04 - Service Class

In Spring Boot, the Service Layer is responsible for processing business logic and interacting with the repository or other components when necessary.

- The **@Service** annotation is used to denote a class as a service provider, that allows Spring to detect and manage it as a bean in the application context.
- The Service Class is responsible for:
  - Containing the business logic of the application.
  - Processing and handling data.
  - Acting as an intermediary between the Controller and Repository layers.

Example:

LaptopService.class

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

@Service
public class LaptopService {

    public void add(Laptop laptop) {

        System.out.println("method called");

    }

    public boolean isGoodForProg(Laptop lap) {

        return true;

    }

}
```

Laptop.class

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

@Component
public class Laptop implements Computer {

    public void compile() {

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

    }

}
```

SpringBootDemoApplication.class

```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);

    }

}
```
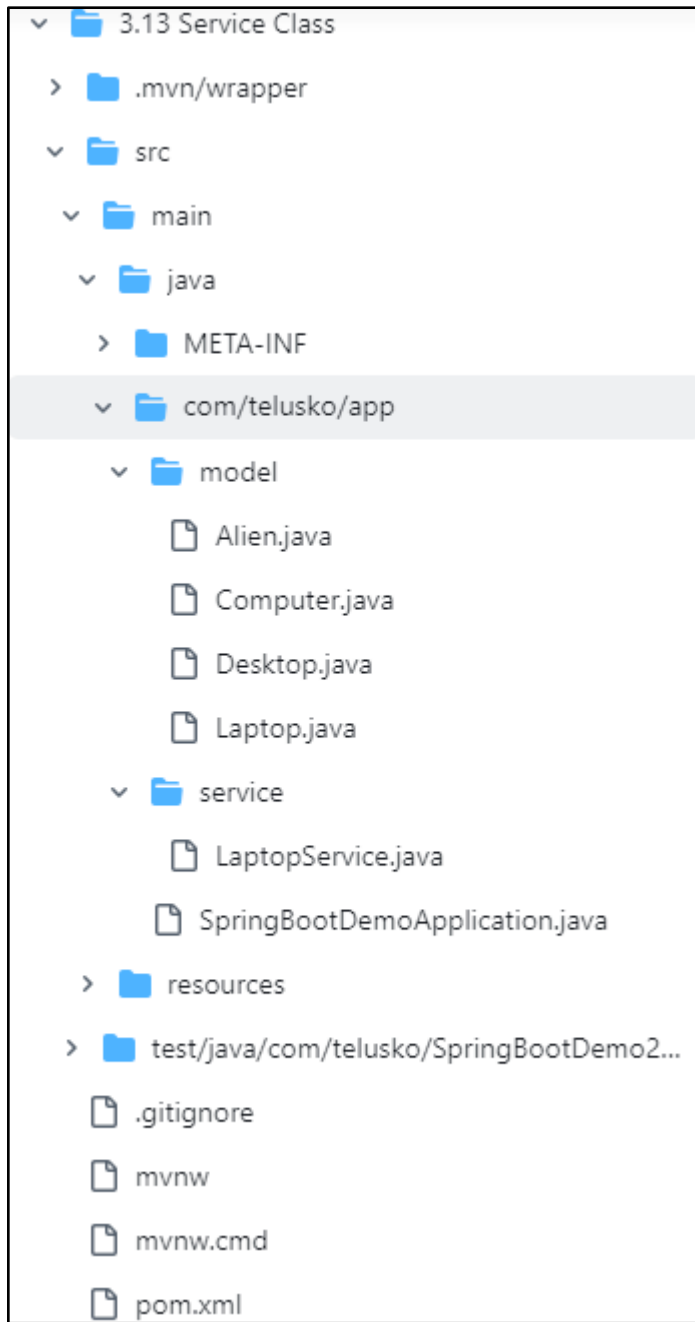
Project Structure:

Code Link: