# **Assignment:**

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Assignment

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- \*\*Assignment\*\*
- 1) Create Maven Web Application
- 2) Added 'Spring-Core' dependency in project pom.xml file
- 3) Package maven project as war file using maven goal
- 4) Create Git repository in github.com (public repo)
- 5) Push maven project into github repo using gitbash (target folder shouldn't be committed, add this is .gitignore file)
- 6) Make changes in pom.xml and push changes to github repo using git bash
- 7) Create 'feature' branch in git repo from main branch
- 8) Clone feature branch from git bash using git clone
- 9) Make changes in 'feature' branch pom.xml file and push changes to central repo
- 10) Create pull request and merge 'feature' branch changes to 'main' branch

## 1. Create a Maven Application

mvn archetype:generate -DarchetypeArtifactId=maven-archetype-webapp -DartifactId=assignment - DgroupId=assignment.com -DarchetypeGroupId=org.apache.maven.archetypes -DarchetypeGroupId=org.apache.maven.archetypes -DinteractiveMode=false

```
pom - Notepad
File Edit Format View Help
<?xml version="1.8" encoding="UTF-8"?>
cproject 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 http://maven.apache.org/xsd/maven-4.0.0.xsd">
 cmodelVersion>4.0.0c/modelVersion>
 <groupId>assignment.com</groupId>
  <artifactId>assignment</artifactId>
  cversion>1.0-SNAPSHOT</version>
 <packaging>jar</packaging>
 <name>assignment Maven Webapp</name>
  cl -- FIXME change it to the project's website -->
  curl>http://www.example.com</url>
 cproperties>
   cmaven.compiler.source>1.7c/maven.compiler.source>
   <maven.compiler.target>1.7</maven.compiler.target>
 c/properties>
 <dependencies>
   <dependency>
     <groupId>junit</groupId>
     <artifactid>junit</artifactid>
     <version>4.11</version>
     <scope>test</scope>
   </dependency>
 </dependencies>
  cbuild>
   <finalName>assignment</finalName>
    cpluginManagement><!-- lock down plugins versions to avoid using Maven defaults (may be moved to parent pom) -->
     <plugins>
       «plugin»
         <artifactid>maven-clean-plugin</artifactid>
         cversion>3.1.0c/version>
       <1-- see http://maven.apache.org/ref/current/maven-core/default-bindings.html#Plugin_bindings_for_war_packaging -->
       <plugin>
         <artifactId>maven-resources-plugin</artifactId>
         <version>3.0.2/version>
       </plugin>
       <plugin>
         <artifactId>maven-compiler-plugin</artifactId>
         cversion>3.8.0c/version>
       </plugin>
       cplugin>
         <artifactid>maven-surefire-plugin</artifactid>
         curreions? 22 1/Juresions
```

# 2) Adding 'spring-core' dependency in project pom.xml file

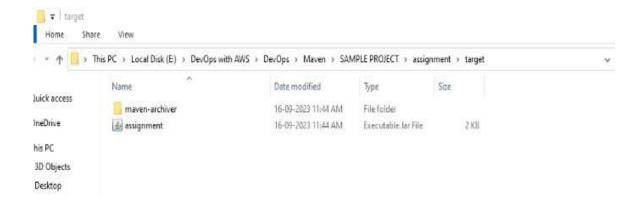


```
C\Windows\System32\cmd.eve
```

```
:\DevOps with AWS\DevOps\Maven\SAMPLE PROJECT\assignment>mvn clean compile
 INFO] Scanning for projects...
        ------ assignment.com:assignment >-----
  [NFO] Building assignment Maven Webapp 1.0-SNAPSHOT
         from pom.xml
        -----[ jar ]------
 ownloading from central: https://repo.maven.apache.org/maven2/org/springframework/spring/2.5.6/spring-2.5.6.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/spring/2.5.6/spring-2.5.6.pom (12 kB at 26 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/commons-logging/commons-logging/1.1.1/commons-logging-1.1.1.pom
Downloaded from central: https://repo.maven.apache.org/maven2/commons-logging/commons-logging/1.1.1/commons-logging-1.1.1.pom (18 kB at 592 kB/s)
 ownloading from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-parent/5/commons-parent-5.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-parent/5/commons-parent-5.pom (16 kB at 517 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/springframework/spring/2.5.6/spring-2.5.6.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/spring/2.5.6/spring-2.5.6.jar (2.9 MB at 13 MB/s)
Downloading from central: https://repo.maven.apache.org/maven2/commons-logging/commons-logging/1.1.1/commons-logging-1.1.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/commons-logging/commons-logging/1.1.1/commons-logging-1.1.1.jar (61 kB at 1.9 MB/s)
        --- cleam:3.1.0:cleam (default-cleam) @ assignment ---
        --- resources:3.0.2:resources (default-resources) @ assignment ---
       Using 'UTF-8' encoding to copy filtered resources
        skip non existing resourceDirectory E:\DevOps with AWS\DevOps\Maven\SAMPLE PROJECT\assignment\src\main\resources
        --- compiler:3.8.9:compile (default-compile) @ assignment ---
       No sources to compile
        BUILD SUCCESS
       Total time: 2.849 s
        Finished at: 2023-09-16T11:39:30+05:30
  \DevOps with AWS\DevOps\Maven\SAMPLE PROJECT\assignment>
```

## 3) Package maven project as war file using maven goal

```
C:\Windows\System32\cmd.ere
 :\DevOps with AWS\DevOps\Maven\SAMPLE PROJECT\assignment>mvn clean package
 INFO] Scanning for projects...
                 ------ assignment.com:assignment >------
       Building assignment Maven Webapp 1.0-SNAPSHOT
        from pom.xml
       -----[ jar ]------
       --- clean:3.1.0:clean (default-clean) @ assignment ---
                  inces:3.0.2:resources (default resources) @ assignment ---
       Using 'UTF-8' encoding to copy filtered resource
       skip non existing resourceDirectory E:\DevOps with AWS\DevOps\Maven\SAMPLE PROJECT\assignment\src\main\resources
        -- compiler:3.8.0:compile (default-compile) @ assignment ---
       No sources to compile
       --- resources:1.8.2:testResources (default-testResources) @ assignment ---
Using 'UTF-8' encoding to copy filtered resources.
skip non existing resourceDirectory E:\DevOps with ANS\DevOps\Maven\SAMPLE PROJECT\assignment\src\test\resources
           compiler: 3.8.0: testCompile (default-testCompile) @ assignment ---
      No sources to compile
       --- surefire:2.22.1:test (default-test) @ assignment ---
 INFO! No tests to run.
INFO] --- jar:3.3.0:jar (default-jar) @ assignment ---
WARNING] JAR will be empty - no content was marked for inclusion!
INFO] Building jar: E:\DevOps with AWS\DevOps\Maven\SAMPLE PROJECT\assignment\target\assignment.jar
 INFO] Total time: 2,881 s
INFO] Finished at: 2023-09-16T11:44:16+05:30
 :\DevOps with AWS\DevOps\Maven\SAMPLE PROJECT\assignment>
```



4) Created git repository in github (public repo).

https://github.com/rbasha786/assignement-git-maven.git

5) Push maven project into github repo using gitbash (target folder should't be committed, add this is .gitignore file)

```
MINGW64:/e/DevOps with AW5/DevOps/Maven/SAMPLE PROJECT/assignment
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assi
gnment
$ git init
Initialized empty Git repository in E:/DevOps with AWS/DevOps/Maven/SAMPLE PROJE
CT/assignment/.git/
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assi
gnment (master)
$ 15
pom.xml src/ target/
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assi
gnment (master)
$ mkdir .gitignore
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (master)
$ ls
pom.xml src/ target/
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (master)
$ 1s -a
         .git/ .gitignore/ pom.xml src/ target/
./ ../
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (master)
$ mv target/ .gitignore/
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (master)
$ 15
pom.xml src/
                                                                                              0
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (
```

```
MINGW64r/e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment
$ git commit -m "Assignment - Commit)
[master (root-commit) c8d3373] Assignment - Commit)
3 files changed, 86 insertions(+)
 create mode 100644 pom.xml
 create mode 100644 src/main/webapp/WEB-INF/web.xml
 create mode 100644 src/main/webapp/index.jsp
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (master)
$ git status
warning: unable to access '.gitignore': Permission denied
On branch master
Untracked files:
   (use "git add <file>..." to include in what will be committed)
           .gitignore/
nothing added to commit but untracked files present (use "git add" to track)
DELL@DESKTOP-J1MV3EC MINGW64 /e/Devops with AWS/Devops/Maven/SAMPLE PROJECT/assignment (master)
$ git remote add origin https://github.com/rbasha786/assignement-git-maven.git
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (master)
$ git push origin master
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (9/9), 1.38 KiB | 706.00 KiB/s, done.
Total 9 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/rbasha786/assignement-git-maven.git
 * [new branch]
                           master -> master
                                                                                         >_ + + O n 🗗 👫

    □ rbasha786 / assignement-git-maven

                                                               Q. Type // to search
 ♦ Code ⊙ Issues ↑ Pull requests ⊙ Actions ☐ Projects □ Wiki □ Security ☑ Insights ⑧ Settings
                                                                  assignement-git-maven Public
      P master - P 1 branch ○ 0 tags
                                                                 Add file *
                                                                         () Code +
                                                                                   About
                                                        Go to file
                                                                                   assignement - git -maven

    RiyazMBasha Assignment - Commit)

                                                           c8d3373 3 minutes ago 🔞 1 commit
                                                                                   A Activity
                                                                                   ☆ 0 stars
       src/main/webapp
                               Assignment - Commit)
                                                                        3 minutes ago

    1 watching

                               Assignment - Commit)
       [] pom.xml
                                                                        3 minutes ago
                                                                                   ¥ 0 forks
       Help people interested in this repository understand your project by adding a README.
                                                                       Add a README
                                                                                   Releases
                                                                                   Create a new release
```

### 6) Make changes in pom.xml and push chage to github repo using git bash

```
pom - Notepad
File Edit Format View Help
<?xml version="1.0" encoding="UTF-8"?>
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <groupId>assignment.com</groupId>
 <artifactId>assignment</artifactId>
 <version>1.1-SNAPSHOT</version>
 <packaging>jar</packaging>
 <name>assignment Maven Webapp</name>
 <!-- FIXME change it to the project's website -->
 <url>http://www.example.com</url>
 properties>
   <maven.compiler.source>1.7</maven.compiler.source>
   <maven.compiler.target>1.7</maven.compiler.target>
 </properties>
```

#### Note: Changed the version from 1.0 to 1.1

```
MINGW64I/e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment.
$ git status
warning: unable to access '.gitignore': Permission denied
On branch master
Changes not staged for commit:

(use "git add <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working
                                                to discard changes in working directory)
            modified:
                              pom.xml
Untracked files:
            "git add <file>..." to include in what will be committed)
   (use
             .gitignore/
no changes added to commit (use "git add" and/or "git commit -a")
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (master)
$ git add pom.xml
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (master)
$ git commit -m "updated the pom.xml"
[master e734451] updated the pom.xml
1 file changed, 1 insertion(+), 1 deletion(-)
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (master)
$ git push origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 310 bytes | 310.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/rbasha786/assignement-git-maven.git
                                                                                                                                            厕
     c8d3373..e734451 master -> master
```

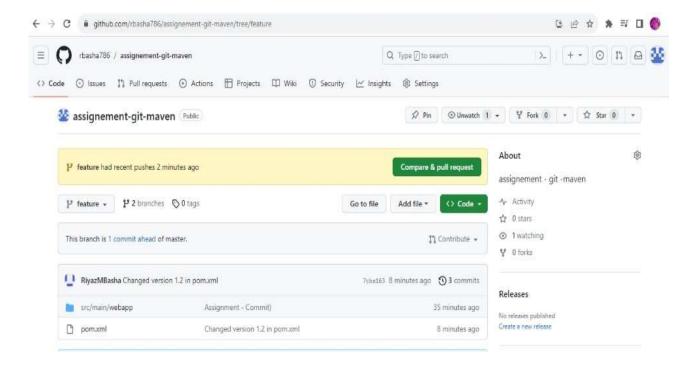
### 7. Create 'feature' branch in git repo from main branch and also

### 8. Cloned feature branch from git bash using git clone

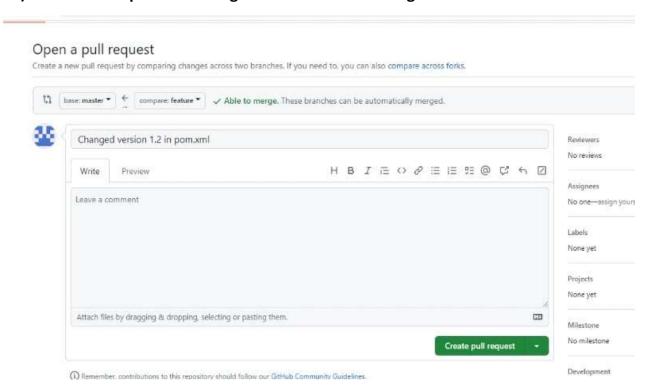
```
♦ MINGW64I/e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (master)
$ git branch feature
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (master)
$ git branch -a
   feature
* master
  remotes/origin/master
DELL@DESKTOP-JIMV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (master)
$ git checkout feature
Switched to branch 'feature'
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (feature)
$ git clone https://github.com/rbasha786/assignement-git-maven.git
Cloning into 'assignement-git-maven'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 12 (delta 1), reused 12 (delta 1), pack-reused 0
Receiving objects: 100% (12/12), done.
Resolving deltas: 100% (1/1), done.
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assignment (feature)
```

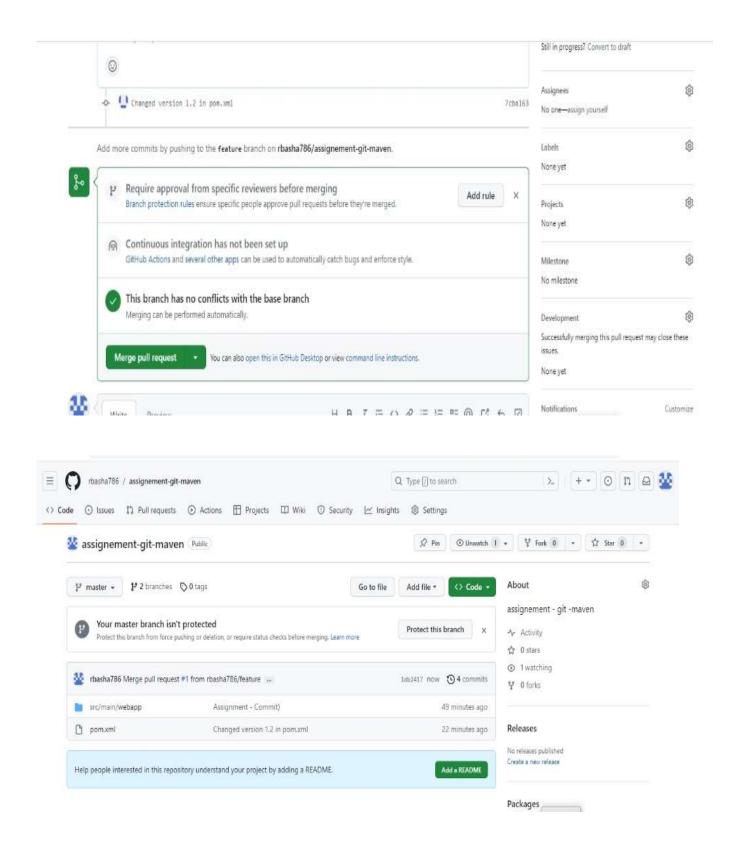
### 9) Make changes in "feature" branch pom.xml file and push changes to central repo.

```
MINGW64:/e/DevOps with AWS/DevOps/Maven/SAMPLE PROJECT/assig
<?xml version="1.0" encoding="UTF-8"?>
<groupId>assignment.com</groupId>
 <artifactId>assignment</artifactId>
<version>1.2-SNAPSHOT</version>
 <packaging>jar</packaging>
 <name>assignment Maven Webapp</name>
 <!-- FIXME change it to the project's website -->
<url>http://www.example.com</url>
 coroperties>
   <maven.compiler.source>1.7</maven.compiler.source>
<maven.compiler.target>1.7</maven.compiler.target>
 </properties>
 <dependencies>
<dependency>
<groupId>org.springframework
<artifactId>spring</artifactId>
<version>2.5.6</version>
</dependency>
   <dependency>
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with
AWS/DevOps/Maven/SAMPLE PROJECT/assignment (feature)
$ git commit -m "Changed version 1.2 in pom.xml" [feature 7cba163] Changed version 1.2 in pom.xml
 1 file changed, 1 insertion(+), 1 deletion(-)
DELL@DESKTOP-J1MV3EC MINGW64 /e/DevOps with
AWS/DevOps/Maven/SAMPLE PROJECT/assignment (feature)
$ git push origin feature
Enumerating objects: 5, done.
Counting objects: 100\% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100\% (3/3), done.
Writing objects: 100% (3/3), 318 bytes | 318.00 KiB/s, done. Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100\% (1/1), completed with 1 local
object.
remote:
remote: Create a pull request for 'feature' on GitHub by
visiting:
                 https://github.com/rbasha786/assignement-git-
remote:
maven/pull/new/feature
To https://github.com/rbasha786/assignement-git-maven.git
                           feature -> feature
 * [new branch]
```



# 10) Create full request and merge 'feature' branch changes to 'main' branch





**Conclusion:** The assignment has been successfully committed.