INSTRUCTIONS

Set up your environment

Download lab zip file

1. Download the lab zip file.

2. Once you have downloaded the file, unzip it under a directory of your choice. The unzipped directory `core-spring-labfiles/lab` contains the lab projects.

Install required software

Install the following software if they are not installed already on your machine.

1. Java 11:

   - Oracle Java 11
   - Open JDK Installations

2. REST client

   - curl or
   - Postman

Build the projects

1. Build the projects under `core-spring-labfiles/lab` directory. This will download and install required dependencies to local repository.

   Windows:

```
mvnw clean install
```

MacOSX or Linux:

```
chmod 755 mvnw
./mvnw clean install
```

2. If you experience any build failure, check firewalls or proxy settings in the `<Home-Directory>/.m2/settings.xml` file.

Choose an IDE

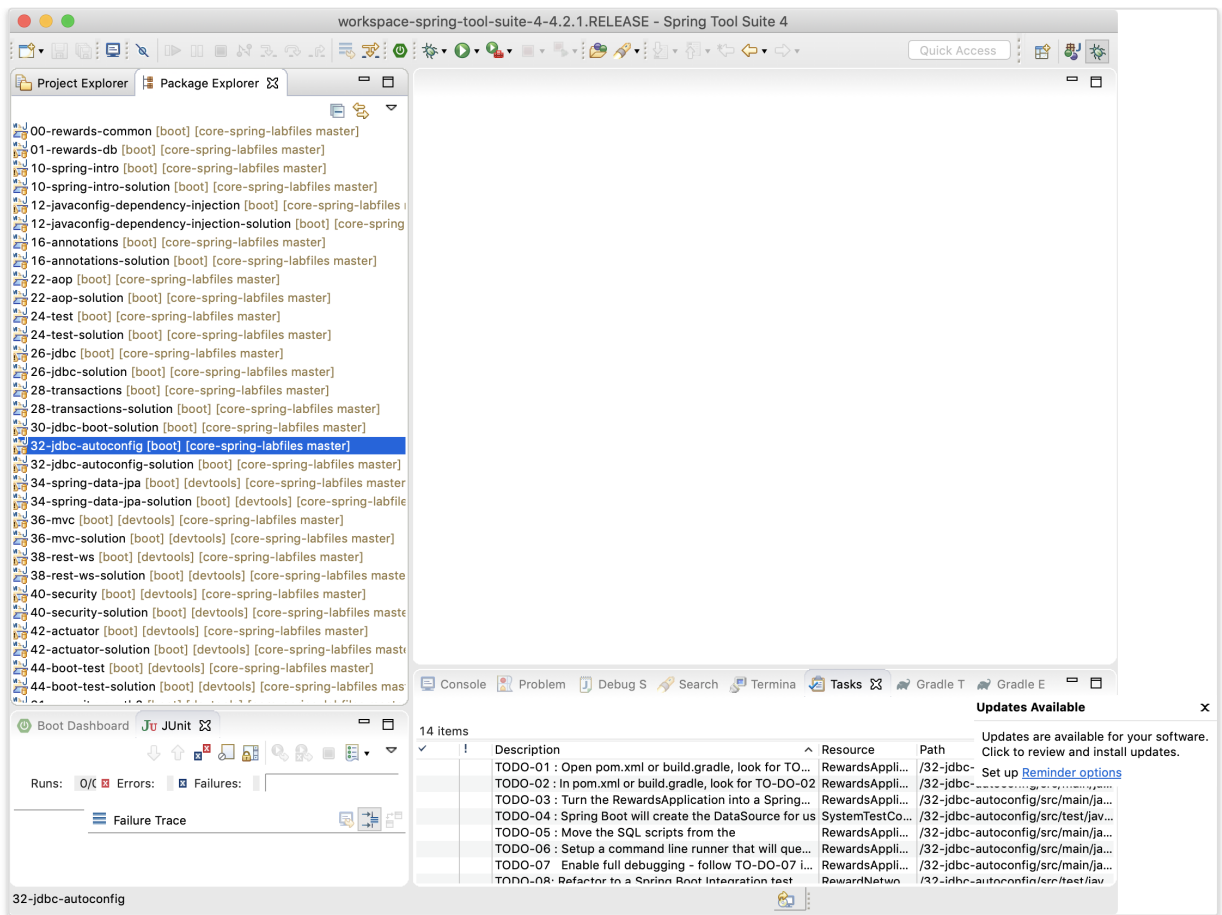While the lab projects can be built and run without an IDE, usage of a mainstream Java IDE is strongly encouraged.

The course assumes one of the following, although you may pick an alternate one with feature parity:
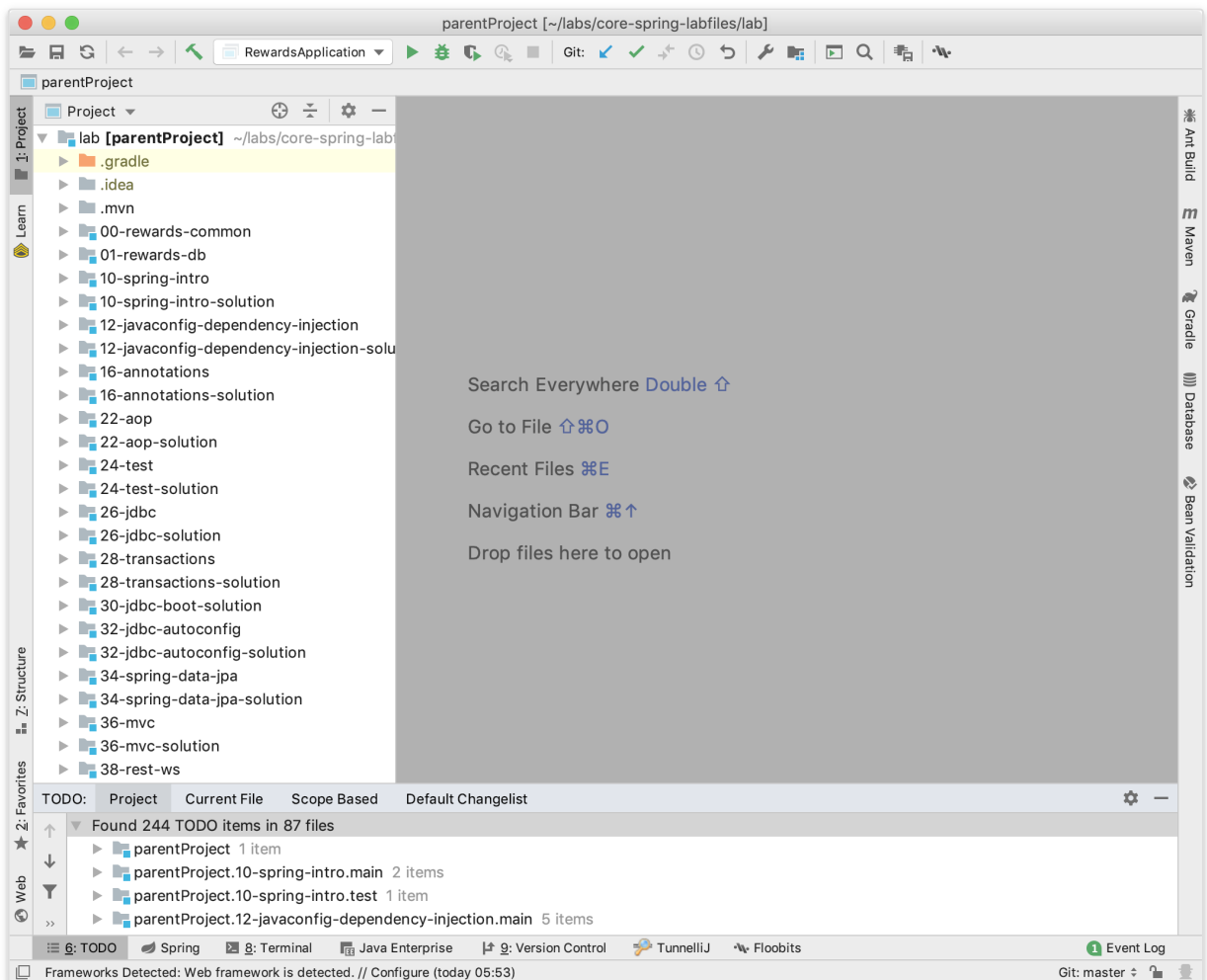
- Spring Tools 4 (STS)
- JetBrains IntelliJ

The Spring Tools 4 (STS) is a free IDE built on the Eclipse Platform with additional plugins to support Spring, Aspect Oriented Programming and the Tanzu Application Service deployment platform.

Import projects into your IDE

1. Import the projects in `core-spring-labfiles/lab` into your IDE. You can import them as either Maven or Gradle projects.

   - For STS, you can perform "Import" from the `lab` directory, which will import the projects underneath it.

   - For IntelliJ, you can perform "Import Projects" via the parent `pom.xml` or `build.gradle`, and IntelliJ will automatically set them up as a multi-module project.

2. Verify that the projects are imported correctly.

   - STS:

- IntelliJ:

3. Review Configuring TODOs (Tasks) under Appendix section of course contents

Troubleshooting

After importing the lab projects, your IDE may report errors, typically related to project dependencies. You can resolve these issues using the following techniques:

- For STS:
    - Select all projects, right-click, Maven, Update Projects.
    - Clean all selected projects
    - Close & Open all projects