

## UserManagerApplication

```
package com.example.SpringSecurityManager;

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);

        System.out.println("started...");

    }
}
```

## AppErrorController

```
package com.example.SpringSecurityManager.controllers;

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;

    }

}
```

## MainController

```
package com.example.SpringSecurityManager.controllers;

import java.util.ArrayList;

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.PathVariable;

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 org.springframework.web.bind.annotation.ResponseBody;

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

import

org.springframework.web.servlet.mvc.support.RedirectAttributes;


import com.example.SpringSecurityManager.entities.User;

import com.example.SpringSecurityManager.services.UserService;

@Controller

public class MainController {

    @Autowired

    private UserService userService;

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

    String currID = null;

    @GetMapping(value="/")
```

```

        public String showHomePage(ModelMap model,
                                   @RequestParam(value="name", required=false,
defaultValue="World") String name){
            model.addAttribute("name", name);
            return "home";
        }
    @PostMapping(value="/index")
    public String showIndexPage(@RequestParam("namellogin") String
namellogin, @RequestParam("passwordlogin") String passwordlogin,
ModelMap modelMap)
    {
        try {
            User u = userService.GetUserByName(namellogin);
            if(u.getName().equals(namellogin) &&
u.getPassword().equals(passwordlogin))
            {
                return "index";
            }
            else
            {
                return "home";
            }
        }
        catch(NullPointerException e) {
            return "home";
        }
    }
}

```

```

public boolean isNumber(String s)
{
    if(s == null)
        return false;

    try
    {
        double db = Double.parseDouble(s);
    }
    catch(NumberFormatException e)
    {
        return false;
    }
    return true;
}

```

```

@PostMapping("/update")
public String saveDetails(@RequestParam("id") String id, ModelMap
modelMap) {

    try
    {
        User user =
userService.GetUserById(Integer.valueOf(id));

        ArrayList<User> userList = new ArrayList<>();
        if(user != null)
        {
            userList.add(user);
            Iterable<User> users = userList;

```

```

        currID = id;

        modelMap.put("user", users);
    }
    else
        return "nouser";
}
catch (NumberFormatException e)
{
    // TODO Auto-generated catch block
    return "nouser";
}
catch (Exception e)
{
    // TODO Auto-generated catch block
    e.printStackTrace();
}

    modelMap.put("ID", id);
    return "update";
}

@PostMapping("/update2")
public String updateDetails(@RequestParam("nameedit") String
nameedit, @RequestParam("emailedit") String emailedit,
@RequestParam("passwordedit") String passwordedit, ModelMap
modelMap) {
    ArrayList<User> userList = new ArrayList<>();
    try

```

```
        {  
            User u =  
userService.GetUserById(Integer.valueOf(currID));  
            userService.setUser(u, nameedit, emailedit,  
passwordedit);  
            userList.add(u);  
            Iterable<User> users = userList;  
            modelMap.put("user", users);  
        }  
        catch (NumberFormatException e)  
        {  
            e.printStackTrace();  
        }  
        catch(Exception e)  
        {  
            e.printStackTrace();  
        }  
        modelMap.put("IDedit", currID);  
  
        return "update2";  
    }  
}
```

## UserController

```
package com.example.SpringSecurityManager.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.PathVariable;
import org.springframework.web.bind.annotation.ResponseBody;
import com.example.SpringSecurityManager.entities.User;
import com.example.SpringSecurityManager.services.UserService;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

@Controller
public class UserController {

    @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";
    }
}
```

## UserExceptionHandler

```
package com.example.SpringSecurityManager.controllers;

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.SpringSecurityManager.exceptions.UserNotFoundException;

@ControllerAdvice

public class UserExceptionHandler {

    @ExceptionHandler(value = UserNotFoundException.class)

    public ResponseEntity<Object> exception(UserNotFoundException
exception) {

        return new ResponseEntity<>("User not found",
HttpStatus.NOT_FOUND);

    }

}
```

## USER

```
package com.example.SpringSecurityManager.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.AUTO)  
    private Integer id;  
  
    private String name;  
  
    private String email;  
  
    private String 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 (id.toString() + " " + name + " " + email + " " + password);
    }
}

```

## UserNotFoundException

```

package com.example.SpringSecurityManager.exceptions;

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

```

## UserRepository

```
package com.example.SpringSecurityManager.repositories;

import org.springframework.data.repository.CrudRepository;

import com.example.SpringSecurityManager.entities.User;

public interface UserRepository extends CrudRepository<User, Integer>

{

    public User findByName(String name);

}
```

## UserService

```
package com.example.SpringSecurityManager.services;

import java.util.Optional;

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

import org.springframework.stereotype.Service;

import com.example.SpringSecurityManager.entities.User;

import

com.example.SpringSecurityManager.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) throws Exception {
    Optional<User> foundUser = userRepository.findById(id);

    //TODO: we need to decide how to handle a "Not Found"
condition
    if(!foundUser.isPresent())
        return null;

    return(foundUser.get());
}

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

public void setUser(User u, String name, String email, String
password) {
    //u.setId(id);
    u.setName(name);
    u.setEmail(email);
    u.setPassword(password);
    UpdateUser(u);
}}

```

## Properties

```
spring.jpa.hibernate.ddl-auto=update  
spring.datasource.url=jdbc:mysql://${MYSQL_HOST:localhost}:3306/mphdb  
spring.datasource.username=root  
spring.datasource.password=18W91A0477
```

```
logging.level.org.springframework.web: DEBUG  
spring.mvc.view.prefix=/WEB-INF/jsp/  
spring.mvc.view.suffix=.jsp  
server.port=8081
```



error.jsp



home.jsp



index.jsp



nouser.jsp



update.jsp



update2.jsp



users.jsp