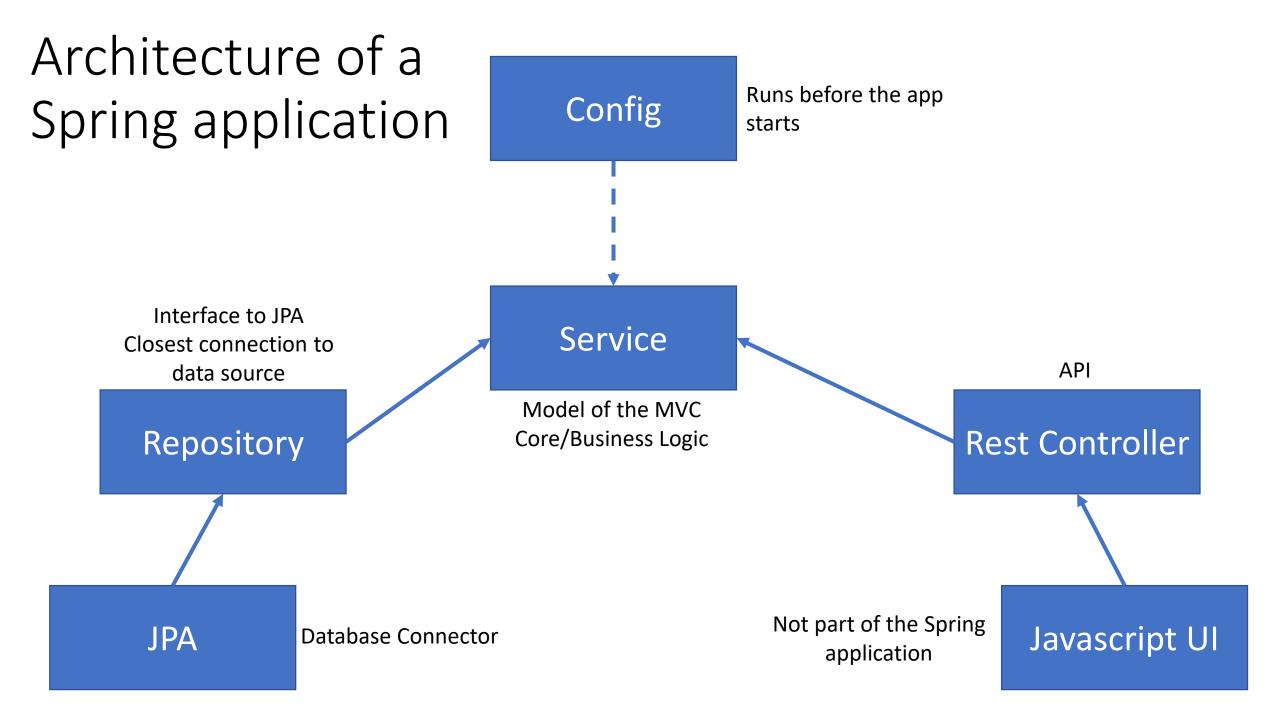
## The Spring Framework

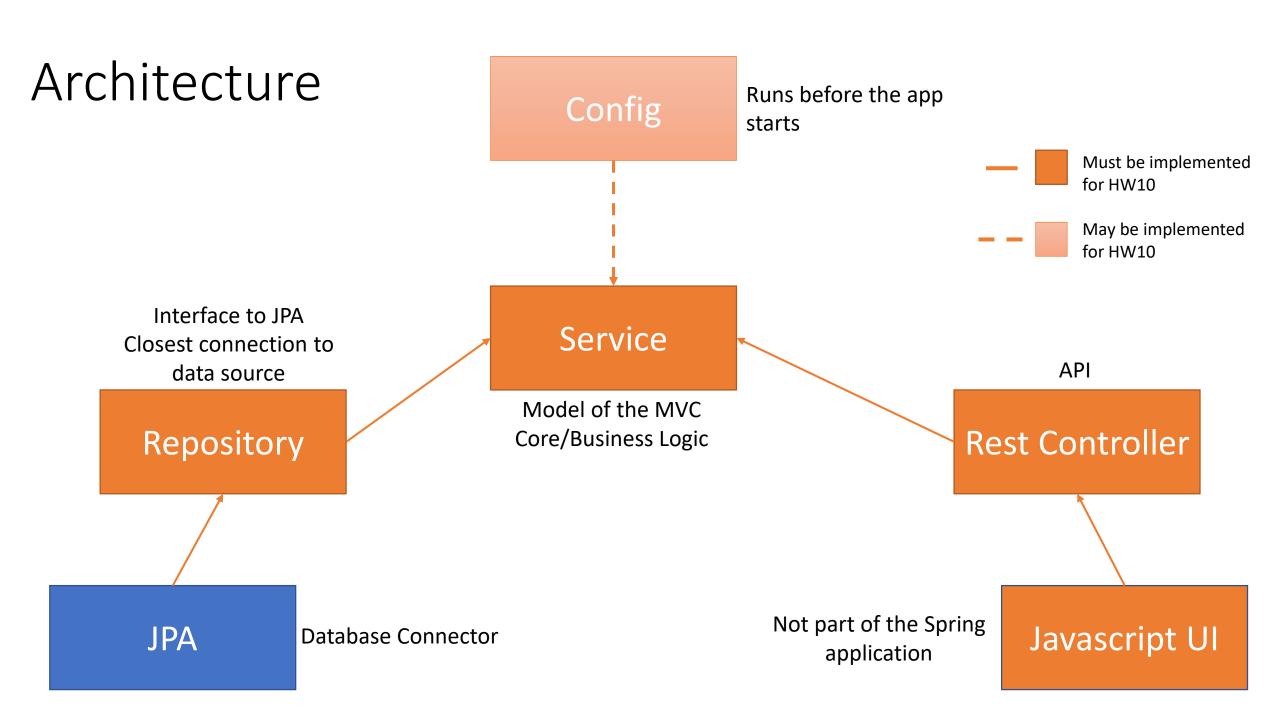
**CSE 331** 

University of Washington

## What is the Spring Framework?

- Spring is an application framework for Java
  - Provides standard functionality so you don't have to
  - Contains extensions for web applications
- Libraries vs frameworks:
  - Using a library: your code owns main and makes calls to the library
  - Using a framework: the framework owns main and makes callbacks to your code
- Today's lecture: demo a web application that manages subscribers to a mailing list





Each **module** is a Java class

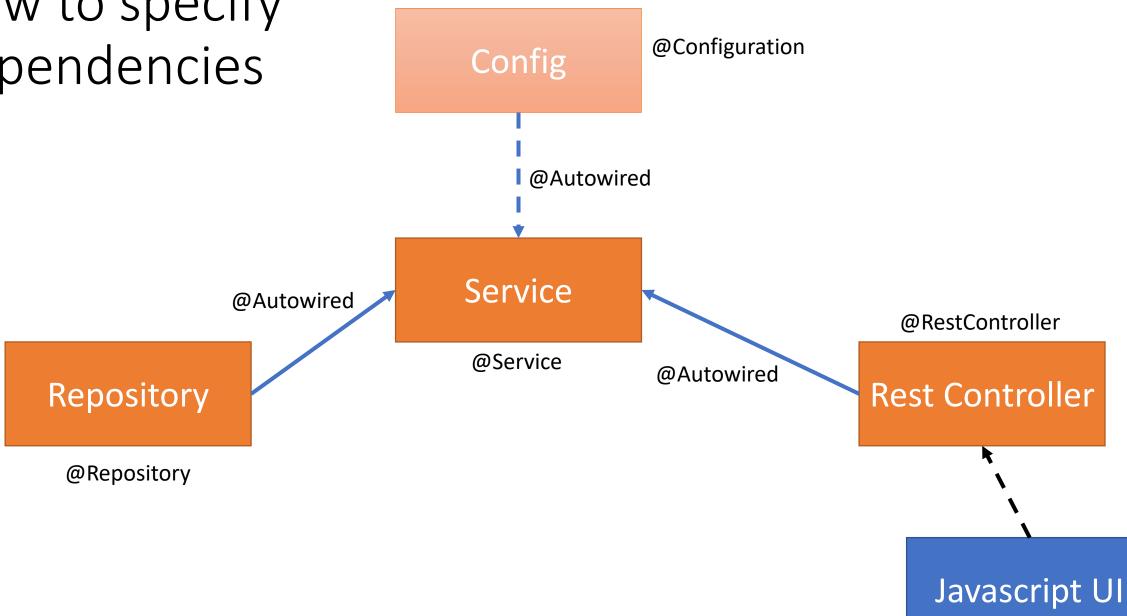
In an ordinary application, each **arrow**  $A \rightarrow B$  represents:

- A has a field of type B
  - You need to set it
- A has a parameter or return of type B
  - You need to make the call

In Spring, you write annotations

Spring finds the appropriate objects, sets fields, and makes calls for you

## How to specify dependencies



Campus Paths does not use a database

Service

Config

Repository

Since we don't use a database, you will have to implement your own repository (Data Parser?)

**Rest Controller** 

Javascript UI