);

return "index";

}

}

User Cotroler

package com.example.UserManager.controller;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

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

import org.springframework.stereotype.Controller;

import org.springframework.ui.ModelMap;

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

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

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

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

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

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

import com.example.UserManager.entities.User;

import com.example.UserManager.services.UserService;

@Controller

public class UserController {

//controls the functionality of the user entity

@Autowired

private UserService userService;

Logger logger = LoggerFactory.getLogger(UserController.class);

@GetMapping("/users")

public String showUsers(ModelMap model) {

logger.info("Getting all users");

Iterable<User> users = userService.GetAllUsers();

logger.info("Passing users to view");

model.addAttribute("users", users );

return "users";

}

@RequestMapping(value ="/search/{id}", method = RequestMethod.POST)

public String searchUser(ModelMap model, @RequestParam("id") int id) {

logger.info("Searching for a user");

User user = userService.GetUserById(id);

logger.info("Passing Searched User to View");

model.addAttribute("userSearch", user);

return "search";

}

@PostMapping("search/update")

public String updateUser(ModelMap model, @ModelAttribute("update") User user) {

logger.info("Updating a User");

userService.UpdateUser(user);

model.addAttribute("updatedUser", user);

return "update";

}

}

package com.example.UserManager.controller;

import org.springframework.http.HttpStatus;

import org.springframework.http.ResponseEntity;

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

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

import com.example.UserManager.exceptions.UserNotFoundException;

@ControllerAdvice

public class UserExceptionController {

@ExceptionHandler(value=UserNotFoundException.class)

public ResponseEntity<Object> exception(UserNotFoundException ex) {

return new ResponseEntity<>("Product not found", HttpStatus.NOT\_FOUND);

}

}

Enteties

package com.example.UserManager.entities;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

@Entity

public class User { //The Entity of a User; What it is.

@Id

@GeneratedValue(strategy=GenerationType.AUTO)

private Integer id;

private String name;

private String email;

private String password;

public User() {

super();

}

public User(Integer id, String name, String email, String password) {

super();

this.id = id;

this.name = name;

this.email = email;

this.password = password;

}

public Integer getId() {

return id;

}

public void setId(Integer id) {

this.id = id;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

@Override

public String toString() {

return (id.toString() + " " + name + " " + email + " " + password);

}

}

User Manager

package com.example.UserManager;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class UserManagerApplication {

public static void main(String[] args) {

SpringApplication.run(UserManagerApplication.class, args);

}

}

jdBc

spring.jpa.hibernate.ddl-auto=update

spring.datasource.url=jdbc:mysql://localhost:3306/feedback

spring.datasource.username=root

spring.datasource.password=

server.port=8080

logging.level.org.springframework.web:DEBUG

spring.mvc.view.prefix=/WEB-INF/jsp/

spring.mvc.view.suffix=.jsp

server.port=8080

pom

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<project xmlns=*"http://maven.apache.org/POM/4.0.0"*

xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"*

xsi:schemaLocation=*"http://maven.apache.org/POM/4.0.0* [*https://maven.apache.org/xsd/maven-4.0.0.xsd*](https://maven.apache.org/xsd/maven-4.0.0.xsd)*"*>

<modelVersion>4.0.0</modelVersion>

<parent>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-parent</artifactId>

<version>2.4.3</version>

<relativePath /> <!-- lookup parent from repository -->

</parent>

<groupId>com.example</groupId>

<artifactId>UserManager</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>UserManager</name>

<description>Searching for a Specific User and Updating the User Information.</description>

<properties>

<java.version>1.8</java.version>

</properties>

<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>

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<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

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</dependency>

<dependency>

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<artifactId>lombok</artifactId>

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</dependency>

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<artifactId>spring-boot-starter-test</artifactId>

<scope>test</scope>

</dependency>

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<groupId>javax.servlet</groupId>

<artifactId>jstl</artifactId>

<version>1.2</version>

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<dependency>

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<artifactId>tomcat-embed-jasper</artifactId>

<scope>provided</scope>

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<groupId>javax.xml.bind</groupId>

<artifactId>jaxb-api</artifactId>

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<groupId>org.javassist</groupId>

<artifactId>javassist</artifactId>

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<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-devtools</artifactId>

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</dependency>

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<artifactId>spring-boot-maven-plugin</artifactId>

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<groupId>org.projectlombok</groupId>

<artifactId>lombok</artifactId>

</exclude>

</excludes>

</configuration>

</plugin>

</plugins>

</build>

</project>