SpringBoot MVC

Until now, we have explored the complete workings and behind-the-scenes mechanisms of both the **Spring framework** and **Spring Boot** .

Both are quite similar in their functionalities, but the difference lies in their configuration approaches. Projects in the Spring framework can be implemented using Java-based, XML-based, and annotation-based configurations. In our example, we used the XML-based approach, whereas in Spring Boot, we used annotations exclusively.

The major difference is that in the Spring framework, a lot of manual configuration is required, which can distract developers from focusing on the main business logic. In contrast, Spring Boot manages most configurations with annotations, allowing developers to concentrate on the core functionality.

Spring Boot operates on top of the Spring framework. If any issue arises in the Spring framework, it can take a lot of time to debug. However, debugging in Spring Boot is easier, which is a significant advantage.
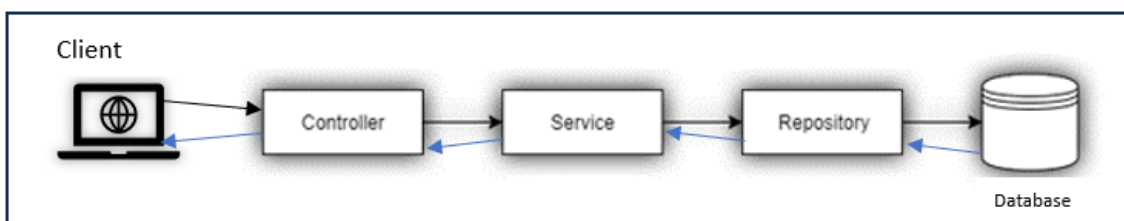
Previously, we worked on console-based standard applications. Now, we are moving towards developing web-based applications.

The key difference between a normal console-based application and a web application is that a web application is hosted on a web server, using servlets, while a console application runs on the JVM without involving a server. Additionally, web applications use HTTP (Hyper Text Transfer Protocol) to send and receive requests over the network.

A web application does not simply run on the JVM; it requires a server or a web container. In our case, we will be using the Tomcat server, which is embedded in Spring Boot.

We will follow a layered approach using the CSR (Controller, Service, and Repository) model.

- **Controller:** The controller interacts with the client by receiving and sending requests.
- **Service:** The service class handles the business logic in the service layer.
- **Repository:** The repository manages data retrieval, insertion, and interaction with the database, sharing data with other layers of the project.

In the next chapter, we will start with **Spring Boot MVC**.

Happy Coding & learning 🙂 👾