Section 3: Spring Exercises

Module 11: Dependency Injection

Exercise 11.1 – Spring Hello World

The Setup:

The main objective of this exercise is to test Spring by creating a simple Spring application that prints "Hello World" to the console.

Create a new Maven Java project called **exercise11_1**. Then open the pom.xml and add the following dependencies:

The Exercise:

Create a class called Greeting with the following contents:

```
package cs544.exercise11 1;
public class Greeting {
       private String greeting;
       public Greeting() {}
       public Greeting(String greeting) {
               this.greeting=greeting;
       public void sayHello() {
               System.out.println(greeting);
       public void setGreeting(String greeting) {
               this.greeting = greeting;
                                                           exercise 11.1
                                                                                      Source History | [♣] ▼ [□]
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                                                                                           * To change thi
                                                                  App.java
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                                                                  Greeting.java
                                                                                           * and open the
                                                             □ 🚡 Test Packages
Next create an XML file called springconfig.xml
                                                               E cs544.exercise11_1
                                                                                          package cs544.ex
                                                             Other Sources
inside Other Sources \rightarrow src/main/resources \rightarrow
                                                              8 - /**
                                                                 default package
                                                                                        Java Class...
                                                             ⊕ 🍒 Dependencies
                                                                          New
                                                             Test Dependen
                                                                                    Ctrl+F S XML Docum
```

Your springconfig.xml file should contain the following xml:

Then update the automatically generated App.java to hold the following code:3

You can run App.java, and it should give the following output:

```
log4j:WARN No appenders could be found for logger
(org.springframework.core.env.StandardEnvironment).
log4j:WARN Please initialize the log4j system properly.
log4j:WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info.
Hello World
```

To get rid of the log4j warnings add the following log4j.properties file to **Other Sources** → src/main/resources → default package

```
### direct log messages to stdout ###
log4j.appender.stdout=org.apache.log4j.ConsoleAppender
log4j.appender.stdout.Target=System.out
log4j.appender.stdout.layout=org.apache.log4j.PatternLayout
log4j.appender.stdout.layout.ConversionPattern=%d{ABSOLUTE} %5p %c{1}:%L - %m%n
### set log levels - for more verbose logging change 'info' to 'debug' ###
log4j.rootLogger=warn, stdout
```