**Phase 5 project**

**CI/CD Deployment for Spring boot Application**

**SOURCE CODE**

**Src/main/java/com/SpringTest/SpringApplication.java:**

**package** com.SpringTest;

**import** org.slf4j.Logger;

**import** org.slf4j.LoggerFactory;

**import** org.springframework.boot.SpringApplication;

**import** org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

**public** **class** SpringJenkinsApplication {

**public** **static** Logger log = LoggerFactory.getLogger(SpringJenkinsApplication.**class**);

**public** **void** init() {

log.info("Spring Boot Application Started.......");

}

**public** **static** **void** main(String[] args) {

log.info("Application Executed .......");

SpringApplication.run(SpringJenkinsApplication.**class**, args);

}

}

**Src/test/java/com/SpringTest/SpringAplicationTest.java:**

package com.SpringTest;

import org.junit.jupiter.api.Test;

import org.slf4j.Logger;

import org.slf4j.LoggerFactory;

import org.springframework.boot.test.context.SpringBootTest;

@SpringBootTest

class SpringJenkinsApplicationTests {

public static Logger log = LoggerFactory.getLogger(SpringJenkinsApplication.class);

@Test

void contextLoads() {

log.info("Spring Test Case Executing......");

}

}

**META-INF/maven/com.SpringTest/Testing-Spring-Jenkins/pom.properties:**

#Generated by Maven Integration for Eclipse

#Tue May 10 13:03:45 IST 2022

m2e.projectLocation=C:\Users\v n pramod\Desktop\phase5\project-5\CI-CD-Deployment-for-Springboot-Application

m2e.projectName=Spring-Jenkins

groupId=com.SpringTest

artifactId=Testing-Spring-Jenkins

version=0.0.1-SNAPSHOT

**META-INF/maven/com.SpringTest/Testing-Spring-Jenkins/pom.xml:**

<?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>2.5.4</version>

<relativePath/> <!-- lookup parent from repository -->

</parent>

<groupId>com.SpringTest</groupId>

<artifactId>Testing-Spring-Jenkins</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>Spring-Jenkins</name>

<description> Spring Boot -Jenkins</description>

<properties>

<java.version>11</java.version>

</properties>

<dependencies>

<dependency>

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

<artifactId>spring-boot-starter-thymeleaf</artifactId>

</dependency>

<dependency>

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

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<dependency>

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

<artifactId>spring-boot-devtools</artifactId>

<scope>runtime</scope>

<optional>true</optional>

</dependency>

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<scope>runtime</scope>

</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>

</plugins>

</build>

</project>

**MANIFEST.MF:**

Manifest-Version: 1.0

Build-Jdk-Spec: 13

Implementation-Title: Spring-Jenkins

Implementation-Version: 0.0.1-SNAPSHOT

Created-By: Maven Integration for Eclipse

**Maven-archiver/pom.properties:**

artifactId=Testing-Spring-Jenkins

groupId=com.SpringTest

version=0.0.1-SNAPSHOT

**mvnw:**

#!/bin/sh

# ----------------------------------------------------------------------------

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# ----------------------------------------------------------------------------

# ----------------------------------------------------------------------------

# Maven Start Up Batch script

#

# Required ENV vars:

# ------------------

# JAVA\_HOME - location of a JDK home dir

#

# Optional ENV vars

# -----------------

# M2\_HOME - location of maven2's installed home dir

# MAVEN\_OPTS - parameters passed to the Java VM when running Maven

# e.g. to debug Maven itself, use

# set MAVEN\_OPTS=-Xdebug -Xrunjdwp:transport=dt\_socket,server=y,suspend=y,address=8000

# MAVEN\_SKIP\_RC - flag to disable loading of mavenrc files

# ----------------------------------------------------------------------------

if [ -z "$MAVEN\_SKIP\_RC" ] ; then

if [ -f /etc/mavenrc ] ; then

. /etc/mavenrc

fi

if [ -f "$HOME/.mavenrc" ] ; then

. "$HOME/.mavenrc"

fi

fi

# OS specific support. $var \_must\_ be set to either true or false.

cygwin=false;

darwin=false;

mingw=false

case "`uname`" in

CYGWIN\*) cygwin=true ;;

MINGW\*) mingw=true;;

Darwin\*) darwin=true

# Use /usr/libexec/java\_home if available, otherwise fall back to /Library/Java/Home

# See https://developer.apple.com/library/mac/qa/qa1170/\_index.html

if [ -z "$JAVA\_HOME" ]; then

if [ -x "/usr/libexec/java\_home" ]; then

export JAVA\_HOME="`/usr/libexec/java\_home`"

else

export JAVA\_HOME="/Library/Java/Home"

fi

fi

;;

esac

if [ -z "$JAVA\_HOME" ] ; then

if [ -r /etc/gentoo-release ] ; then

JAVA\_HOME=`java-config --jre-home`

fi

fi

if [ -z "$M2\_HOME" ] ; then

## resolve links - $0 may be a link to maven's home

PRG="$0"

# need this for relative symlinks

while [ -h "$PRG" ] ; do

ls=`ls -ld "$PRG"`

link=`expr "$ls" : '.\*-> \(.\*\)$'`

if expr "$link" : '/.\*' > /dev/null; then

PRG="$link"

else

PRG="`dirname "$PRG"`/$link"

fi

done

saveddir=`pwd`

M2\_HOME=`dirname "$PRG"`/..

# make it fully qualified

M2\_HOME=`cd "$M2\_HOME" && pwd`

cd "$saveddir"

# echo Using m2 at $M2\_HOME

fi

# For Cygwin, ensure paths are in UNIX format before anything is touched

if $cygwin ; then

[ -n "$M2\_HOME" ] &&

M2\_HOME=`cygpath --unix "$M2\_HOME"`

[ -n "$JAVA\_HOME" ] &&

JAVA\_HOME=`cygpath --unix "$JAVA\_HOME"`

[ -n "$CLASSPATH" ] &&

CLASSPATH=`cygpath --path --unix "$CLASSPATH"`

fi

# For Mingw, ensure paths are in UNIX format before anything is touched

if $mingw ; then

[ -n "$M2\_HOME" ] &&

M2\_HOME="`(cd "$M2\_HOME"; pwd)`"

[ -n "$JAVA\_HOME" ] &&

JAVA\_HOME="`(cd "$JAVA\_HOME"; pwd)`"

fi

if [ -z "$JAVA\_HOME" ]; then

javaExecutable="`which javac`"

if [ -n "$javaExecutable" ] && ! [ "`expr \"$javaExecutable\" : '\([^ ]\*\)'`" = "no" ]; then

# readlink(1) is not available as standard on Solaris 10.

readLink=`which readlink`

if [ ! `expr "$readLink" : '\([^ ]\*\)'` = "no" ]; then

if $darwin ; then

javaHome="`dirname \"$javaExecutable\"`"

javaExecutable="`cd \"$javaHome\" && pwd -P`/javac"

else

javaExecutable="`readlink -f \"$javaExecutable\"`"

fi

javaHome="`dirname \"$javaExecutable\"`"

javaHome=`expr "$javaHome" : '\(.\*\)/bin'`

JAVA\_HOME="$javaHome"

export JAVA\_HOME

fi

fi

fi

if [ -z "$JAVACMD" ] ; then

if [ -n "$JAVA\_HOME" ] ; then

if [ -x "$JAVA\_HOME/jre/sh/java" ] ; then

# IBM's JDK on AIX uses strange locations for the executables

JAVACMD="$JAVA\_HOME/jre/sh/java"

else

JAVACMD="$JAVA\_HOME/bin/java"

fi

else

JAVACMD="`which java`"

fi

fi

if [ ! -x "$JAVACMD" ] ; then

echo "Error: JAVA\_HOME is not defined correctly." >&2

echo " We cannot execute $JAVACMD" >&2

exit 1

fi

if [ -z "$JAVA\_HOME" ] ; then

echo "Warning: JAVA\_HOME environment variable is not set."

fi

CLASSWORLDS\_LAUNCHER=org.codehaus.plexus.classworlds.launcher.Launcher

# traverses directory structure from process work directory to filesystem root

# first directory with .mvn subdirectory is considered project base directory

find\_maven\_basedir() {

if [ -z "$1" ]

then

echo "Path not specified to find\_maven\_basedir"

return 1

fi

basedir="$1"

wdir="$1"

while [ "$wdir" != '/' ] ; do

if [ -d "$wdir"/.mvn ] ; then

basedir=$wdir

break

fi

# workaround for JBEAP-8937 (on Solaris 10/Sparc)

if [ -d "${wdir}" ]; then

wdir=`cd "$wdir/.."; pwd`

fi

# end of workaround

done

echo "${basedir}"

}

# concatenates all lines of a file

concat\_lines() {

if [ -f "$1" ]; then

echo "$(tr -s '\n' ' ' < "$1")"

fi

}

BASE\_DIR=`find\_maven\_basedir "$(pwd)"`

if [ -z "$BASE\_DIR" ]; then

exit 1;

fi

##########################################################################################

# Extension to allow automatically downloading the maven-wrapper.jar from Maven-central

# This allows using the maven wrapper in projects that prohibit checking in binary data.

##########################################################################################

if [ -r "$BASE\_DIR/.mvn/wrapper/maven-wrapper.jar" ]; then

if [ "$MVNW\_VERBOSE" = true ]; then

echo "Found .mvn/wrapper/maven-wrapper.jar"

fi

else

if [ "$MVNW\_VERBOSE" = true ]; then

echo "Couldn't find .mvn/wrapper/maven-wrapper.jar, downloading it ..."

fi

if [ -n "$MVNW\_REPOURL" ]; then

jarUrl="$MVNW\_REPOURL/io/takari/maven-wrapper/0.5.6/maven-wrapper-0.5.6.jar"

else

jarUrl="https://repo.maven.apache.org/maven2/io/takari/maven-wrapper/0.5.6/maven-wrapper-0.5.6.jar"

fi

while IFS="=" read key value; do

case "$key" in (wrapperUrl) jarUrl="$value"; break ;;

esac

done < "$BASE\_DIR/.mvn/wrapper/maven-wrapper.properties"

if [ "$MVNW\_VERBOSE" = true ]; then

echo "Downloading from: $jarUrl"

fi

wrapperJarPath="$BASE\_DIR/.mvn/wrapper/maven-wrapper.jar"

if $cygwin; then

wrapperJarPath=`cygpath --path --windows "$wrapperJarPath"`

fi

if command -v wget > /dev/null; then

if [ "$MVNW\_VERBOSE" = true ]; then

echo "Found wget ... using wget"

fi

if [ -z "$MVNW\_USERNAME" ] || [ -z "$MVNW\_PASSWORD" ]; then

wget "$jarUrl" -O "$wrapperJarPath"

else

wget --http-user=$MVNW\_USERNAME --http-password=$MVNW\_PASSWORD "$jarUrl" -O "$wrapperJarPath"

fi

elif command -v curl > /dev/null; then

if [ "$MVNW\_VERBOSE" = true ]; then

echo "Found curl ... using curl"

fi

if [ -z "$MVNW\_USERNAME" ] || [ -z "$MVNW\_PASSWORD" ]; then

curl -o "$wrapperJarPath" "$jarUrl" -f

else

curl --user $MVNW\_USERNAME:$MVNW\_PASSWORD -o "$wrapperJarPath" "$jarUrl" -f

fi

else

if [ "$MVNW\_VERBOSE" = true ]; then

echo "Falling back to using Java to download"

fi

javaClass="$BASE\_DIR/.mvn/wrapper/MavenWrapperDownloader.java"

# For Cygwin, switch paths to Windows format before running javac

if $cygwin; then

javaClass=`cygpath --path --windows "$javaClass"`

fi

if [ -e "$javaClass" ]; then

if [ ! -e "$BASE\_DIR/.mvn/wrapper/MavenWrapperDownloader.class" ]; then

if [ "$MVNW\_VERBOSE" = true ]; then

echo " - Compiling MavenWrapperDownloader.java ..."

fi

# Compiling the Java class

("$JAVA\_HOME/bin/javac" "$javaClass")

fi

if [ -e "$BASE\_DIR/.mvn/wrapper/MavenWrapperDownloader.class" ]; then

# Running the downloader

if [ "$MVNW\_VERBOSE" = true ]; then

echo " - Running MavenWrapperDownloader.java ..."

fi

("$JAVA\_HOME/bin/java" -cp .mvn/wrapper MavenWrapperDownloader "$MAVEN\_PROJECTBASEDIR")

fi

fi

fi

fi

##########################################################################################

# End of extension

##########################################################################################

export MAVEN\_PROJECTBASEDIR=${MAVEN\_BASEDIR:-"$BASE\_DIR"}

if [ "$MVNW\_VERBOSE" = true ]; then

echo $MAVEN\_PROJECTBASEDIR

fi

MAVEN\_OPTS="$(concat\_lines "$MAVEN\_PROJECTBASEDIR/.mvn/jvm.config") $MAVEN\_OPTS"

# For Cygwin, switch paths to Windows format before running java

if $cygwin; then

[ -n "$M2\_HOME" ] &&

M2\_HOME=`cygpath --path --windows "$M2\_HOME"`

[ -n "$JAVA\_HOME" ] &&

JAVA\_HOME=`cygpath --path --windows "$JAVA\_HOME"`

[ -n "$CLASSPATH" ] &&

CLASSPATH=`cygpath --path --windows "$CLASSPATH"`

[ -n "$MAVEN\_PROJECTBASEDIR" ] &&

MAVEN\_PROJECTBASEDIR=`cygpath --path --windows "$MAVEN\_PROJECTBASEDIR"`

fi

# Provide a "standardized" way to retrieve the CLI args that will

# work with both Windows and non-Windows executions.

MAVEN\_CMD\_LINE\_ARGS="$MAVEN\_CONFIG $@"

export MAVEN\_CMD\_LINE\_ARGS

WRAPPER\_LAUNCHER=org.apache.maven.wrapper.MavenWrapperMain

exec "$JAVACMD" \

$MAVEN\_OPTS \

-classpath "$MAVEN\_PROJECTBASEDIR/.mvn/wrapper/maven-wrapper.jar" \

"-Dmaven.home=${M2\_HOME}" "-Dmaven.multiModuleProjectDirectory=${MAVEN\_PROJECTBASEDIR}" \

${WRAPPER\_LAUNCHER} $MAVEN\_CONFIG "$@"

**Pom.xml:**

<?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>2.5.4</version>

<relativePath/> <!-- lookup parent from repository -->

</parent>

<groupId>com.SpringTest</groupId>

<artifactId>Testing-Spring-Jenkins</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>Spring-Jenkins</name>

<description> Spring Boot -Jenkins</description>

<properties>

<java.version>11</java.version>

</properties>

<dependencies>

<dependency>

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

<artifactId>spring-boot-starter-thymeleaf</artifactId>

</dependency>

<dependency>

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

<artifactId>spring-boot-starter-web</artifactId>

</dependency>

<dependency>

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

<artifactId>spring-boot-devtools</artifactId>

<scope>runtime</scope>

<optional>true</optional>

</dependency>

<dependency>

<groupId>mysql</groupId>

<artifactId>mysql-connector-java</artifactId>

<scope>runtime</scope>

</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>

</plugins>

</build>

</project>