MainController

```
package com.mycompany.mywebapp1;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.GetMapping;

@Controller
public class MainController {

    @GetMapping
    public String showHomePage()
    {
        return "index";
    }
}
```

User

```
public void setFirstName (String firstName) {
    this.firstName = firstName;
}

public void setLastname(String lastname) {
    this.lastname = lastname;
}

public void setPassword(String password) {
    this.password = password;
}

public void setId(int id) {
    this.id = id;
}

public String getLastname() {
    return lastname;
}

public String getFirstName() {
    return firstName;
}

public String getPassword() {
    return password;
}

public int getId() {
    return id;
}

public String getEmail() {
    return email;
}
```

index.html

Controller

```
package com.mycompany.mywebapp1.com.company;
import ch.qos.logback.core.model.Model;
import jakarta.persistence.Tuple;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import java.util.List;
import static jdk.vm.ci.hotspot.riscv64.RISCV64HotSpotRegisterConfig.ra;
@org.springframework.stereotype.Controller
public class Controller {
    Private UserService
    public String showUserList(Model model) {
        List<User> listuser = service.listAll();
        service.save(user);
    @PostMapping("/users/save")
    public <redirectAttribute> String saveUser(User user, redirectAttribute
        service.save(user);
        ra.addFlashAttribute("message", "The user has been saved
    @GetMapping("/users/edit/{id}")
    public String showEditForm(@PathVariable("id") Integer Id, Model model)
            User user = service.get(Id);
        } catch (UserNotFoundException e) {
```

```
@GetMapping("/users/delete/{id}")
public String deleteUser()
{
    try
    {
        service.delete(Id);
        ra.addFlashAttribute("message","The user ID"+Id+"has been
deleted");

    }
    catch(ClassNotFoundException e)
    {
        ra.addFlashAttribute("message",e.getMessage());
    }
    return "redirect:/users";
}
```

User form.html

```
<!DOCTYPE html>
<html lang="en" th:href="https//www.thymleaf.org">>\
    <title>[[${pageTitle}]]</title>
          th:href="@{/webjars/bootstrap/css/bootstrap.min.css}"/>
</head>
<div class="container-fluid"></div>
<div class="text-center"></div>
<button type="submit" class="btn btn-primary m-2">Save</button>
    <h2>Add New User</h2>
    <form th:action="@{/users/save}" method="post" th:object="${users}"</pre>
          style="max-width:500px;margin:0 auto">
        <input type="hidden" th:field="*{id}">
        <div class="border border-secondary rounded p-3">
                <label class="col-sm-4 col-form-label">Email:</label>
                    <input type="email" th:field="*{'email'}" class="form-</pre>
                    <input type="password" th:field="*{'password'}"</pre>
                    <input type="lastname" th:field="*{'lastname'}"</pre>
class="form-control" required min length="5" max length="15"/>}
                     <input type="enabled" th:field="*{'enabled'}">
              </div>
            </div>
        </div>
            function cancelForm()
```

CrudeRepository

```
package com.mycompany.mywebapp1.com.company;
public interface crudeRepository<User> {
}
```

UserNotFoundException

```
package com.mycompany.mywebapp1.com.company;

public class UserNotFoundException extends Throwable {
    public UserNotFoundException(String s) {
    }

    public void delete(Integer Id)
    {
        repo.deleteById(Id);
    }
}
```

UserRepository

```
package com.mycompany.mywebapp1.com.company;
public interface UserRepository extends crudeRepository<User>{
    public long countById(Integer id);
    public void delete(Integer Id)
    {
        Long count=repo.countById(Id);
        if(count==null||count==0)
        {
             try {
                  throw new UserNotFoundException("Could not fing any users with ID"+Id);
        } catch (UserNotFoundException e) {
                  throw new RuntimeException(e);
        }
            repo.deleteById(Id);
    }
}
```

UserService

```
package com.mycompany.mywebappl.com.company;
import org.hibernate.mapping.List;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Service;
import java.util.Optional;

@Service
public class UserService {

   private UserRepository repo;
   private List<user> listAll() {
        return (List<user>) repo.findAll();
   }

   public User get(int id)
   {
        Optional<User> result=repo.findById(id);
        if(result.isPresent())
        {
            return result.get();
        }
        throw new UserNotFoundException("Could not find any users with

ID"+id);
   }
}
```

users.html

```
center"></div>
   [[${message}]]}
          <div>
              <a class="h3" th:href="@{'/users/new'}">Add New User</a>
              <a class="h4 m-2" th:href="@{'/users/edit'</pre>
+${user.edit}}"></a>
              <a class="h4 m-2" th:href="@{'/users/delete'</pre>
+${user.delete}}"></a>
          <div class="m-3"></div>
              Id
              Email
              First Name
              Last Name
              Enabled
          <th:block th:each="user:${list(users)}">
                 delete
       </div>
</body>
```

MyWebApp1Application

```
package com.mycompany.mywebapp1;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class MyWebApplApplication {

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

application.proprties

```
spring.datasource.url=jdbc:MySQL://localhost:3306/usersdb
spring.datasource.username=root
spring.datasource.password=system
spring.jpa.hibernate.ddl-auto=update
spring.jpa.properties.hibernate.show_sql=true
```