Why use Angular?

- Single page applications better user experience
 - Improved speed and performance
- Developer advantages
 - Re-use code (for example, re-using a Nav component)
 - Utilize OOP concepts (Components themselves, .ts file is a class w/ properties, functions, etc)
 - Every component has properties and behaviors
 - Databinding abstracts the process of modifying what is displayed on the screen
- Modern technologies are mainly about abstracting away "what is under the hood"

Abstraction examples (not to be confused with 4 pillars of OOP)

- Angular: abstracts away event listeners, AJAX (http requests), DOM Manipulation
- Java: abstracts away having to write lower level code such as assembly or even pure binary (0 and 1s)
- Hibernate: abstracts away JDBC (Java Database Connectivity)
 - ORM (object relational mapper): maps objects to rows in a database table
 - Ex. User objects can be added to the corresponding user table in the database without having to worry about using the INSERT keyword syntax

The objective for today

- Establish the fundamentals of Hibernate
- Establish the fundamentals for Spring
 - A framework made of many different modules
 - Normally in the past, we would have had to put together all of these modules ourselves and have extensive configuration for them
- Once we have established the fundamentals of Hibernate and Spring...
 - Spring Boot
 - What is known as a "Spring project"
 - Heavily used in Java development
 - A template for Java-based projects utilizing the idea of "convention over configuration"
 - We stick with a certain convention that requires less configuration than if we were to put together everything independently
 - Once we get into Spring boot, we'll be using Spring web (a module)
 - Allows us to map endpoints
 - Spring Data (another module)
 - Comes with Hibernate