

**HANDLING USER AUTHENTICATION**

PROJECT SOURCE CODE

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# LoginController.java



package com.example.Authentication.controllers;

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.PostMapping; import org.springframework.web.bind.annotation.RequestParam; import org.springframework.web.bind.annotation.ResponseBody; import org.springframework.web.bind.annotation.RestController;

import com.example.Authentication.entities.User;

import com.example.Authentication.repositories.UserRepository;

@RestController

public class LoginController {



@Autowired

UserRepository userRepository;

@GetMapping(value="/")

public String showIndexPage(ModelMap model){ return "<html>\n"

+ "<head>\n"

+ " <style>\n"

+ " .center {\n"

+ " text-align: center;\n"

+ " }\n"

+ " \n"

+ " </style>\n"

+ "</head>\n"

+ "<body style=\"background-color:lightblue;\">\n"

+ " <div class=\"center\">\n"

+ " <h1>User Login Page</h1>\n"

+ " \n"

+ " <h2 class=\"hello-title\">Welcome</h2>\n"

+ " \n"

+ " <a href=\"/allusers\">View all users</a>\n"



+ " <br><br>\n"

+ " <form method=\"get\" action=\"login\">\n"

+ " <br><h3>Login below:</h3>\n"

+ " <input type=\"text\" id=\"name\" name=\"name\" placeholder=\"Name\" required>\n"

+ " <input type=\"text\" id=\"email\" name=\"email\" placeholder=\"Email\" required>\n"

+ " <input type=\"text\" id=\"password\" name=\"password\" placeholder=\"Password\" required> \n"

+ " <input type=\"submit\"

value=\"Enter\" />\n"

+ " </form>"

+ " </div>\n"

+ "</body>\n"

+ "</html>";

}

@GetMapping("/login")

public String showLogin(@RequestParam("name") String name, @RequestParam("email") String email, @RequestParam("password") String password, ModelMap map) {

User u = new User(name,email,password);

userRepository.save(u);



return "<html>\n"

+ "<head>\n"

+ " <style>\n"

+ " .center {\n"

+ " text-align: center;\n"

+ " }\n"

+ " \n"

+ " </style>\n"

+ "</head>\n"

+ "<body style=\"background-color:lightblue;\">\n"

+ " <div class=\"center\">\n"

+ " <h1>Logged In</h1>\n"

+ " \n"

+ " <h2 class=\"hello-title\">Successfully Added Your Information</h2>\n"

+ " </div>\n"

+ "</body>\n"

+ "</html>";

}

@GetMapping("/allusers")



public @ResponseBody String getAllFeedbacks() {

// This returns a JSON or XML with the Feedbacks Iterable<User> allUser = userRepository.findAll();

return "<html>\n"

+ "<head>\n"

+ " <style>\n"

+ " .center {\n"

+ " text-align: center;\n"

+ " }\n"

+ " \n"

+ " </style>\n"

+ "</head>\n"

+ "<body style=\"background-color:lightblue;\">\n"

+ " <div class=\"center\">\n"

+ "<h1>Feedback Table</h1>\n"

+ allUser.toString()

+ " </div>\n"

+ "</body>\n"

+ "</html>";

}

@PostMapping("/login")



public String submitLogin(@RequestParam String username, @RequestParam String password){

//TODO:

return "Success";

}

}

# User.java

package com.example.Authentication.entities;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue; import javax.persistence.GenerationType; import javax.persistence.Id;

@Entity // This tells Hibernate to make a table out of this class

public class User { @Id



@GeneratedValue(strategy=GenerationType.IDENTITY) private Integer id;

private String name;

private String email;

private String password;

public User()

{

}

public User(String name, String email, String password) { this.name = name;

this.email = email; this.password = password;

}

public String getPassword() { return password;



}

public void setPassword(String password) { 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;

}

@Override

public String toString() {

return "<br><h3>" + name + " [" + id + "]:" + "</h3><h4>email: " + email + "</h4><h4>password: " + password + "</h4><br>";

}

}

## UserNotFoundException.java

package com.example.Authentication.exceptions;

public class UserNotFoundException extends RuntimeException { private static final long serialVersionUID = 1L;



}

## UserRepository.java

package com.example.Authentication.repositories;

import org.springframework.data.repository.CrudRepository;

import com.example.Authentication.entities.User;

public interface UserRepository extends CrudRepository<User, Integer> {

public User findByName(String name);

}

## UserService.java

package com.example.Authentication.services;

import java.util.Optional;

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



import com.example.Authentication.entities.User;

import com.example.Authentication.exceptions.UserNotFoundException; import com.example.Authentication.repositories.UserRepository;

@Service

public class UserService {

@Autowired

private UserRepository userRepository;

public Iterable<User> GetAllUsers()

{

return userRepository.findAll();

}



public User GetUserByName(String name) {

User foundUser = userRepository.findByName(name); return foundUser;

}

public User GetUserById(int id) {

Optional<User> foundUser = userRepository.findById(id);

//TODO: we need to decide how to handle a "Not Found" condition

if (!foundUser.isPresent()) {

throw new UserNotFoundException();

}

return(foundUser.get());

}

public void UpdateUser(User usertoUpdate) { userRepository.save(usertoUpdate);

}



}

## AuthenticationApplication.java

package com.example.Authentication;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class AuthenticationApplication {

public static void main(String[] args) { SpringApplication.run(AuthenticationApplication.class, args);

}

}

## Application.properties



spring.jpa.hibernate.ddl-auto=update spring.datasource.url=jdbc:mysql://${MYSQL\_HOST:localhost}:3306/phase2 spring.datasource.username=root

spring.datasource.password=root

logging.level.org.springframework.web: DEBUG

server.port=8090

server.error.whitelabel.enabled=false

## Error.jsp

<html>

<body>

<h2>Page not found</h2>

</body>

</html>



## Greeting.java

<html>

<body>

<h2>Spring Application</h2>

</body>

</html>

==============================X================================