Setting up the Java EE Environment

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Previous Module

Understanding Java EE

Understanding Angular

Sample BookStore application

Architecture

Overview

Select an editor

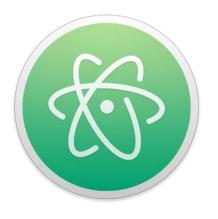Pick up a building tool

Application server

Database

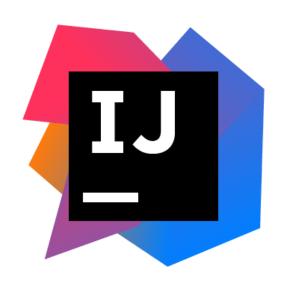Testing framework

Selecting an Editor

Intellij IDEA

Mac OS X, Linux and Windows

Supports Java EE and Angular

Java EE APIs

Testing frameworks

License vs community edition

Selecting a Building Tool

Maven

Build automation tool

Open source

Describes how software is built

Describes software dependencies

pom.xml

Selecting an Application Server

WildFly

Community and open source

Runs on multiple platform

Mature

Implements Java EE

Modular

Lightweight

Selecting a Database

H2

Very fast

Small footprint

In-memory embedded mode

Good for development

Open source

Selecting a Testing Framework

JUnit

Unit test framework

Created in 1997

Test -driven development (TDD)

Mock external dependencies

Arquillian

- Integration test framework
- Execute tests inside a container
- Perfect for Java EE
- Use container dependencies and services
- Client tests outside a container

Demo

JDK

Maven

Wildfly

Summary

Intellij IDEA

Maven

WildFly

H2

JUnit

Arquillian

Next Module

Maven archetype

Bootstrap a Java EE application

Compile and package

Deploy into WildFly