Practice Test

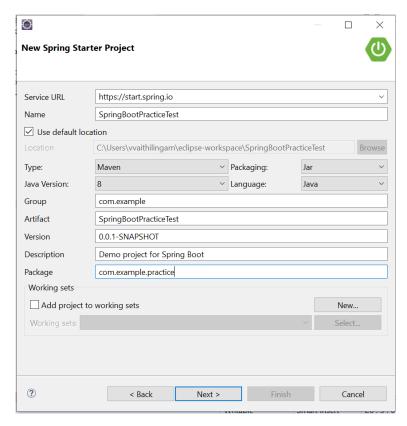
Step 1: Create a table "Student" under "centennial" database with the following fields in MySQL

stdNo integer

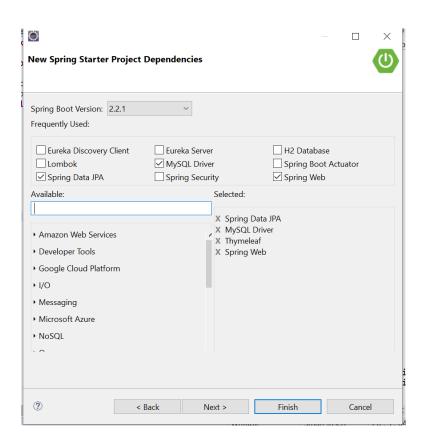
stdName String

course String

Step 2: Create a new Spring Stater project in eclipse or create a project using spring.io web site named "SpringBootPracticeTest".



Choose the necessary dependencies like Spring Web, MySQL Driver, Spring Data JPA, ThymeLeaf, and Spring Dev Tools.



Step 3: Write this code in student.java class.

```
public class Student {
  private int stdId;
  private String stdName;
  private String Course;
  ......
}
```

Include all the necessary annotations like @Entity, @Id etc and validation annotations like @NotNull, @Size or @Range etc.

```
Step 4: Write this code for StudentRepository.java class
package com.example.practice;
import org.springframework.data.jpa.repository.JpaRepository;
public interface StudentRepository extends JpaRepository<Student, Integer> {
}
       Step 5: Write this code for StudentController.java file
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.ui.Model;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.ResponseBody;
import org.springframework.web.bind.annotation.RestController;
@Controller
public class StudentController {
       @Autowired
       private StudentRepository stdRepository;
       @RequestMapping("/")
       public String home()
       {
              return "index";
```

}

```
@RequestMapping("/del")
      public String del()
      {
             return "delete";
     }
      @RequestMapping("/update")
      public String update()
      {
             return "update";
     }
      @PostMapping("/add")
public @ResponseBody String add(@RequestParam("stdId") int stdId,
    @RequestParam("stdName") String stdName,
    @RequestParam("course") String course);
{
   Student student=new Student(stdId,stdName,course);
  stdRepository.save(student);
  return "A student info added";
}
@RequestMapping("/show")
public String show(Model model)
{
  model.addAttribute("student", stdRepository.findAll());
  return "show";
}
```

```
@RequestMapping("/edit")
  public @ResponseBody String edit(@RequestParam("stdId") int stdId,
      @RequestParam("stdName") String stdName,
      @RequestParam("course") String course)
  {
     Student student=new Student(stdId,stdName,course);
    stdRepository.save(student);
    return "A student info updated";
  }
  @RequestMapping("/delete")
  public @ResponseBody String delete(@RequestParam("stdId") int stdId)
  {
  stdRepository.deleteById(stdId);
    return "one row deleted";
  }
}
Step 6: Ensure that you have boot application class named "SpringBootPracticeTestApplication"
       @SpringBootApplication
        public class SpringBootPracticeTestApplication {
               public static void main(String[] args) {
                       SpringApplication.run(SpringBootRestEmployeeApplication.class, args);
                       System.out.println("Spring Boot JPA started.");
               }
```

Step 7: Create your input and view files under src/main/resources/templates folder

```
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<head>
<meta charset="ISO-8859-1">
<title>Get Students</title>
</head>
<body>
    <form action="add" method="POST">
    Student Id : <input type="text" name="stdId"/> </br>
    Student Name : <input type="text" name="stdName"/></br>
    Course Name : <input type="text" name="course"/></br>
         <input type="submit" name="Add Student"/>
    </form>
</body>
     </html>
     Show.html
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<meta charset="ISO-8859-1">
<title>Student list</title>
</head>
<body>
<thead>
      Id
        Name
        Job
        Salary
      </thead>
      Id
         Name
         courser
       </body>
     </html>
     Like create other html files too
```

Step 8: Run this spring boot project