

05 - Repository Layer

The Repository Layer is responsible for interacting with the database in a Spring Boot application.

- It abstracts all the data-related operations such as saving, fetching, updating, and deleting records from the database.
- In Spring Boot, repositories are marked with the `@Repository` annotation.

Example:

LaptopRepository.java

```
package com.telusko.app.repo;

@Repository
public class LaptopRepository {

    public void save(Laptop lap) {

        System.out.println("Saved in Database..");

    }

}
```

- **@Repository:**
It allows Spring to manage it as a bean and also handle any database-related exceptions.
- **save(Laptop lap):**
The method simulates saving a Laptop object to the database by printing a message.

LaptopService.java

```
package com.telusko.app.service;

@Service
public class LaptopService {

    @Autowired
    private LaptopRepository repo;

    public void add(Laptop laptop) {

        repo.save(laptop);

    }

    public boolean isGoodForProg(Laptop lap) {

        return true;

    }

}
```

Laptop.java

```
package com.telusko.app.model;

@Component
public class Laptop implements Computer {

    public void compile() {

        System.out.println("Compiling in Laptop");

    }

}
```

SpringBootDemoApplication.java

```
package com.telusko.app;

@SpringBootApplication
public class SpringBootDemoApplication {

    public static void main(String[] args) {

        ApplicationContext context =
            SpringApplication.run(SpringBootDemoApplication.class, args);

        LaptopService service = context.getBean(LaptopService.class);

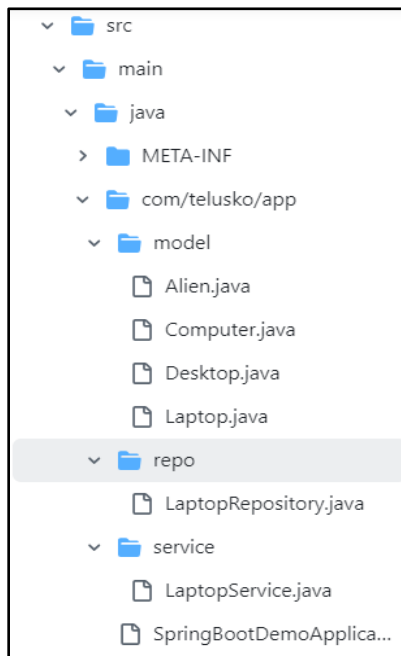
        Laptop laptop = context.getBean(Laptop.class);

        service.add(laptop);

    }

}
```

Project Structure:



Code Link:

[https://github.com/navinreddy20/spring6-course/tree/c6690e4f2c70d8f530d70623f13d14ff0ffd7e7d/3.2%20Moving%20to%20Spring%20Boot%20\(3.10%20to%203.14\)/3.14%20Repository%20Layer](https://github.com/navinreddy20/spring6-course/tree/c6690e4f2c70d8f530d70623f13d14ff0ffd7e7d/3.2%20Moving%20to%20Spring%20Boot%20(3.10%20to%203.14)/3.14%20Repository%20Layer)