24 January 2023 14:12

// Creating Controller Put

Put: we will update

1. Add the controller
2. Adding the abstract method in service interface.
3. Creating Method in the implentation class

```
//Upating the course
@PutMapping("/courses")
public Courses updateCourse(@RequestBody Courses course) {
    return this.csvariable.updateCourse(course);
}
```

```
package com.springRest.SpringRest.service;
import java.util.List;


public interface CourseService {

    //Here we will create an abstract method that will return the list
    //of courses

    public List<Courses> getCourses();
    //We won't define it over here....loose coupling
    //Loose Coupling ...changes are easy
    //it will call its child body

    public Courses getSingleCourse(long courseId);

    public Courses addCourse(Courses course);

    public Courses updateCourse(Courses course);
}
```

```
    @Override
    public Courses updateCourse(Courses course) {
        // TODO Auto-generated method stub
        list.forEach(e -> {
            //Traversing the whole list
            if(e.getId() == course.getId()) {
                e.setTitle(course.getTitle());
                e.setDesc(course.getDesc());
            }
        });
        return course;

    }
```

Whenever we are creating API's, we need to return HTTP Status response like 200, 404 etc.

We can use: ResponseEntity<HttpStatus>

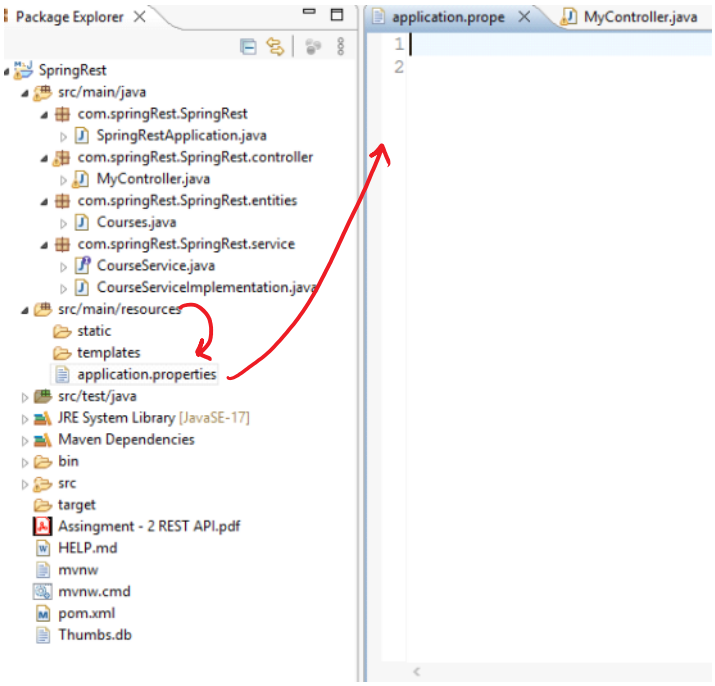
Now we need to connect with dbs.

Work over: DOA layer (ref: J2EE Architecture)

To configure anything on spring boot →

You need to open application.properties file.

In properties file we



In properties file we write key:value

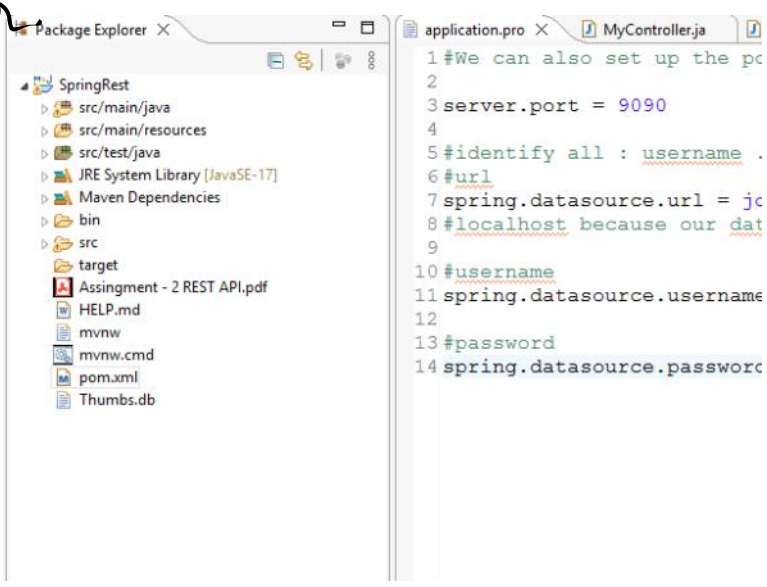
we can change our port here as well.

server.port = 9090 (ex)

To add comment => # (or we ctrl + /)

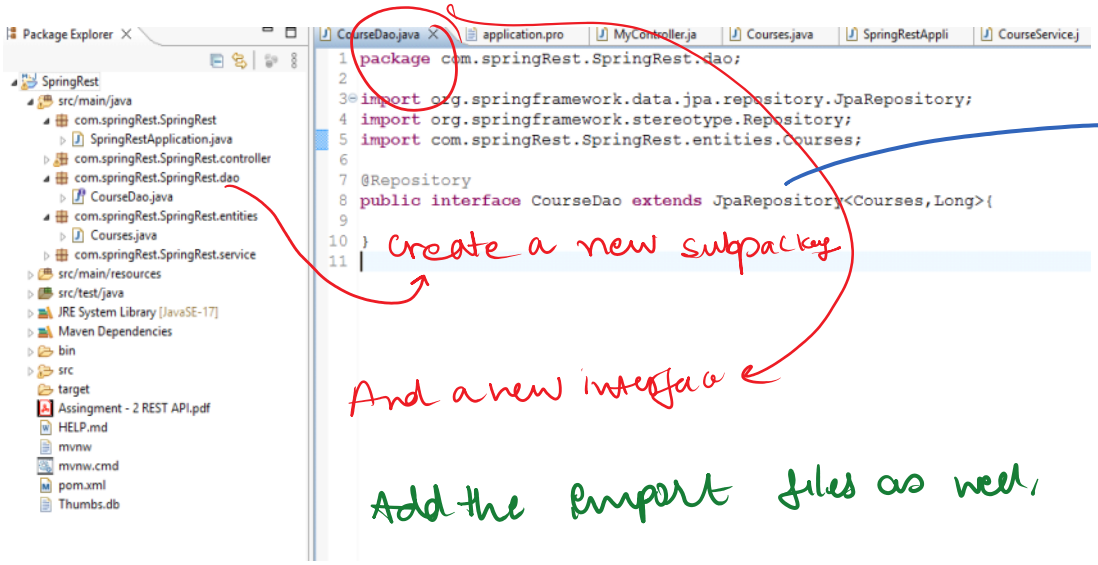
check whether you have correct dependancies.

Now after setting the application properties we will create dao layer.



Create a subpackage in your src/main/java and

Create new interface ex:- For DAO layer



Sometimes this doesn't works -- So force update on that case.

If we don't use JPA , we have to do a lot of things .....we have to do all things manually like creating interfaces and them completing them

It takes two things :

1. Entity you are dealing with.
2. Type of the primary key of that entity

Now it has all the inbuilt methods to do the work.

```
@Repository
public interface CourseDao extends JpaRepository<Courses,Long>{

}
```

Now we will go to the course Implementation file and in that we will comment out all the earlier Methods -- because they were dealing with the data manipulation at RAM Level.

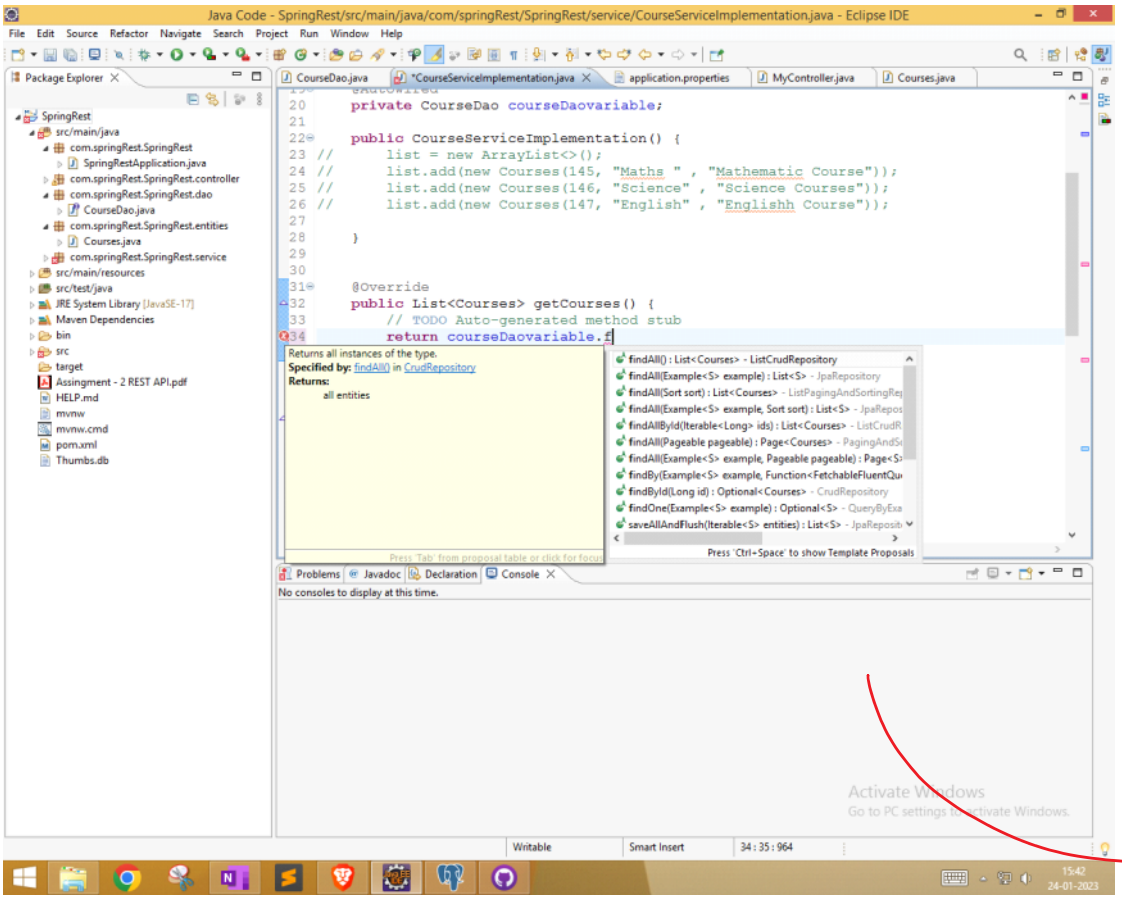
```
@Autowired
private CourseDao courseDaovariable;

public CourseServiceImplementation() {
/       list = new ArrayList<>();
/       list.add(new Courses(145, "Maths " , "Mathematic Course"));
/       list.add(new Courses(146, "Science" , "Science Courses"));
/       list.add(new Courses(147, "English" , "Englishh Course"));

}
```

Since courseDao is an interface and we can't form object of that but

we need an object for same, so we will use autowired



Now to complete our functions we have inbuilt fxns. Just type and you will get suggestions.

For eg: for getting courses - findAll()

Similarly to get single course : return courseDaovariable.getReferenceById(courseId);
In update and add we use : courseDaovariable.save(course);

Why ? : Because if its not available JPA will add and if its available JPA will update it