

Developer details

Name: Baba Mantyusi

Company: Deviare

Project name: CI/CD Deployment for Springboot Application.

```
package com.cicd.cicdappliedtospringbootjavaapp;

import org.junit.Assert;
import org.junit.Test;
import org.junit.runner.RunWith;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;

import org.springframework.test.context.junit4.SpringRunner;

import com.cicd.cicdappliedtospringbootjavaapp.controller.HelloController;

@RunWith(SpringRunner.class)
@SpringBootTest

public class CicdAppliedToSpringBootJavaAppApplicationTests {

    @Autowired
    private HelloController helloController;

    @Test
    public void contextLoads() {

        Assert.assertEquals("Hello World from DZONE",helloController.home() );
    }

}
```

Pom.xml

```
12:18 14-02-2022<?xml version="1.0" encoding="UTF-8"?>
<project 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</groupId>
  <artifactId>spring-boot-starter-parent</artifactId>
  <version>2.1.8.RELEASE</version>
  <relativePath/> <!-- Lookup parent from repository -->
</parent>
<groupId>com.cicd</groupId>
<artifactId>cicd-applied-to-spring-boot-java-app</artifactId>
<packaging>jar</packaging>
<version>0.0.1-SNAPSHOT</version>
<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>

  <!-- solving error : Invalid or corrupt jarfile /app.jar -->

  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <project.reporting.outputEncoding>UTF-
8</project.reporting.outputEncoding>

  <maven.deploy.skip>true</maven.deploy.skip>

  <github.global.server>github</github.global.server>
  <github.global.oauth2Token>${env.GITHUB_OAUTH_TOKEN}</github.global.oauth
2Token>

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

</properties>

<dependencies>
  <dependency>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-web</artifactId>
  </dependency>

  <dependency>
    <groupId>org.springframework.boot</groupId>

```

```

        <artifactId>spring-boot-starter-test</artifactId>
        <scope>test</scope>
    </dependency>
</dependencies>

<build>
    <plugins>
        <plugin>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-maven-plugin</artifactId>
        </plugin>

        <plugin>
            <groupId>com.spotify</groupId>
            <artifactId>dockerfile-maven-plugin</artifactId>
            <version>1.4.9</version>
            <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}</rep
ository>

                <serverId>index.docker.io</serverId>
                <registryUrl>https://index.docker.io:443/v1/</registryUrl>
            </configuration>
        </plugin>

        <!-- maven-dependency-plugin useful for creating docker image -->

        <plugin>

            <groupId>org.apache.maven.plugins</groupId>
            <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}</artifactId>

                    <version>${project.version}</version>
                </artifactItem>
            </artifactItems>
        </configuration>
    </execution>

</executions>

</plugin>

<!-- jacoco-maven-plugin useful for Codecov -->

<plugin>
    <groupId>org.jacoco</groupId>
    <artifactId>jacoco-maven-plugin</artifactId>
    <version>0.7.7.201606060606</version>
    <executions>
        <execution>
            <goals>
                <goal>prepare-agent</goal>
            </goals>
        </execution>
        <execution>
            <id>report</id>
            <phase>test</phase>
            <goals>
                <goal>report</goal>
            </goals>
        </execution>
    </executions>
</plugin>

<!-- Generating github gh pages & maven project documents -->

```

```

    <plugin>

        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-site-plugin</artifactId>
    </plugin>

    <plugin>
        <groupId>com.github.github</groupId>
        <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>

    <!-- Useful for Heroku Deployment -->

    <plugin>
        <groupId>com.heroku.sdk</groupId>
        <artifactId>heroku-maven-plugin</artifactId>
        <version>2.0.11</version>
        <configuration>
            <appName>cicd-spring-boot-java-app</appName>
            <processTypes>
                <web>java $JAVA_OPTS -jar -Dserver.port=$PORT ${full-artifact-
name}</web>
            </processTypes>
        </configuration>
    </plugin>

</plugins>
</build>

```

```
<!-- Useful for GitHub site -->
```

```
<reporting>
```

```
  <plugins>
```

```
    <plugin>
```

```
      <groupId>org.apache.maven.plugins</groupId>
```

```
      <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</groupId>
```

```
      <artifactId>maven-javadoc-plugin</artifactId>
```

```
      <version>3.1.1</version>
```

```
    </plugin>
```

```
        </plugins>

</reporting>

<licenses>
    <license>
        <name>MIT License</name>
        <url>http://www.opensource.org/licenses/mit-license.php</url>
        <distribution>repo</distribution>
    </license>
</licenses>

<developers>
    <developer>
        <email>doctormantyusi@gmail.com</email>
        <name>Baba Mantyusi </name>
        <id>HapLop</id>
    </developer>
</developers>

<issueManagement>
    <system>GitHub Issues</system>
</issueManagement>

</project>
```