Source code for phase-5 project Simplilearn—

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CicdAppliedToSpringBootJavaAppApplication.java—

```
package com.cicd.cicdappliedtospringbootjavaapp;
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class CicdAppliedToSpringBootJavaAppApplication {

    public static void main(String[] args) {
        SpringApplication.run(CicdAppliedToSpringBootJavaAppApplication.class, args);
    }
}
```



```
ackage com.cicd.cicdappliedtospringbootjavaapp;
```

Hellocontroller.java ---

```
package com.cicd.cicdappliedtospringbootjavaapp.controller;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;

@RestController
public class HelloController {

    @GetMapping("/")
    public String home() {
        return "Hello World from DZONE";
    }
}
```

Pom.xml -(description file)=>

```
<?xml version="1.0" encoding="UTF-8"?>
ct xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0"
https://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <parent>
        <groupId>org.springframework.boot
        <artifactId>spring-boot-starter-parent</artifactId>
        <version>2.1.8.RELEASE
        <relativePath/> <!-- lookup parent from repository -->
    </parent>
    <groupId>com.cicd
    <artifactId>cicd-applied-to-spring-boot-java-app</artifactId>
    <packaging>jar</packaging>
    <version>0.0.1-SNAPSHOT
    <name>cicd-applied-to-spring-boot-java-app</name>
    <description>Implementing CI/CD on Spring Boot Java App</description>
    properties>
       <java.version>1.8</java.version>
       cproject.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
       cproject.reporting.outputEncoding>UTF-
8</project.reporting.outputEncoding>
       <docker.image.prefix>fanjups</docker.image.prefix>
       <maven.deploy.skip>true</maven.deploy.skip>
       <github.global.server>github/github.global.server>
       <github.global.oauth2Token>${env.GITHUB_OAUTH_TOKEN}</github.global.oa</pre>
uth2Token>
```

```
<full-artifact-name>target/${project.artifactId}-
${project.version}.jar</full-artifact-name>

    <dependencies>
        <dependency>
           <groupId>org.springframework.boot
           <artifactId>spring-boot-starter-web</artifactId>
       </dependency>
        <dependency>
           <groupId>org.springframework.boot
           <artifactId>spring-boot-starter-test</artifactId>
           <scope>test</scope>
        </dependency>
    </dependencies>
    <build>
       <plugins>
           <plugin>
               <groupId>org.springframework.boot
               <artifactId>spring-boot-maven-plugin</artifactId>
           </plugin>
           <plugin>
               <groupId>com.spotify</groupId>
               <artifactId>dockerfile-maven-plugin</artifactId>
               <version>1.4.9
               <executions>
                   <execution>
                       <id>default</id>
                       <phase>install</phase>
                       <goals>
                           <goal>build</goal>
                           <goal>push</goal>
                       </goals>
                   </execution>
               </executions>
               <configuration>
                   <repository>${docker.image.prefix}/${project.artifactId}
repository>
                   <serverId>index.docker.io</serverId>
               <registryUrl>https://index.docker.io:443/v1/</registryUrl>
```

```
</configuration>
            </plugin>
            <plugin>
                <groupId>org.apache.maven.plugins
                <artifactId>maven-dependency-plugin</artifactId>
                <executions>
                    <execution>
                        <id>unpack</id>
                        <phase>package</phase>
                        <goals>
                            <goal>unpack</goal>
                        </goals>
                        <configuration>
                            <artifactItems>
                                <artifactItem>
                                    <groupId>${project.groupId}</groupId>
                                    <artifactId>${project.artifactId}</artifact</pre>
tId>
                                   <version>${project.version}</version>
                                </artifactItem>
                            </artifactItems>
                        </configuration>
                    </execution>
                </executions>
            </plugin>
            <plugin>
                <groupId>org.jacoco
                <artifactId>jacoco-maven-plugin</artifactId>
                <version>0.7.7.201606060606
                <executions>
                    <execution>
                        <goals>
                            <goal>prepare-agent</goal>
                        </goals>
                    </execution>
                    <execution>
                        <id>report</id>
                       <phase>test</phase>
```

```
<goals>
                            <goal>report</goal>
                       </goals>
                   </execution>
                </executions>
            </plugin>
            <plugin>
                <groupId>org.apache.maven.plugins
                <artifactId>maven-site-plugin</artifactId>
            </plugin>
            <plugin>
                <groupId>com.github.github
                <artifactId>site-maven-plugin</artifactId>
                <version>0.12</version>
                <configuration>
                    <message>Building site for ${project.name}
${project.version}</message>
                   <server>github</server>
                </configuration>
                <executions>
                   <execution>
                       <goals>
                           <goal>site</goal>
                       </goals>
                       <phase>site</phase>
                   </execution>
                </executions>
            </plugin>
            <plugin>
              <groupId>com.heroku.sdk
              <artifactId>heroku-maven-plugin</artifactId>
              <version>2.0.11</version>
              <configuration>
                <appName>cicd-spring-boot-java-app</appName>
                cprocessTypes>
                  <web>java $JAVA_OPTS -jar -Dserver.port=$PORT ${full-
artifact-name}</web>
                </processTypes>
             </configuration>
```

```
</plugin>
   </plugins>
</build>
<reporting>
   <plugins>
       <plugin>
           <groupId>org.apache.maven.plugins
           <artifactId>maven-project-info-reports-plugin</artifactId>
           <version>3.0.0</version>
           <reportSets>
               <reportSet>
                   <reports>
                       <report>index</report>
                       <report>licenses</report>
                       <report>dependency-info</report>
                       <report>ci-management</report>
                       <report>dependencies</report>
                       <report>dependency-convergence</report>
                       <report>dependency-management</report>
                       <report>distribution-management</report>
                       <report>help</report>
                       <report>issue-management</report>
                       <report>mailing-lists</report>
                       <report>modules</report>
                       <report>plugin-management</report>
                       <report>plugins</report>
                       <report>team</report>
                       <report>scm</report>
                       <report>summary</report>
                   </reports>
               </reportSet>
           </reportSets>
       </plugin>
      <plugin>
            <groupId>org.apache.maven.plugins
           <artifactId>maven-javadoc-plugin</artifactId>
           <version>3.1.1
```

```
</plugin>
        </plugins>
  </reporting>
  clicenses>
        clicense>
            <name>MIT License</name>
            <url>http://www.opensource.org/licenses/mit-license.php</url>
            <distribution>repo</distribution>
        </license>
    </licenses>
  <developers>
    <developer>
        <email>ronakvyas03@gmail.com</email>
        <name>Fanon Jupkwo</name>
        <url>https://github.com/ronvyas</url>
        <id>FanJups</id>
    </developer>
  </developers>
  <organization>
        <name>FAN JUPS TECH
        <url>https://github.com/ronvyas/</url>
    </organization>
  <issueManagement>
        <system>GitHub Issues
        <url>https://github.com/ronvyas/cicd-applied-to-spring-boot-java-
app/issues</url>
  </issueManagement>
  <scm>
        <url>https://github.com/FanJups/cicd-applied-to-spring-boot-java-
app</url>
        <connection>scm:git:git://github.com/FanJups/cicd-applied-to-spring-
boot-java-app.git</connection>
        <developerConnection>scm:git:git://github.com/ronvyas/cicd-applied-to-
spring-boot-java-app.git</developerConnection>
  </scm>
</project>
```

Dockerfile—

```
# Add Maintainer Info
LABEL maintainer="ronakvyas03@gmail.com"

# Add a volume pointing to /tmp
VOLUME /tmp

# Make port 8080 available to the world outside this container
EXPOSE 8080

# The application's jar file
ARG JAR_FILE

# Add the application's jar to the container
ADD ${JAR_FILE} app.jar

# Run the jar file
ENTRYPOINT ["java","-Djava.security.egd=file:/dev/./urandom","-
jar","/app.jar"]
```

Sonarproject -

```
sonar.projectKey=FanJups_cicd-applied-to-spring-boot-java-app
```

Travis.yml (source file)---

```
#we use java
language: java

#we add the java development kit (jdk)
jdk:
- openjdk8
services:
#Linking Travis CI and Docker
- docker
```

```
addons:
  sonarcloud:
    organization: "cicd-applied-to-spring-boot-java-app"
      secure: $SONAR TOKEN # encrypted value of your token
before_install:
- mvn clean
- echo "$DOCKER_PASSWORD" | docker login -u "$DOCKER_USERNAME" --password-

    docker pull openjdk:8-jdk-alpine

script:
- echo -e '<?xml version="1.0" encoding="UTF-8"?>\n<settings</pre>
xsi:schemaLocation="http://maven.apache.org/SETTINGS/1.1.0
http://maven.apache.org/xsd/settings-1.1.0.xsd"
xmlns="http://maven.apache.org/SETTINGS/1.1.0"\n
                                                   xmlns:xsi="http://www.w3.o
rg/2001/XMLSchema-instance">\n <mirror>\n <mirror>\n
                                                               <id>mvnsearch-
unavailable</id>\n
                        <name>mvnsearch-
unavailable</name>\n
                          <mirrorOf>mvnsearch</mirrorOf>\n
                                                                <url>http://re
po1.maven.org/maven2</url>\n </mirror>\n </mirrors>\n cprefiles>\n
ofile>\n
              <id>no-
mvnsearch</id>\n
                      <repositories>\n
                                              <repository>\n
                                                                      <id>mvns
earch</id>\n
                      <url>http://www.mvnsearch.org/maven2</url>\n
                                                                             <r
eleases>\n
                      <enabled>true</enabled>\n
                                                         </releases>\n
 <snapshots>\n
                          <enabled>true</enabled>\n
                                                             </snapshots>\n
                          </repositories>\n </profile>\n </profiles>\n <a</pre>
     </repository>\n
ctiveProfiles>\n
                   <activeProfile>no-
mvnsearch</activeProfile>\n </activeProfiles>\n</settings>' >
$HOME/.m2/settings.xml
- cat $HOME/.m2/settings.xml
- mvn heroku:deploy
after_success:
- travis wait mvn site
- bash <(curl -s https://codecov.io/bash)</pre>

    mvn clean org.jacoco:jacoco-maven-plugin:prepare-agent install sonar:sonar
```

Github Link -- https://github.com/sachinskale127/Java_FSD_Phase5_Project