



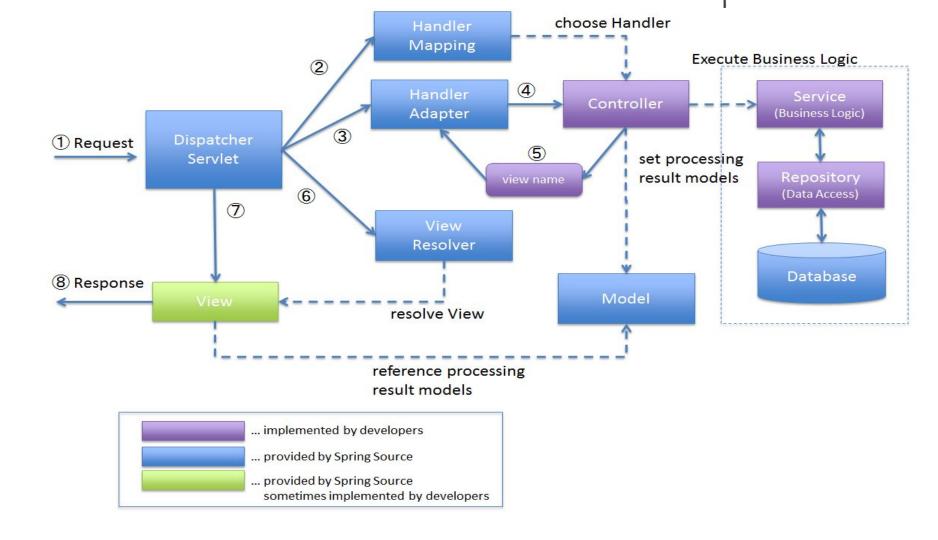


What is Spring Framework?

Series of technologies that make building web applications using Java simpler and more streamlined

- Manages instantiation of objects & connects them the way they are intended to work—efficiently
- Provides database connectivity through API & Services





Setting Up Your Environment

Installing Spring Tool Suite or Add-On



Spring Tool Suite

Go to this site, then:

- Determine which installation method is most appropriate for you
 - o Spring Suite?
 - IDE plug-in?



THE STS Interface

Explorer / Navigation Pane

• File paths

Workspace

 Where files are edited

Document Outline

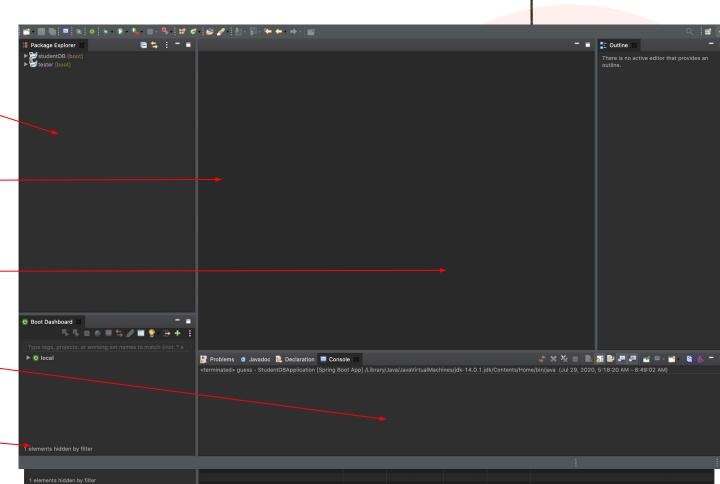
Specific document sections

Console

Command-Line UI

Boot Dashboard

 find servers & other services



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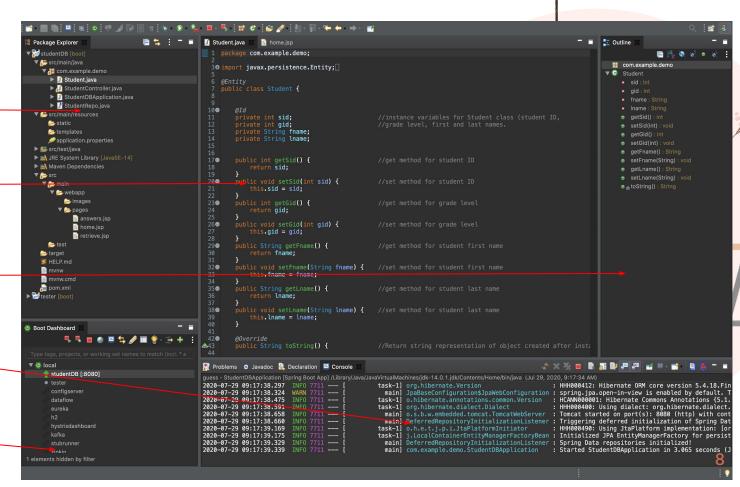
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Creating Your Project

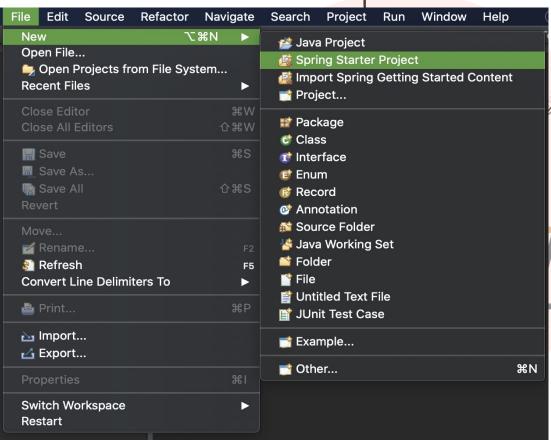
Packages with Dependencies



Start A New "Starter Project"

Steps

- Go to File
- ✓ Select New
- Select Spring StarterProject



Name Your Project

Steps

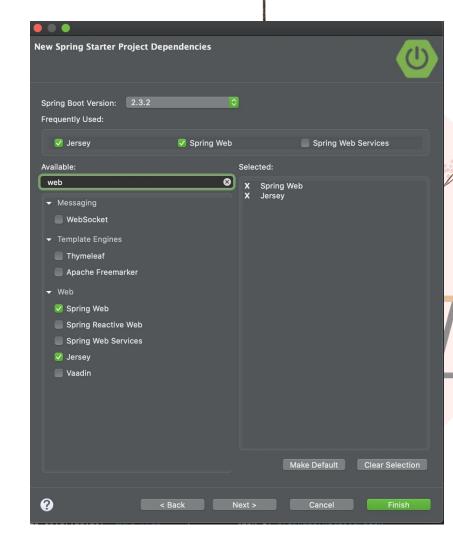
- Give your project aname
- Select Java v. 14 (or whatever version you have)
- Select Next



Select Your "dependencies"

Steps

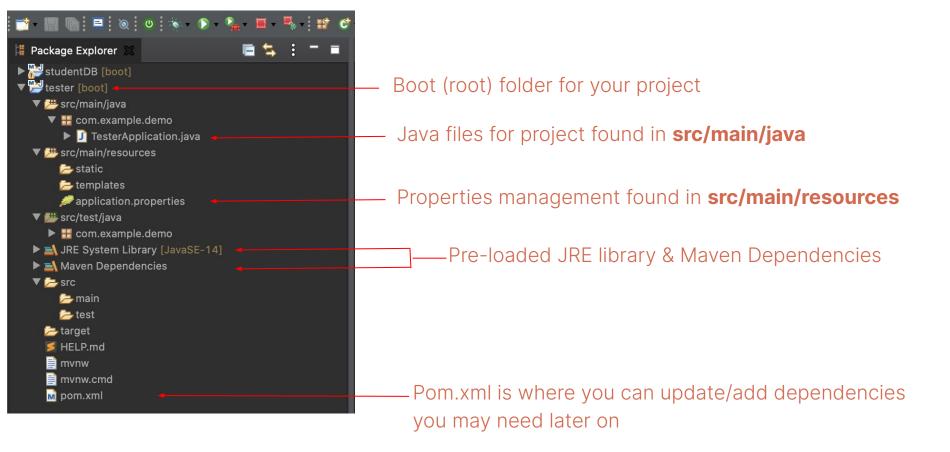
- Type in "web" in the "Available:" search bar
- Under "web" check off
 Spring Web and
 Jersey
- ✓ Select Finish



Navigation & Paths

Understanding the Package Explorer







How do you read the base file?

- ✓ This file is your first Java File.
- You can run a hello world to see how it works, but more than likely it will become your controller file.
- This file "runs" your program.

```
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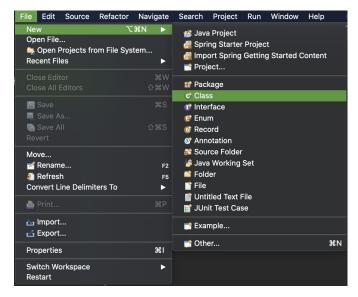
■ TesterApplication.java
Package Explorer
 studentDB [boot]
                                                       package com.example.demo;
▼ 🔛 tester [boot]
                                                       30 import org.springframework.boot.SpringApplication;
  ▼ # src/main/java
     ▼ # com.example.demo
                                                          @SpringBootApplication
       ► J TesterApplication.java
                                                          public class TesterApplication {
  ▼ # src/main/resources
                                                               public static void main(String[] args) {
       static =
                                                                   SpringApplication.run(TesterApplication.class, args);
      templates :
      application.properties
                                                      13 }
  ▼ # src/test/iava
     ▶ 

com.example.demo
  ▶ ■ JRE System Library [JavaSE-14]
  ▶ 

Maven Dependencies
  ▼ 🗁 src
       i main
       test =
    target 🚐
     MELP.md
```



How do you create new files?

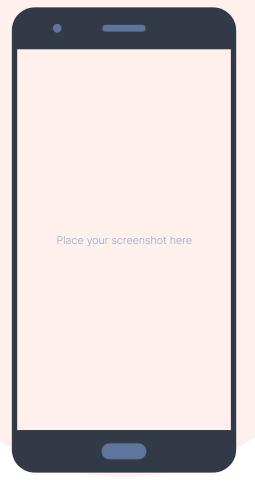


- ✓ Go to File
- Select New
- Scroll down to Class
- ✓ Name the class whatever you deem appropriate



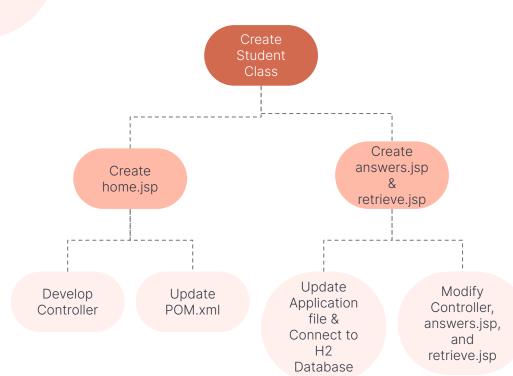


Mobile App project



- Create the Skeleton Java Class
- Create the HTML Interface
- Develop the DatabaseConnection
- ✓ Launch your first WebAPP!!!

Project Overview





Time Expenditure Overview

TOPIC	#of Classes	Class Day
Introduction & Set Up (including "hello world" Test)	1	1
Create Student Class	<1	2
Create JSP files (including mini teach on HTML)	<1	2
Develop Controller Class (including mini teach on annotations)	1	3
Update POM XML (including mini-teach on Maven Repo & Library/Dependency version look-up)	1	4
Update Application & Connect to H2 (including mini teach on properties & UI)	1	5
Update Controller & JSP Files (including mini teach on annotations)	1	6
Individual Web App (Students ideate and create their own APP or expand the one started in class)	4	7-11





Thanks!

Any questions?

You can find me at:

- ✓ sabiustech@gmail.com
- ✓ slack

