Task Manager Codes

Java:

```
MyUserDetailsService.java 🗶 🚺 TaskManagerService.java
                                                                 TaskManagerServiceImpl.java
  package com.hcl.taskManagerProject.service;
  30 import org.springframework.beans.factory.annotation.Autowired;
 22 public class MyUserDetailsService implements UserDetailsService {
          private TaskManagerServiceImpl userService;
 279
          public UserDetails loadUserByUsername(String userName) throws UsernameNotFoundException {
    Optional<UserEntity> user = userService.findByUserName(userName);
29
               UserEntity newuser = user.get();
               List<GrantedAuthority> authorities = getUserAuthority(newuser.getRoles());
               return buildUserForAuthentication(newuser, authorities);
          private List<GrantedAuthority> getUserAuthority(Set<Role> userRoles) {
    Set<GrantedAuthority> roles = new HashSet<GrantedAuthority>();
 360
               for (Role role : userRoles) {
                    roles.add(new SimpleGrantedAuthority(role.getRole()));
               List<GrantedAuthority> grantedAuthorities = new ArrayList<>(roles);
               return grantedAuthorities;
          private UserDetails buildUserForAuthentication(UserEntity user, List<GrantedAuthority> authorities) {
    return new org.springframework.security.core.userdetails.User(user.getUserName(), user.getPassword(),
 450
                        user.getActive(), true, true, true, authorities);
```

```
🗾 RoleRepository.java 🗶 🗾 TaskRepository.java
                                                    UserRepository.java
                                                                              MyUserDetailsSe
   package com.hcl.taskManagerProject.repository;
   30 import org.springframework.data.jpa.repository.JpaRepository;
  8 @Repository
  9 public interface RoleRepository extends JpaRepository<Role, Integer> (
          Role findByRole(String role);
 11 }
SaveExceptionController.java X 1 TaskManagerController.java

☑ Role.java

                                                                         J TaskEntity.java
                                                                                            UserEntity.j.
    backage com.hcl.taskManagerProject.controller;
  30 import org.springframework.http.HttpStatus;
 10 @ControllerAdvice
        @ExceptionHandler(value = SaveFailedException.class)
 120
           public ResponseEntity<Object> exception(SaveFailedException exception) {
    return new ResponseEntity<>("Product not found", HttpStatus.METHOD_FAILURE);
14
SaveFailedExce... X   RoleRepository.j...

    ▼ TaskRepository.j...

                                                                        UserRepo
  package com.hcl.taskManagerProject.exceptions;
          private static final long serialVersionUID = 1L;
  5
          public SaveFailedException() {
  60
```

super("Error occured on save!");

```
💹 TaskEntity.java 🗶
  package com.hcl.taskManagerProject.entity;
🚵 30 import java.time.LocalDate; 🗌
△20 @Data
 21 @NoArgsConstructor
 23 @Table(name = "tasks")
 24 public class TaskEntity {
 250
         @Id
         @GeneratedValue(strategy = GenerationType.IDENTITY)
         @Column(name = "taskId")
         int taskId;
         @Column(name = "taskName", nullable = false)
 290
         String taskName;
    // @NotNull(message = "{task.date.not.null}")
@DateTimeFormat(pattern = "yyyy-MM-dd")
 320
         @Column(name = "startDate")
         LocalDate startDate;
 35€
         @DateTimeFormat(pattern = "yyyy-MM-dd")
         @Column(name = "endDate")
         LocalDate endDate;
 380
         @Column(name = "description", nullable = false, length = 3200)
         String description;
         @Column(name = "email", nullable = false)
         String email;
         @Column(name = "severity", nullable = false)
 420
         String severity;
 449
         @Column(name = "userId", nullable = false)
         int userId;
```

```
    □ RoleReposit... X □ TaskReposit...

                               UserReposit...
                                               MyUserDetail...

☑ TaskManager...

                                                                              TaskManager...
                                                                                               backage com.hcl;
 30 import org.springframework.boot.SpringApplication;
      public static void main(String[] args) {
    SpringApplication.run(TaskManagerProjectApplication.class, args);
🚺 TaskManagerController.java 🗶
    1 package com.hcl.taskManagerProject.controller;
   3● import java.util.List;
4 import java.util.Optional;
   6 import javax.servlet.http.HttpServletRequest;
   7 import javax.servlet.http.HttpServletResponse;
   9 import org.slf4j.Logger;
  10 import org.slf4j.LoggerFactory;
  11 import org.springframework.beans.factory.annotation.Autowired;
  12 import org.springframework.security.authentication.AnonymousAuthenticationToken;
       import org.springframework.security.core.Authentication;
          ort org.springframework.security.core.context.SecurityContextHolder;
  15 import org.springframework.security.web.authentication.logout.SecurityContextLogoutHandler;
  16 import org.springframework.stereotype.Controller;
     import org.springframework.ui.Model;
  import org.springframework.ui.ModelMap;
import org.springframework.web.bind.annotation.GetMapping;
  20 import org.springframework.web.bind.annotation.ModelAttribute;
  21 import org.springframework.web.bind.annotation.PathVariable;
      import org.springframework.web.bind.annotation.PostMapping;
          ort org.springframework.web.bind.annotation.RequestMapping;
  24 import org.springframework.web.bind.annotation.RequestMethod;
  25 import org.springframework.web.bind.annotation.RequestParam;
      import com.hcl.taskManagerProject.entity.TaskEntity;
          ort com.hcl.taskManagerProject.entity.UserEntity;
  29 import com.hcl.taskManagerProject.exceptions.SaveFailedException;
  30 import com.hcl.taskManagerProject.service.TaskManagerService;
          String currentUserName;
           int taskId;
  360
           @Autowired
           TaskManagerService service;
           Logger logger = LoggerFactory.getLogger(TaskManagerController.class);
  410
           @GetMapping("/")
1
           String hello() {
               logger.info("Mapping to index");
               return "index";
  470
           @PostMapping("/decide")
           public String find(@RequestParam(name = "button") String buttonValue) {
               logger.info("Finding user clicked which button");
               if (buttonValue.equals("Login")) {
    return "login";
                   return "register";
```

```
🗾 TaskManagerController.java 🗶
             570
                        model.addAttribute("error", "Invalid Username or Password");
                   }
if (logout != null) {
    model.addAttribute("logout", "You have Successfully Logged Out");
  699
             @RequestMapping(value = "/logout", method = RequestMethod.GET)
public String logoutPage(HttpServletRequest request, HttpServletResponse response) {
    Authentication auth = SecurityContextHolder.getContext().getAuthentication();
30
                   if (auth != null) {
    new SecurityContextLogoutHandler().logout(request, response, auth);
                  Authentication authentication = SecurityContextHolder.getContext().getAuthentication();
Optional<UserEntity> usercheck = null;
                   if (!(authentication instanced
                                                                              uthenticationToken)) {
                         String currentUserName = authentication.getName();
                        usercheck = service.findByUserName(currentUserName);
                   return usercheck.get().getUserId();
             @RequestMapping(value = "/welcome", method = RequestMethod.GET)
String welcome1(ModelMap model) {
   logger.info("Mapping to index");
   Authentication authentication = SecurityContextHolder.getContext().getAuthentication();
   if (authentication.getAuthorities().iterator().next().getAuthority().equalsIgnoreCase("ROLE_ADMIN")) {
        Iterable<UserEntity> users = service.findAllUsers();
        model.addAttribute("listUsers", users);
        return "detable_are";
                        return "adminWelcome";
 1000
             ₽101
                        model.addAttribute("message", "Username Already Exists!Try a different one!");
                         return "/register";
```

```
🗾 TaskManagerController.java 🗶
                } else {
                    String save = saveMethod(user);
                    if (save.equals("Saved")) {
   model.addAttribute("message", "User Information Saved");
                         return "/login";
                         model.addAttribute("message", "Error Occured on Registration. Please Try again!");
           public String saveMethod(UserEntity user) {
 1190
                    service.update(user);
                    return "Saved";
                } catch (Exception e) {
           @RequestMapping(value = "/welcome", method = RequestMethod.POST)
public String welcome(@RequestParam(name = "button") String buttonValue, ModelMap model) {
    logger.info("welcome page entered");
 1280
₽129
                if (buttonValue.equals("CreateTask")) {
                return "/createTask";
} else {
• 132
                   List<TaskEntity> tasks = service.findAllMethod(getUserIdMethod());
                    model.addAttribute("listTasks", tasks);
return "/viewTasks";
• 136
 1400
           @PostMapping("/createTask")
₽141
           public String createTask(@ModelAttribute("createTask") TaskEntity task, ModelMap model) {
                logger.info("create task page entered");
                task.setUserId(getUserIdMethod());
                String save = saveTaskMethod(task);
• 144
                if (save.equals("Saved")) {
                    model.addAttribute("message", "Task created");
                    return "/welcome";
                    model.addAttribute("message", "Error Occured on Task Save. Please Try again!");
                    return "/createTask";
 1549
           public String saveTaskMethod(TaskEntity user) throws SaveFailedException {
                    service.update(user);
                    throw new SaveFailedException();
```

```
☑ TaskManagerController.java 

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 1630
           @RequestMapping("/viewTasks")
           public String viewTasks() {
                logger.info("Welcome Page Entered");
                return "welcome";
 169€
           @RequestMapping("/deleteAnotherUser")
           public String deleteAnotherUser(ModelMap model) {
                logger.info("Admin Welcome Page Entered");
                Iterable<UserEntity> users = service.findAllUsers();
                model.addAttribute("listUsers", users);
                return "adminWelcome";
 1770
           @GetMapping("/updateTask/{id}")
₽178
           public String updateTask(@PathVariable String id, ModelMap model) {
                logger.info("update task page entered");
                taskId = Integer.parseInt(id);
Optional<TaskEntity > taskEntity = service.findTaskById(taskId);
                TaskEntity newTaskEntity = taskEntity.get();
                if (taskEntity.isPresent()) {
                    model.addAttribute("taskId", newTaskEntity.getTaskId());
                    model.addAttribute("taskName", newTaskEntity.getTaskName());
model.addAttribute("startDate", newTaskEntity.getStartDate());
model.addAttribute("endDate", newTaskEntity.getEndDate());
model.addAttribute("description", newTaskEntity.getDescription());
                    model.addAttribute("email", newTaskEntity.getEmail());
                    model.addAttribute("severity", newTaskEntity.getSeverity());
                    model.addAttribute("taskId", newTaskEntity.getTaskId());
                } else {
                    List<TaskEntity> tasks = service.findAllMethod(getUserIdMethod());
                    model.addAttribute("listTasks", tasks);
model.addAttribute("message", "Task Not found! Error!");
                     return "/viewTasks";
 2010
           @PostMapping("/updateDone")
₽202
           public String updateDone(@ModelAttribute("updateDone") TaskEntity task, ModelMap model) {
                logger.info("updateDone entered");
• 203
                TaskEntity newTaskEntity;
                Optional < TaskEntity > taskEntity = service.findTaskById(task.getTaskId());
                newTaskEntity = taskEntity.get();
                if (taskEntity.isPresent()) {
                     newTaskEntity.setDescription(task.getDescription());
                     newTaskEntity.setEmail(task.getEmail());
                     newTaskEntity.setEndDate(task.getEndDate());
                     newTaskEntity.setSeverity(task.getSeverity());
                     newTaskEntity.setStartDate(task.getStartDate());
```

```
newraskentity.setstartuate(task.getstartuate());
 ZIZ
                   newTaskEntity.setTaskId(taskId);
                   newTaskEntity.setUserId(getUserIdMethod());
                       service.saveTask(newTaskEntity);
                       List<TaskEntity> tasks = service.findAllMethod(getUserIdMethod());
                       model.addAttribute("listTasks", tasks);
model.addAttribute("message", "Task Information Updated");
                       return "/viewTasks";
                   } catch (Exception e) {
                       List<TaskEntity> tasks = service.findAllMethod(getUserIdMethod());
                       model.addAttribute("listTasks", tasks);
model.addAttribute("message", "Error occured on Updation!");
                       return "/viewTasks";
                  List<TaskEntity> tasks = service.findAllMethod(getUserIdMethod());
                  model.addAttribute("listTasks", tasks);
                  model.addAttribute("message", "Task Not found! Error!");
                  return "/viewTasks";
 2350
          @GetMapping("/deleteUser/{id}")
          public String deleteUser(@PathVariable String id, ModelMap model) {
              logger.info("DeleteUserDone entered");
               int userId;
              userId = Integer.parseInt(id);
                   service.findUserById(userId);
                   Iterable<UserEntity> users = service.findAllUsers();
                  model.addAttribute("listUsers", users);
model.addAttribute("message", "User Deleted");
              } catch (Exception e) {
                   Iterable<UserEntity> users = service.findAllUsers();
                  model.addAttribute("listUsers", users);
model.addAttribute("message", "Error occured on Deletion of User!");
                   return "deleteAnotherUser":
              }
 2540
          @GetMapping("/deleteTask/{id}")
₽255
          public String deleteTask(@PathVariable String id, ModelMap model) {
              taskId = Integer.parseInt(id);
              Optional<TaskEntity> taskEntity = service.findTaskById(taskId);
              TaskEntity newTaskEntity = taskEntity.get();
• 259
              if (taskEntity.isPresent()) {
                  model.addAttribute("taskId", newTaskEntity.getTaskId());
                   model.addAttribute("taskName", newTaskEntity.getTaskName());
                   model.addAttribute("startDate", newTaskEntity.getStartDate());
                  model.addAttribute("endDate", newTaskEntity.getEndDate());
                  model.addAttribute("description", newTaskEntity.getDescription());
                  model.addAttribute("email", newTaskEntity.getEmail());
```

```
🗾 TaskManagerController.java 🗶
                     model.addAttribute("endDate", newTaskEntity.getEndDate());
model.addAttribute("description", newTaskEntity.getDescription());
                     model.addAttribute("email", newTaskEntity.getEmail());
                     model.addAttribute("severity", newTaskEntity.getSeverity());
model.addAttribute("taskId", newTaskEntity.getTaskId());
return "/deleteTask";
                } else {
                     List<TaskEntity> tasks = service.findAllMethod(getUserIdMethod());
                     model.addAttribute("listTasks", tasks);
model.addAttribute("message", "Task Not found! Error!");
 2770
           @PostMapping("/deleteDone")
₽278
           public String deleteDone(@ModelAttribute("deleteDone") TaskEntity task, ModelMap model) {
• 279
                logger.info("updateDone entered");
                TaskEntity newTaskEntity;
                Optional<TaskEntity> taskEntity = service.findTaskById(task.getTaskId());
                newTaskEntity = taskEntity.get();
                if (taskEntity.isPresent()) {
                     newTaskEntity.setDescription(task.getDescription());
                     newTaskEntity.setEmail(task.getEmail());
                     newTaskEntity.setEndDate(task.getEndDate());
                     newTaskEntity.setSeverity(task.getSeverity());
                     newTaskEntity.setStartDate(task.getStartDate());
                     newTaskEntity.setTaskId(taskId);
                     newTaskEntity.setUserId(getUserIdMethod());
                          service.deleteTask(newTaskEntity);
                          List<TaskEntity> tasks = service.findAllMethod(getUserIdMethod());
                         model.addAttribute("message", "Task Deleted");
model.addAttribute("listTasks", tasks);
                     return "/viewTasks";
} catch (Exception e) {
                          List<TaskEntity> tasks = service.findAllMethod(getUserIdMethod());
                          model.addAttribute("listTasks", tasks);
                          model.addAttribute("message", "Error occured on Deletion!");
                     List<TaskEntity> tasks = service.findAllMethod(getUserIdMethod());
• 304
                     model.addAttribute("listTasks", tasks);
model.addAttribute("message", "Task Not found! Error!");
                     return "/viewTasks";
 3110
           @RequestMapping("/403")
           public String accessdenied() {
    return "403";
```

```
TaskManagerService.java X
1    package com.hcl.taskManagerProject.service;
2
3    import java.util.List;
8
9    public interface TaskManagerService {
10
11        boolean existsByUserNameAndPassword(String userName, String password);
12
13        Optional<UserEntity> findByUserName(String userName);
14
15        UserEntity update(UserEntity user);
16
17        TaskEntity update(TaskEntity user);
18
19        List<TaskEntity> findAllMethod(int userId);
20
21        Optional<TaskEntity> findTaskById(int taskId);
22
23        void saveTask(TaskEntity newTaskEntity);
24
25        void deleteTask(TaskEntity newTaskEntity);
26
27        Optional<TaskEntity> findTaskByTaskName(String taskName);
28
29        Iterable<UserEntity> findTallUsers();
30
31        void findUserById(int userId);
32
33
```

```
TaskManagerServiceImpl.java X
       backage com.hcl.taskManagerProject.service;
a 30 import java.util.Arrays;
   25 public class TaskManagerServiceImpl implements TaskManagerService {
           @Autowired
            UserRepository userRepository;
   299
             RoleRepository roleRepository;
   320
            TaskRepository taskRepository;
            BCryptPasswordEncoder bCryptPasswordEncoder;
            @Configuration
   37€
   480
                 public BCryptPasswordEncoder employeeService() {
    return new BCryptPasswordEncoder();
   460
             this.userRepository = userRepository;
                 this.roleRepository = roleRepository;
this.bCryptPasswordEncoder = bCryptPasswordEncoder;
  540
            public boolean existsByUserNameAndPassword(String userName, String password) {
    return userRepository.existsByUserNameAndPassword(userName, password);
  590
                return userRepository.findByUserName(userName);
  640
            public UserEntity update(UserEntity user) {
    user.setPassword(bCryptPasswordEncoder.encode(user.getPassword()));
                 user.setActive(user.getActive());
                 user.getRoles();
user.getRoles();
user.getRoles();
forEach(f -> {
   Role userRole = roleRepository.findByRole(f.getRole());
   user.setRoles(new HashSet<Role>(Arrays.asList(userRole)));
```

```
🚜 TaskManagerServiceImpl.java 🗶
                   eturn userRepository.save(user);
  760
            @Override
public TaskEntity update(TaskEntity task) {
    return taskRepository.save(task);
  819
            public List<TaskEntity> findAllMethod(int userId) {
                List<TaskEntity> list = taskRepository.findAll();
List<TaskEntity> newList = null;
                 newList = list.stream().filter(employee -> employee.getUserId() == userId).collect(Collectors.toList());
            public Optional<TaskEntity> findTaskById(int id) {
   Optional<TaskEntity> entity = taskRepository.findById(id);
                 return entity;
  950
            @Override
public void saveTask(TaskEntity taskEntity) {
   taskRepository.save(taskEntity);
           @Override
public void deleteTask(TaskEntity newTaskEntity) {
 1000
                 taskRepository.deleteById(newTaskEntity.getTaskId());
 1050
           public Optional<TaskEntity> findTaskByTaskName(String taskName) {
    return taskRepository.findByTaskName(taskName);
            @Override
public Iterable<UserEntity> findAllUsers() {
   Iterable<UserEntity> list = userRepository.findAll();
 1100
111
                 return list;
 1160
           public void findUserById(int userId) {
               userRepository.deleteById(userId);
                 List<TaskEntity> list = taskRepository.findAll();
                 newList = list.stream().filter(employee -> employee.getUserId() == userId).collect(Collectors.toList());
                 newList.stream().forEach(task->{
                      taskRepository.deleteById(task.getTaskId());
```

```
UserRepository.java X MyUserDetailsService.java TaskManagerService.java TaskMa
```

```
WebSecurityConfig.java X
   package com.hcl.taskManagerProject.config;
   30 import org.springframework.beans.factory.annotation.Autowired;
  15 @Configuration
  16 public class WebSecurityConfig extends WebSecurityConfigurerAdapter{
             @Autowired
             MyUserDetailsService userDetailsService;
  200
             @Bean(name="passwordEncoder")
             public PasswordEncoder passwordencoder(){
              return new BCryptPasswordEncoder();
             @Override
  250
$26
                   .userDetailsService(userDetailsService)
                   .passwordEncoder(passwordencoder());
  320
             @Override
▲33
                   .authorizeRequests()
                  .antMatchers("/").permitAll()
.antMatchers("/login").permitAll()
.antMatchers("/decide").permitAll()
                  .antMatchers("/register").permitAll()
                  .antMatchers("/viewTasks").hasRole("USER")
                  .antMatchers("/updateTask").hasRole("USER")
                  .antMatchers("/createTask").hasRole("USER")
.antMatchers("/deleteTask").hasRole("USER")
.antMatchers("/deleteUser").hasRole("ADMIN")
.antMatchers("/adminWelcome").hasRole("ADMIN")
.antMatchers("/deleteAnotherUser").hasRole("ADMIN")
.antMatchers("/welcome").permitAll()
.antMatchers("/deleteAnotherUser").antMatchers("/welcome").permitAll()
.antMatchers("/welcome").permitAll()
                  .and().csrf().disable()
• 49
                  .formLogin()
                   .loginPage("/login").failureUrl("/login?error=true")
                  .defaultSuccessUrl("/welcome")
.usernameParameter("userName")
.passwordParameter("password")
                   .and().logout(logout -> logout
                   .logoutRequestMatcher(new AntPathRequestMatcher("/logout"))
                  .logoutSuccessUrl("/")
                   .invalidateHttpSession(true)
                   ).exceptionHandling()
                   .accessDeniedPage("/403");
```

JSP:

```
    403.jsp 
    ★ 
    adminWelcome....

                                deleteTask.jsp
                                                  index.jsp
                                                               login.jsp
 1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
        pageEncoding="ISO-8859-1"%>
 3 <!DOCTYPE html>
 49 < html >
 5€ <head>
 6 <meta charset="ISO-8859-1">
 7 <title>Log Out!</title>
 9@ <body>
100
110
                You don't have access to this Page!
       16 </html>
```

```
| deleteAnoth... | deleteTaskjsp | indexjsp | loginjsp | registerjsp | updateTaskjsp | welcomejsp | welcomejs
```

```
detector, and detector, and index, ip a login, ip a register, ip a update losk, ip a view Texts, ip x welcome, ip a login, ip a register, ip a solid reduction of the texts of texts of the texts of texts of the texts of t
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```
deleteAnoth...
                                                                                            🗟 deleteTask.jsp 📓 index.jsp
                                                                                                                                                                                                                                                             B login,jsp

■ register.jsp X ■ updateTask.jsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  📓 viewTasks.jsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          welcome.jsp
                  <%@ page language="java" contentType="text/html; charset=ISO-8859-1
pageEncoding="ISO-8859-1"%
<!DOCTYPE html>
        40 <html>
50 <head>
          6 <meta charset="ISO-8859-1">
7 <title>Register Here!</title>
                                          100
   120
130
140

First Name

                                                                                                                          <input type="text" name="firstName" required />
                                                                                                                          \td>\Last Name
\td>\td>
\td>\tastName" required />

                                                                                                                          \table \text{vsername} \( / \text{td} \) \( \text{cape} \) \( \text{td} \) \( \text{cape} \) \( \text{tope} \) \( \text{td} \) \( \text{cape} \) \( \text{tope} \) \( \tex
                                                                                                      Yeassword
Yeass
   28
29
300
                                                                                                        340
                                                                                                                          >
Role

<input type="radio" id="user" name="roles" value="1"><label
for="user">*User</label>

<input type="radio" id="admin" name="roles" value="2"><label
for="admin">*Admin</label>

   38
390
   410
                                                               <input type="submit" value="Register" />
</form>
```

```
| deleteAnoth... | deleteTaskjsp | index.jsp | login.jsp | viewTasks.jsp | vie
```

```
| deleteAnoth... | deleteTask.jsp | index.jsp | login.jsp | register.jsp | updateTask.jsp | viewTasks.jsp | welcome.jsp | welcom
```

```
deleteAnoth...
                                           📓 deleteTask.jsp 🗶 📓 index.jsp 📓 login.jsp 📓 register.jsp
                                                                                                                                                                                                updateTask.jsp 📳 viewTasks.jsp
                                                                                                                                                                                                                                                                                      🖹 welcome.jsp
     1 | XM@ page language="java" contentType="text/html; charset=ISO-8859-1" | 2 pageEncoding="ISO-8859-1" | 3 <|DOCTYPE html)
     40 <html> 50 <head>
     6 <meta charset="ISO-8859-1">
7 <title>Delete the task</title>
                     100
   129
139
149

        Task Id:
        (td)
        (
                                                  Task Name
\taskName
\taskName
readonly value=${ taskName} >

                                                  >Description

<textarea id="description" name="description" rows="4" cols="50" readonly>${ description}</textarea>

               cols="5

Email

A440
 45
46
47
48
49
50
51
52 </body>
53 </html>
```

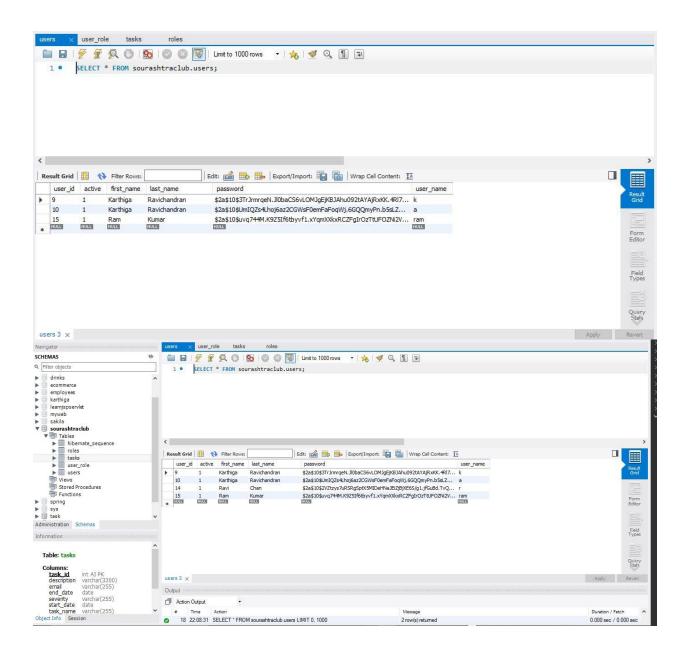
```
adminWelcome.jsp 🗶 📓 deleteTask.jsp
                                                                              🗟 updateTask.jsp
                                     index.jsp
                                                  login.jsp
                                                                register.jsp
 1 km page language="java" contentType="text/html; charset=ISO-8859-1"
       pageEncoding="ISO-8859-1"%
   <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
 4 <!DOCTYPE html>
 50 <html>
 60 <head>
 7 <meta charset="ISO-8859-1">
 8 <title>Home Page</title>
10● <body>
       <div align="center">
110
       ${message }
     <form id="welcome" action="/welcome" method="post">
130
140
150
                       Create Task
                       <input type="submit" name="button" value="CreateTask" />
                       View Tasks
                       <input type="submit" name="button" value="ViewTasks" />
220
230
                       <a href="<c:url value="/logout"/>">Logout</a>
```

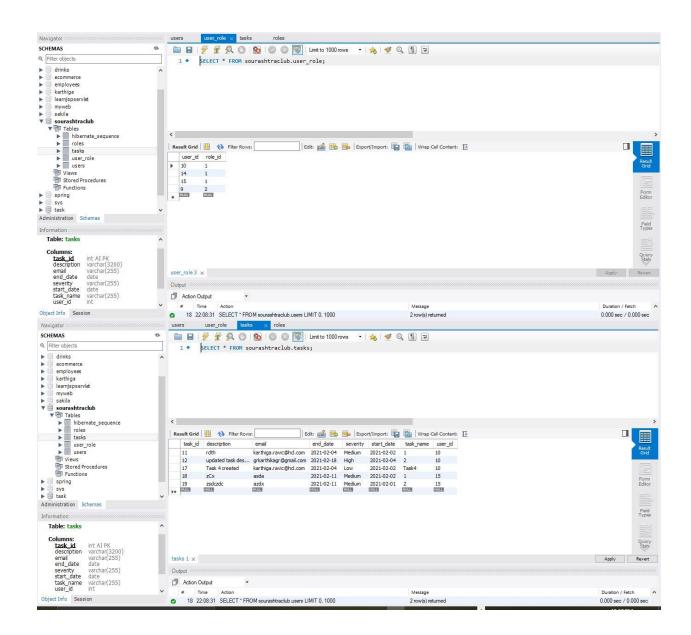
Pom:

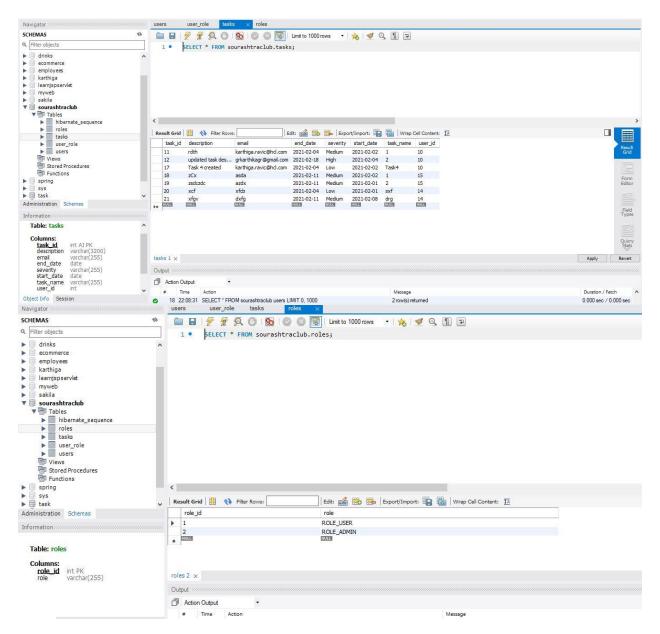
```
🖬 taskManagerProject/pom.xml 🗶
                <optional>true</optional>
            </dependency>
490
            <dependency>
                <groupId>javax.servlet</groupId>
                <artifactId>jstl</artifactId>
530
                <groupId>com.h2database
                <artifactId>h2</artifactId>
                <scope>runtime</scope>
580
                <groupId>mysql</groupId>
                <artifactId>mysql-connector-java</artifactId>
                <scope>runtime</scope>
            </dependency>
630
                <groupId>org.projectlombok</groupId>
                <artifactId>lombok</artifactId>
                <optional>true</optional>
680
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-starter-test</artifactId>
                <scope>test</scope>
            </dependency>
730
                <groupId>org.springframework.security</groupId>
                <artifactId>spring-security-test</artifactId>
                <scope>test</scope>
            </dependency>
        </dependencies>
800
810
820
                    <groupId>org.springframework.boot
                    <artifactId>spring-boot-maven-plugin</artifactId>
850
860
870
                                <groupId>org.projectlombok
                                <artifactId>lombok</artifactId>
                            </exclude>
                        </excludes>
                    </configuration>
93
94
        </build>
```

```
m taskManagerProject/pom.xml X
        xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
        <modelVersion>4.0.0</modelVersion>
 60
           <groupId>org.springframework.boot
           <artifactId>spring-boot-starter-parent</artifactId>
           <version>2.4.2
        <groupId>com.hcl</groupId>
        <artifactId>taskManagerProject</artifactId>
        <version>0.0.1-SNAPSHOT</version>
        <name>taskManagerProject</name
        <description>Task Manager project with Spring Boot</description>
170
210
               <groupId>org.springframework.boot
               <artifactId>spring-boot-starter-data-jpa</artifactId>
           <groupId>org.springframework.boot
           <artifactId>spring-boot-starter-security</artifactId>
290
               <groupId>org.springframework.boot
               <artifactId>spring-boot-starter-web</artifactId>
330
              <groupId>org.springframework.boot</groupId>
               <artifactId>spring-boot-starter-tomcat</artifactId>
               <scope>provided</scope>
389
              <groupId>org.apache.tomcat.embed</groupId>
               <artifactId>tomcat-embed-jasper</artifactId>
               <scope>provided</scope>
430
              <groupId>org.springframework.boot</groupId>
               <artifactId>spring-boot-devtools</artifactId>
               <scope>runtime</scope
               <optional>true</optional>
               <groupId>javax.servlet
               <artifactId>jstl</artifactId>
530
               <groupId>com.h2database
```

WorkBench:







Application Properties:

```
paplication.properties X

1 spring.mvc.view.prefix = /WEB-INF/pages/
2 spring.mvc.view.suffix = .jsp
3 spring.mvc.static-path-pattern=/resources/**
4 spring.jpa.hibernate.ddl-auto=update
5 spring.datasource.url= jdbc:mysql://localhost:3306/sourashtraclub?createDatabaseIfNotExist=true
6 spring.datasource.username=root
7 spring.datasource.username=root
8 spring.jpa.properties.hibernate.format_sql=true
9 spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
10 logging.level.org.springframework.web: DEBUG
11 server.port=8082
12 spring.datasource.initialization-mode=always
```

Folder Structure:

