Using Maven

Maven

- Simplifies project management
- Centralized dependency management
- Automatic build process
- Easy integration with IDEs (like IntelliJ)
- Enforces project conventions
- Community support
- Used in Spring Initialize

Maven - Simplifies project management

- Provides a standardized way of managing Java projects
- Making it easier to create and manage complex projects
- Provides a set of best practices for organizing project structure

Maven - Centralized dependency management

- Simplifies dependency management
- Provides a centralized repository for all dependencies
- Ensureas that everyone in the project uses the same versions of libraries

Maven - Automatic build process

- Automates the build process
- Makes it easy to build, test and package Java applications
- Provides plugins for common build tasks like compiling and running tests

Maven - Easy integration with IDEs (like IntelliJ)

- Integrates easily with popular Java IDEs like Eclipse and IntelliJ
- Allows developers to build, test and deploy applications from the IDE

Maven - Enforces project conventions

 Enforces a set of project conventions, like directory structure and naming conventions

Maven - Community support

- Has a large community of users and contributors
- Lot of documentation, tutorials and resources available online

Maven - Used in Spring Initializr

- Maven is one of the project management alternatives in Spring Initialization
- When selected Spring Initializr will generate a Maven project
- The Spring Boot auto configuration is then managed by Maven
- Maven can easily be used for compiling and packaging Spring applications

Demo 1 - Using Maven

- Dependencies in pom.xml
- Spring Starter Dependencies managed by Maven
- Project structure
- Updating dependencies
- Compiling, testing, packaging with Maven

Exercise 1 - Using Maven

- Examine a Spring Boot project and look for:
- Dependencies in pom.xml
- Project structure
- Try updating dependencies remove a starter dependency and add it again, remember to update Maven after each update
- Try using Maven to compile, clean and package the application