

**30-Nov-2022**  
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**AddingFieldsInList using -SPRING CRUD**  
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**STEP 1:**  
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Create the spring boot application and provide the proper name to our application and some dependencies which is use ful for our project.

**STEP 2:**  
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Make sure in the main method .run is present and provide the @SpringBootApplication

**STEP 3:**  
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create the class and provide the class name there should present the attributes of our table

provide @Entity--which tells the in this class the attributes should be a table name  
provide @Id ----which indicates the primary key in our table or primary key in the attributes  
provide getter setter ,generate constructor and all.....

**STEP 4:**  
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create an interface which extends the crudRepository

-----

```
package com.mukesh;
```

```
import java.util.List;
```

```
import jakarta.persistence.Entity;  
import jakarta.persistence.Id;
```

**@Entity**

**public class StudentsDetails {**

**@Id**

**private String name;**

**private int age;**

**private String interest;**

**public StudentsDetails(String name, int age, String interest) {**

**super();**

**this.name = name;**

**this.age = age;**

**this.interest = interest;**

**}**

**public StudentsDetails() {**

**// TODO Auto-generated constructor stub**

**}**

**public String getName() {**

**return name;**

**}**

**public void setName(String name) {**

**this.name = name;**

**}**

**public int getAge() {**

**return age;**

**}**

**public void setAge(int age) {**

**this.age = age;**

**}**

**public String getInterest() {**

```
        return interest;
    }

    public void setInterest(String interest) {
        this.interest = interest;
    }

    @Override
    public String toString() {
        return "Students [name=" + name + ", age=" + age + ", interest=" + interest + "];"
    }

}
```

---

```
package com.mukesh.controller;
import java.util.List;
```

```
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.DeleteMapping;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PatchMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.PutMapping;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;
```

```
import com.mukesh.StudentsDetails;
```

```
@RestController
public class StudentsController
{
    @Autowired
    StudentsService studentsService;

    @GetMapping("/stDetails")
    public List<StudentsDetails> getAllStudentsDetails()
    {
        return studentsService.getAllStudentsDetails();
    }

    @GetMapping("/stDetails/{name}")
    public StudentsDetails getStudent(@PathVariable String name)
    {
        return studentsService.getStudent(name);
    }

    @DeleteMapping("/stDetails/{name}")
    public void deleteBook(@PathVariable String name)
    {
        studentsService.deleteBook(name);
    }

    @PostMapping("/stDetails")
    public void PostStudents(@RequestBody StudentsDetails studentsDetails)
    {
        studentsService.PostStudents(studentsDetails);
    }

    @PutMapping("/stDetails/{name}")
    public void update(@RequestBody StudentsDetails studentsDetails,@PathVariable String name)
    {
        studentsService.update(name,studentsDetails);
    }
}
```

```
}
```

```
}
```

```
package com.mukesh.controller;
```

```
import java.util.ArrayList;
```

```
import java.util.Arrays;
```

```
import java.util.List;
```

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

```
import org.springframework.stereotype.Service;
```

```
import com.mukesh.StudentsDetails;
```

```
import com.mukesh.StudentsRepository;
```

```
@Service
```

```
public class StudentsService
```

```
{
```

```
    @Autowired
```

```
    StudentsRepository studentsRepository;
```

```
    public List<StudentsDetails> getAllStudentsDetails()
```

```
    {
```

```
        List<StudentsDetails> al = new ArrayList<StudentsDetails>();
```

```
        studentsRepository.findAll().forEach(al::add);
```

```
        return al;
```

```
    }
```

```
    public StudentsDetails getStudent(String name)
```

```
    {
```

```
        return studentsRepository.findById(name).get();
```

```
    }
```

```
public void deleteBook(String name)
{
    studentsRepository.deleteById(name);
}

public void update(String name, StudentsDetails studentsDetails)
{
    studentsRepository.save(stumdenentsDetails);
}

public void PostStudents(StudentsDetails studentsDetails) {

    studentsRepository.save(studentsDetails);

}

}

-----

package com.mukesh;

import org.springframework.data.repository.CrudRepository;

public interface StudentsRepository extends CrudRepository <StudentsDetails, String> {

    Iterable<StudentsDetails> findAll();

}
```

=====

**open postman app to add the values to the fields**