**ASYNC ACTIVITY 2 - JAVA-WEB-3**

**Spring Data JPA  - Google Scavenger Hunt**

**Purpose:** You have been completing activities and following tutorials for these spring boot sessions, but may find yourself copy and pasting or just entering in code that you do not fully understand. This exercise is for you to either define terms in your own words if you understand them, or to Google and research the term and then define it in your own words, to help with understanding, as well as have a guide to reference for the future.

**Instructions:** **MAKE A COPY OF THIS DOCUMENT.** Define each term below in your own words *(make sure you are researching these things in relation to Java / Spring Boot)*, using Google or peers for help if you need it. Most of these terms were used in ASYNC ACTIVITY 1, or throughout Spring tutorials you have seen thus far. Submit this link, along with the previous activity, to the discussion board: [Found Here](https://generation.instructure.com/courses/308/discussion_topics/13649)

1. What is the ‘src’ folder?

The ‘src’ folder is where the main program code is contained.

1. What is a package?

A package is used to group related classes. Similar to a folder.

1. What is an interface?

An Interface is an abstract class used to specify the behavior of a class that implements it.

1. What is an H2 database?

H2 is a relational database management system written in Java. It can be embedded in Java applications or run-in client-server mode

1. @Entity – represents a table in a relational database, and each entity instance corresponds to a row in that table.
2. @Id – Specifies the primary key of an entity.
3. @GeneratedValue – annotation tells the ORM how to figure out the value of that field.
4. @Repository – is a marker for any class that fulfils the role or stereotype of a repository.
5. @SpringBootApplication – is used to mark a configuration class that declares one or more @Bean methods and also triggers auto-configuration and component scanning.
6. ConfigurableApplicationContext – Provides facilities to configure an application context in addition to the application context client methods in the ApplicationContext interface
7. Explain what the following code is doing:

ReptileRepository reptileRepository =

     configurableApplicationContext.getBean(ReptileRepository.class);

Reptile komodoDragon = new Reptile("Dennis", "Lizard", "Brown", "Carnivore");

reptileRepository.saveAll(List.*of*(kingCobra, komodoDragon));

The code is retrieving the reptile repository bean and creating a Reptile object called “komodoDragon”. Then the “komodoDragon” object is saved into the reptile repository.