Spring Environment Setup

To set up a development environment for Spring Framework, we need to have the following tools:

- Install Java
- Install Eclipse
- Install Tomcat Server
- Download Spring JARs

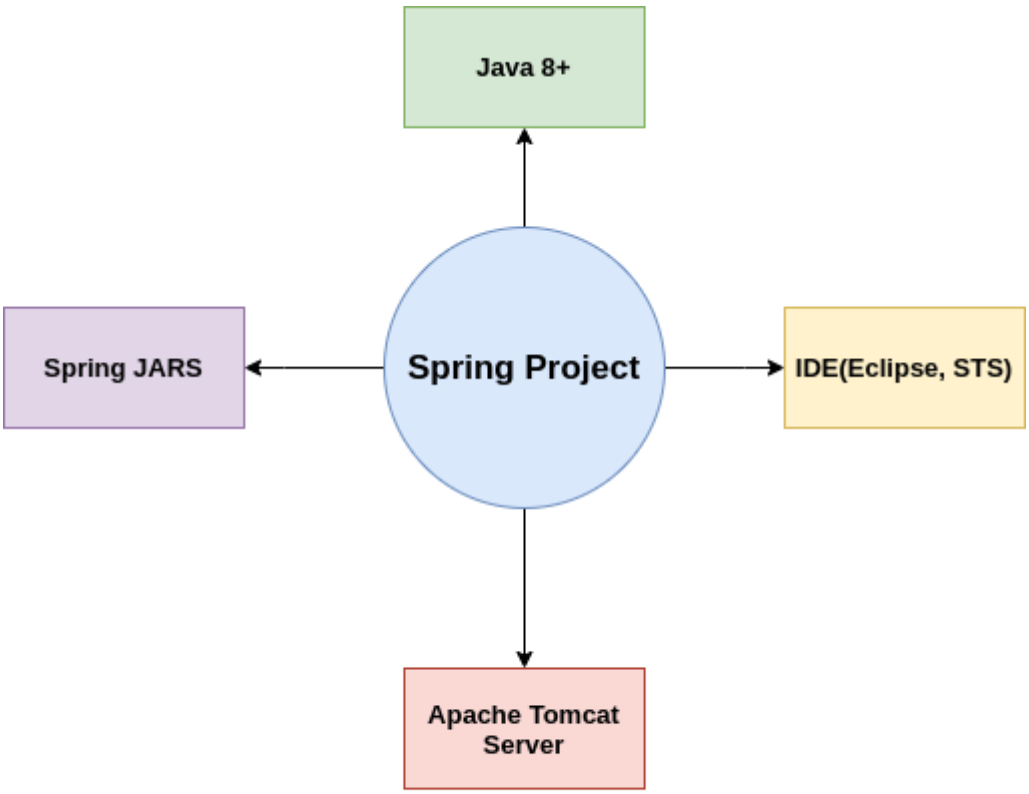


Fig: Spring Project Components

So let's download and install these tools in our local system so that we can execute the Spring application successfully.

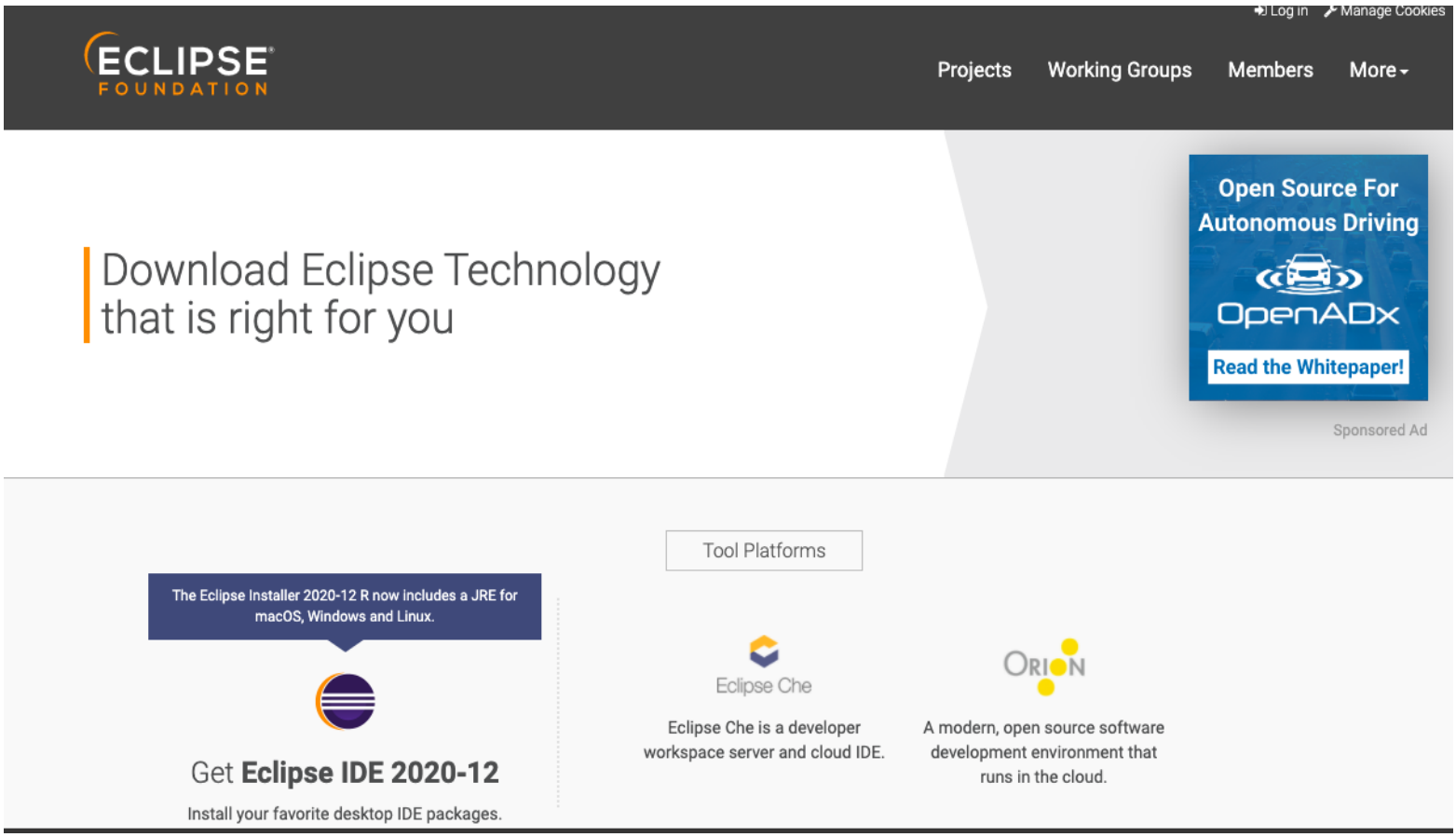
Step 1: Install Java

Java is a programming language that is used by the Spring framework to create an application. So it is our first task to Install Java and set up its classpath on our computer. For more about Java Language, you can read our Java tutorial.

Step 2: Download and Install Eclipse

Eclipse is an IDE(Integrated Development Environment) that is used for software development. It provides a platform to build applications a single place. We can handle multiple tools and by using its controls.

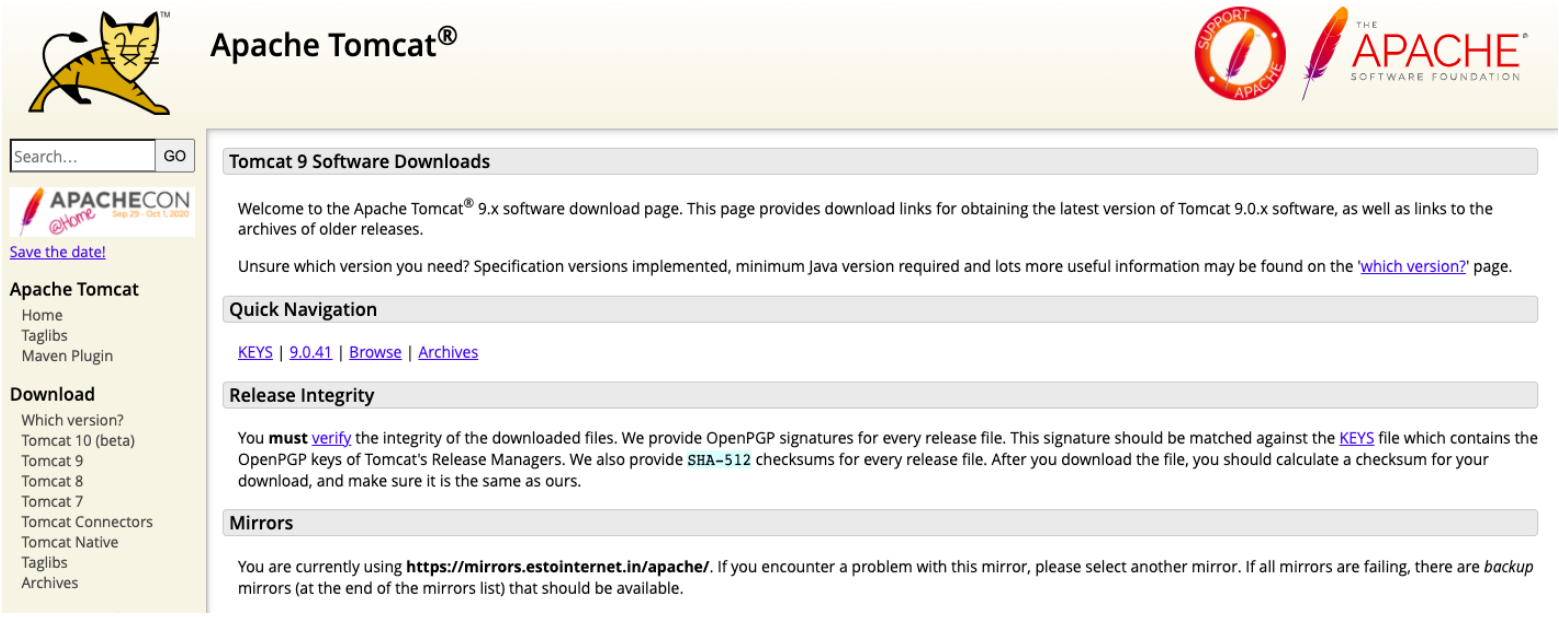
To download the Eclipse, visit the official site of the Eclipse and download it. After downloading the **Zip file**, extract and install it.



While installing Eclipse, make sure **Java** has **installed** along with its **classpath** because Eclipse picks the JVM path during installation**.**

Step 3: Download Tomcat Server

Tomcat is a server that allows testing web applications on the local machine. Here, we will use it to test our Spring application. We can download it from the official site of Apache Foundation. After downloading, extract it, we will use it to run the application on the server.



We recommend you to download version 9 of the Tomcat server.

Step 4: Download Spring JARs

To work with the Spring framework, we must have Spring JARs that are basically Java files that contain packages, classes, and interfaces to create the spring application.

There are two ways to have these JARs. Either download them from the Spring official site and put them into the Spring project or create a Maven project that will automatically download these JARs into your project.

If you want to download these JARs directly then visit the official repository of Spring by clicking here Download Spring JARs. Pick the latest JARs from there, extract them, and put them into the Spring project's lib folder.

After doing all the above steps, now we can create a Spring application by using the Eclipse IDE. **In our next topic,** we will **create a spring application**.