

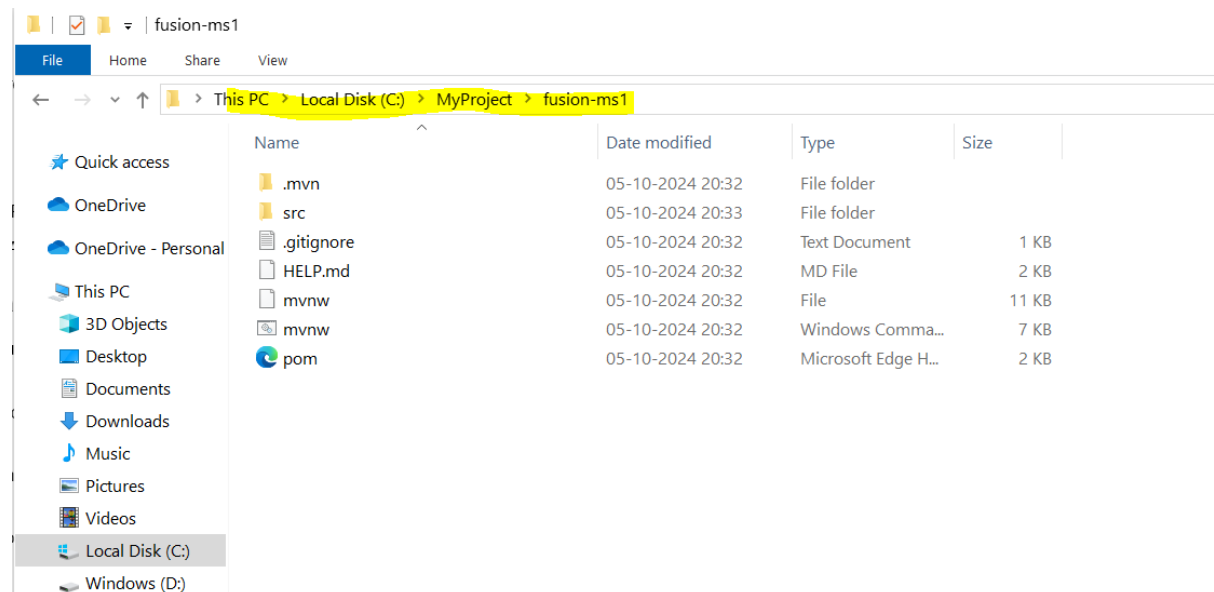
1)Generate Spring initializer

The screenshot shows the Spring Initializr web application. The interface is divided into several sections:

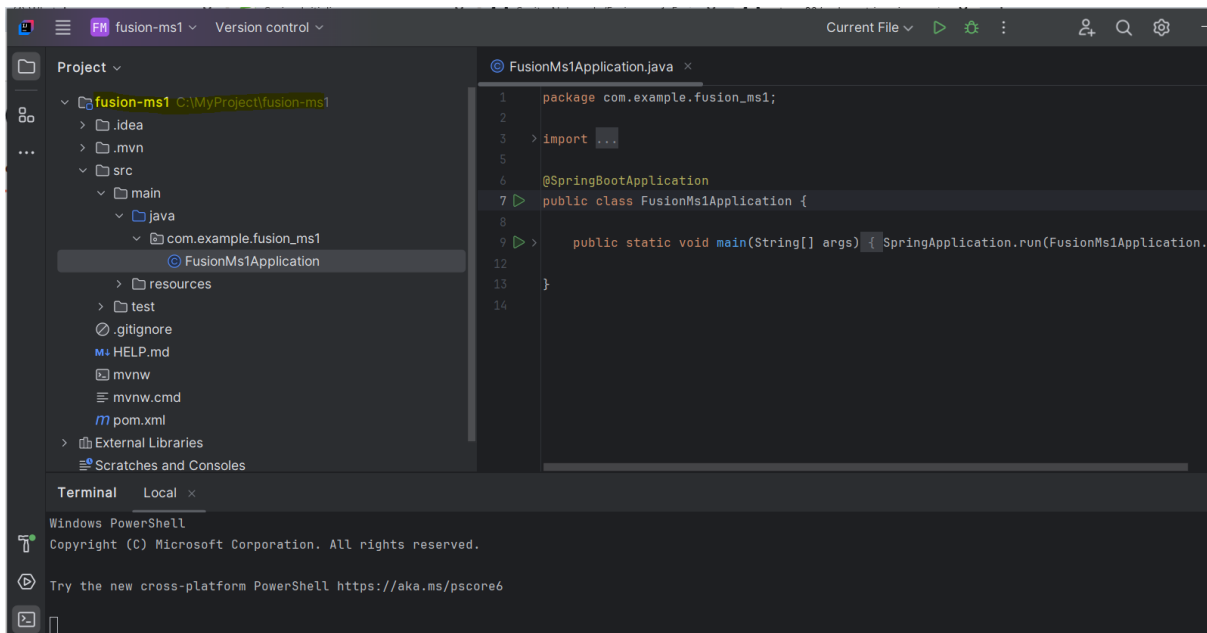
- Project:** Includes radio buttons for **Gradle - Groovy**, **Gradle - Kotlin**, **Java** (selected), **Kotlin**, and **Groovy**. Below this is a **Maven** section with radio buttons for **3.4.0 (SNAPSHOT)**, **3.4.0 (M3)**, **3.3.5 (SNAPSHOT)**, and **3.2.10** (selected).
- Project Metadata:** Includes fields for **Group** (com.example), **Artifact** (fusion-ms1), **Name** (fusion-ms1), **Description** (Demo project for Spring Boot), and **Package name** (com.example.fusion-ms1). There is also a **Packaging** section with **Jar** (selected) and **War** options, and a **Java** version section with **23**, **21**, and **17** (selected).
- Dependencies:** Includes a button **ADD DEPENDENCIES... CTRL + B** and two sections: **Spring Web** (WEB) and **Spring Boot Actuator** (OPS).

At the bottom, there are three buttons: **GENERATE CTRL + G**, **EXPLORE CTRL + SPACE**, and **SHARE...**

2)Unzip file and create new folder "MyProject" and paste into this



3)Import project into intellij



4) Compile the code

```
PS C:\MyProject\fusion-ms1> mvn clean compile
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.example:fusion-ms1 >-----
[INFO] Building fusion-ms1 0.0.1-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- clean:3.3.2:clean (default-clean) @ fusion-ms1 ---
[INFO]
[INFO] --- resources:3.3.1:resources (default-resources) @ fusion-ms1 ---
[INFO] Copying 1 resource from src\main\resources to target\classes
[INFO] Copying 0 resource from src\main\resources to target\classes
[INFO]
[INFO] --- compiler:3.11.0:compile (default-compile) @ fusion-ms1 ---
[INFO] Changes detected - recompiling the module! :source
[INFO] Compiling 1 source file with javac [debug release 17] to target\classes
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 4.243 s
[INFO] Finished at: 2024-10-05T20:46:46+05:30
[INFO]
PS C:\MyProject\fusion-ms1>
```

5) “mvn clean package”

```

PS C:\MyProject\fusion-ms1> mvn clean package
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.example:fusion-ms1 >-----
[INFO] Building fusion-ms1 0.0.1-SNAPSHOT
[INFO]    from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- clean:3.3.2:clean (default-clean) @ fusion-ms1 ---
[INFO] Deleting C:\MyProject\fusion-ms1\target
[INFO]
[INFO] --- resources:3.3.1:resources (default-resources) @ fusion-ms1 ---
[INFO] Copying 1 resource from src\main\resources to target\classes
[INFO] Copying 0 resource from src\main\resources to target\classes
[INFO]
[INFO] --- compiler:3.11.0:compile (default-compile) @ fusion-ms1 ---
[INFO] Changes detected - recompiling the module! :source
[INFO] Compiling 1 source file with javac [debug release 17] to target\classes
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ fusion-ms1 ---
[INFO] skip non existing resourceDirectory C:\MyProject\fusion-ms1\src\test\resources
[INFO]
[INFO] --- compiler:3.11.0:testCompile (default-testCompile) @ fusion-ms1 ---
[INFO] Changes detected - recompiling the module! :dependency
[INFO] Compiling 1 source file with javac [debug release 17] to target\test-classes
[INFO]
[INFO] --- surefire:3.1.2:test (default-test) @ fusion-ms1 ---
[INFO] Using auto detected provider org.apache.maven.surefire.junitplatform.JUnitPlatformProvider

```

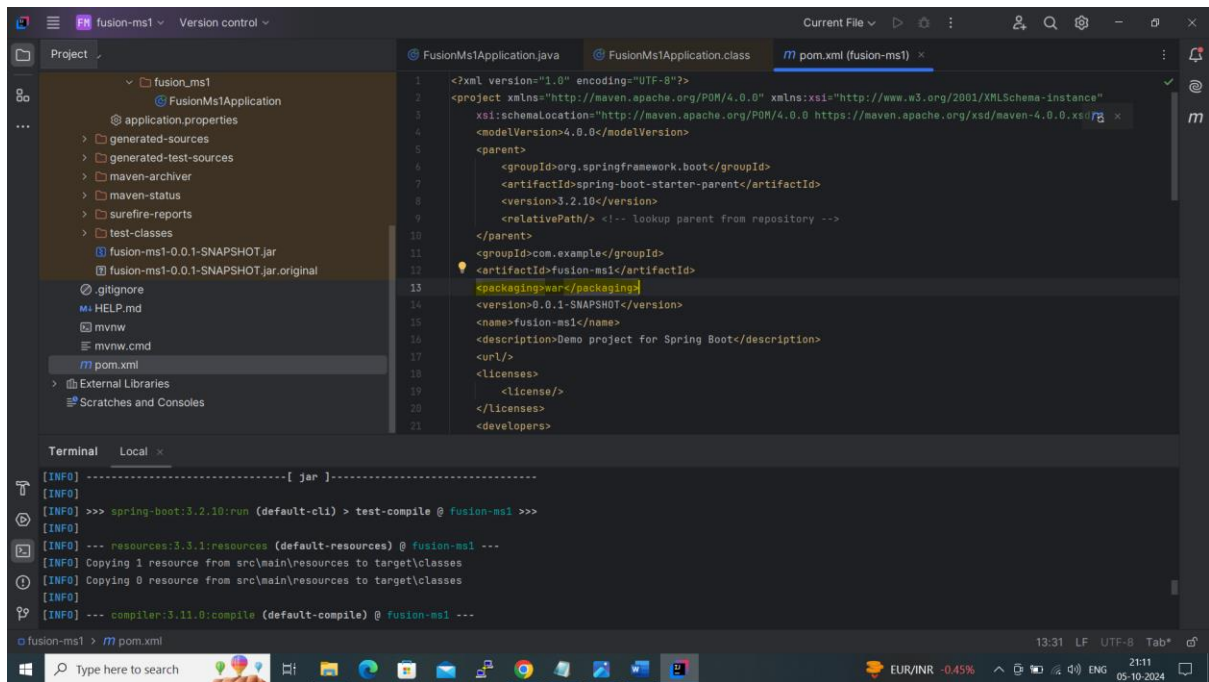
6) Run the code with help of (mvn spring-boot:run)

```

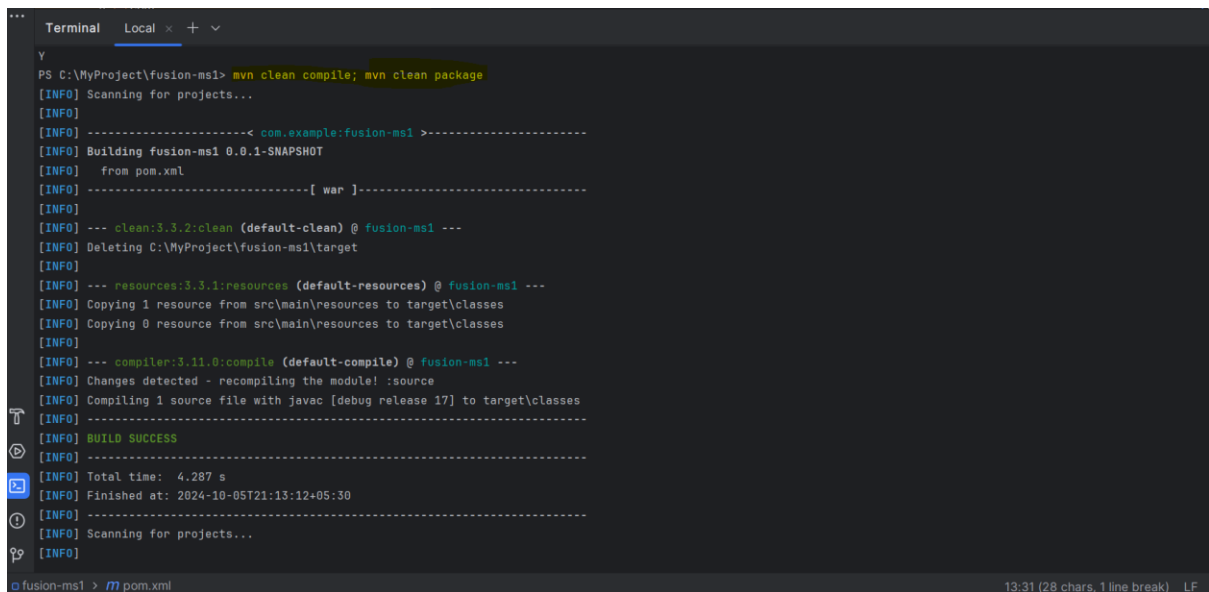
PS C:\MyProject\fusion-ms1> mvn spring-boot:run
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.example:fusion-ms1 >-----
[INFO] Building fusion-ms1 0.0.1-SNAPSHOT
[INFO]    from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] >>> spring-boot:3.2.10:run (default-cli) > test-compile @ fusion-ms1 >>>
[INFO]
[INFO] --- resources:3.3.1:resources (default-resources) @ fusion-ms1 ---
[INFO] Copying 1 resource from src\main\resources to target\classes
[INFO] Copying 0 resource from src\main\resources to target\classes
[INFO]
[INFO] --- compiler:3.11.0:compile (default-compile) @ fusion-ms1 ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ fusion-ms1 ---
[INFO] skip non existing resourceDirectory C:\MyProject\fusion-ms1\src\test\resources
[INFO]
[INFO] --- compiler:3.11.0:testCompile (default-testCompile) @ fusion-ms1 ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] <<< spring-boot:3.2.10:run (default-cli) < test-compile @ fusion-ms1 <<<
[INFO]
[INFO]
[INFO] --- spring-boot:3.2.10:run (default-cli) @ fusion-ms1 ---

```

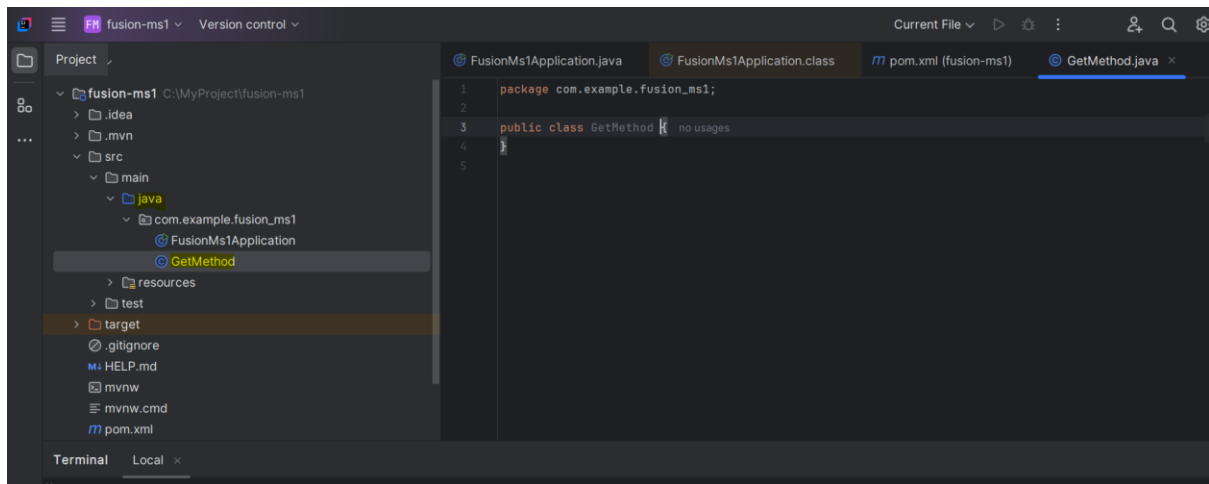
7) Convert jar file to war



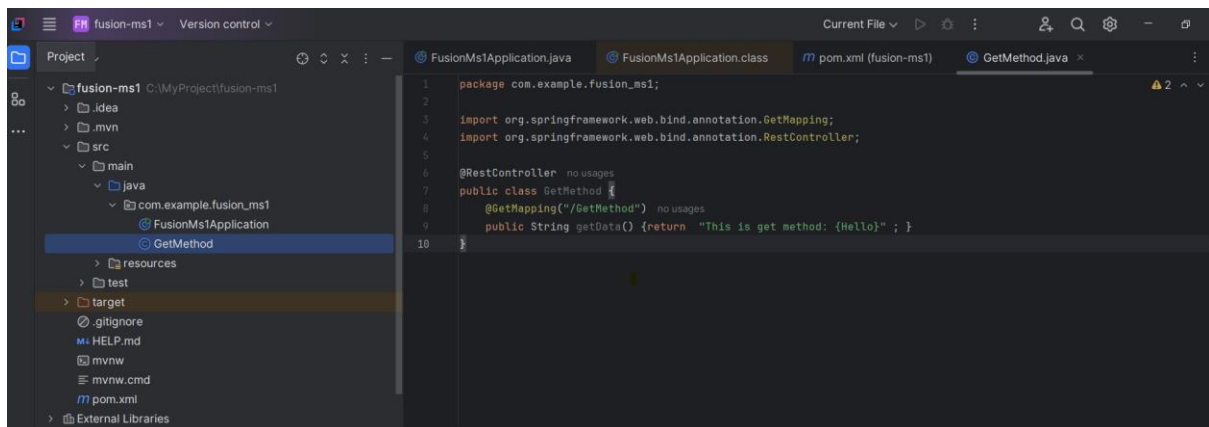
8)Run and check if war file is created or not



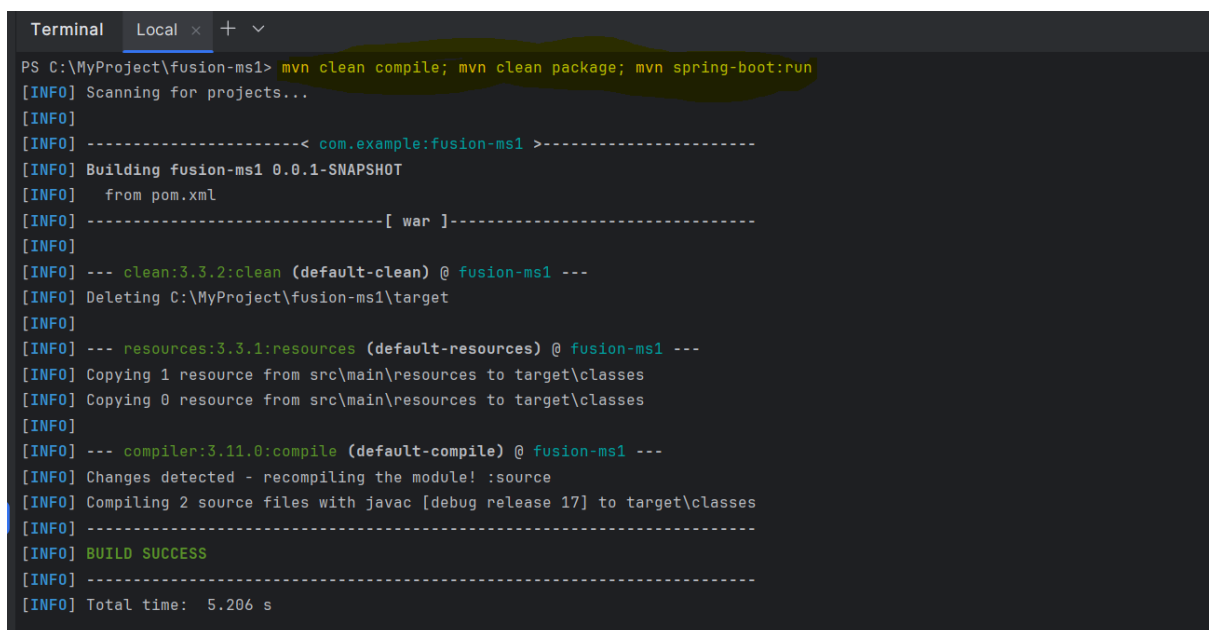
9)Create one class for get method



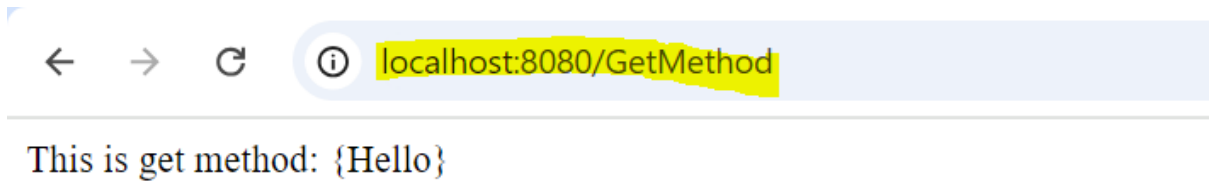
10) write some code



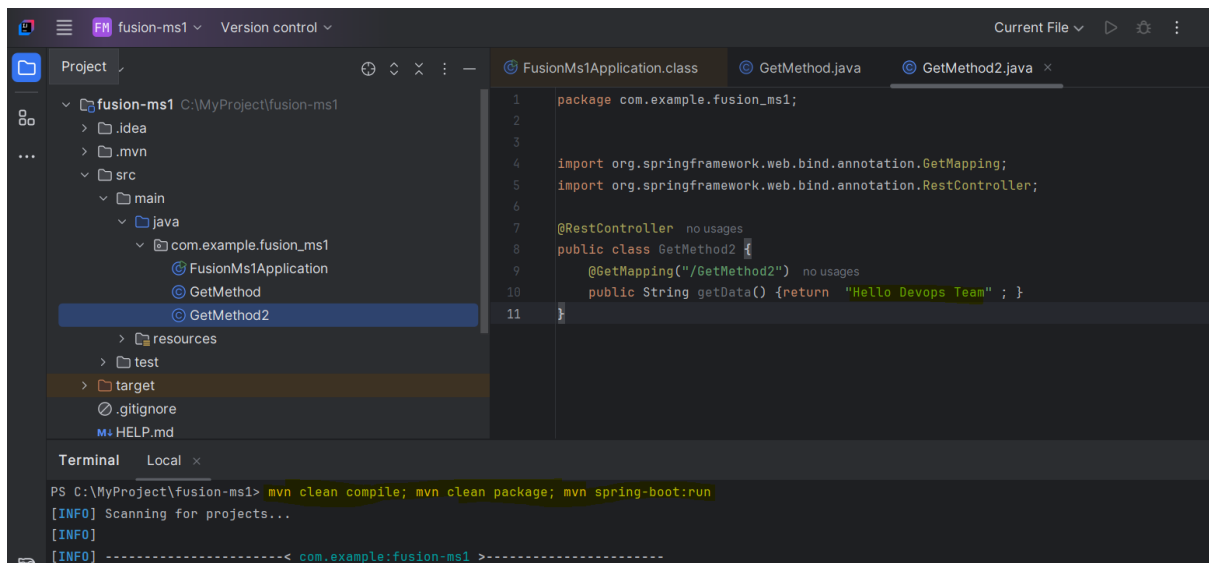
11) Compile package and run code with below commands



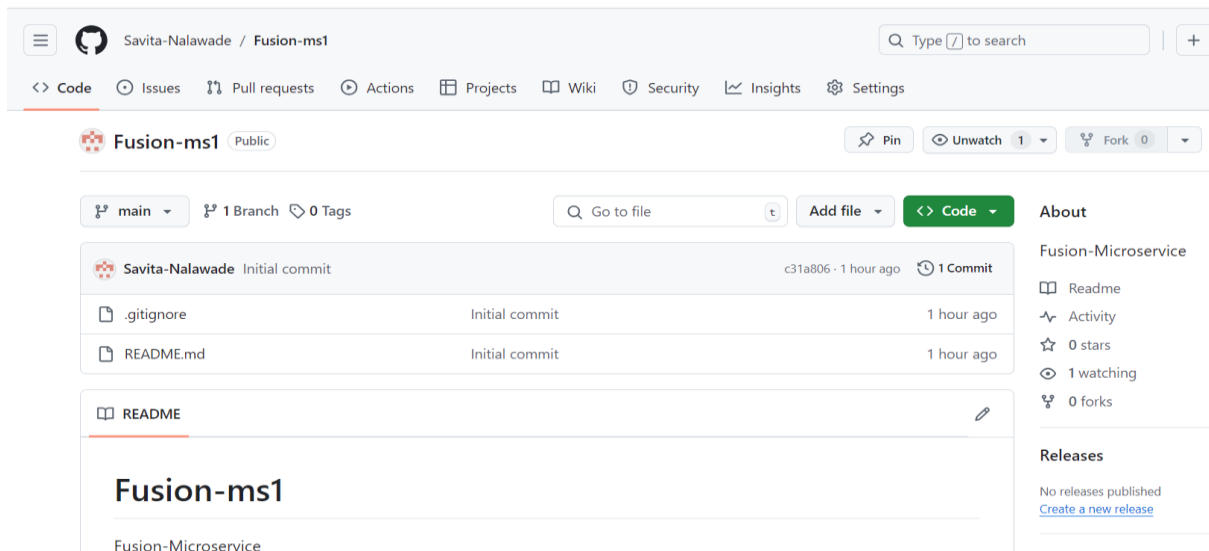
12) We can see output in our local machine with "localhost:8080/"



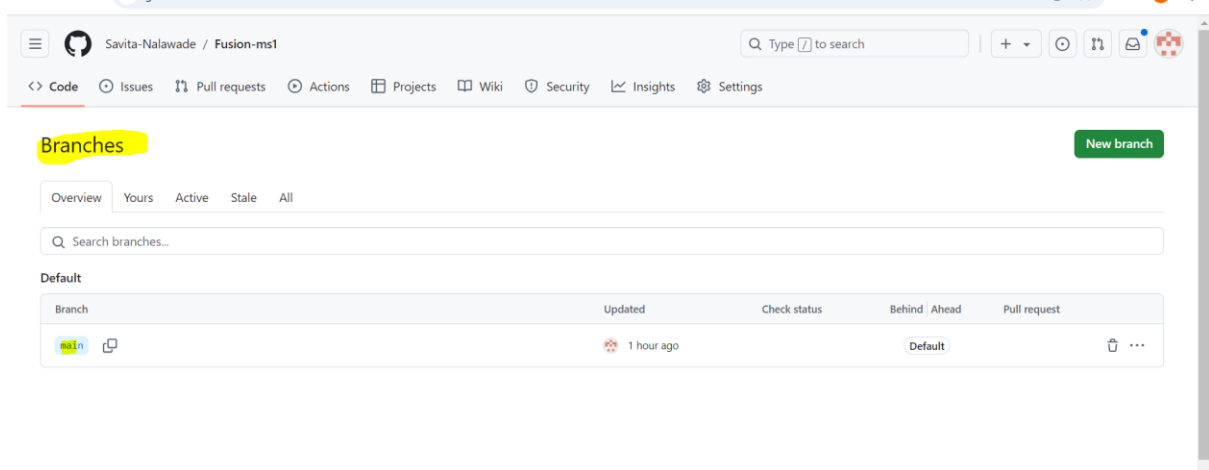
13)create one more getmethod2



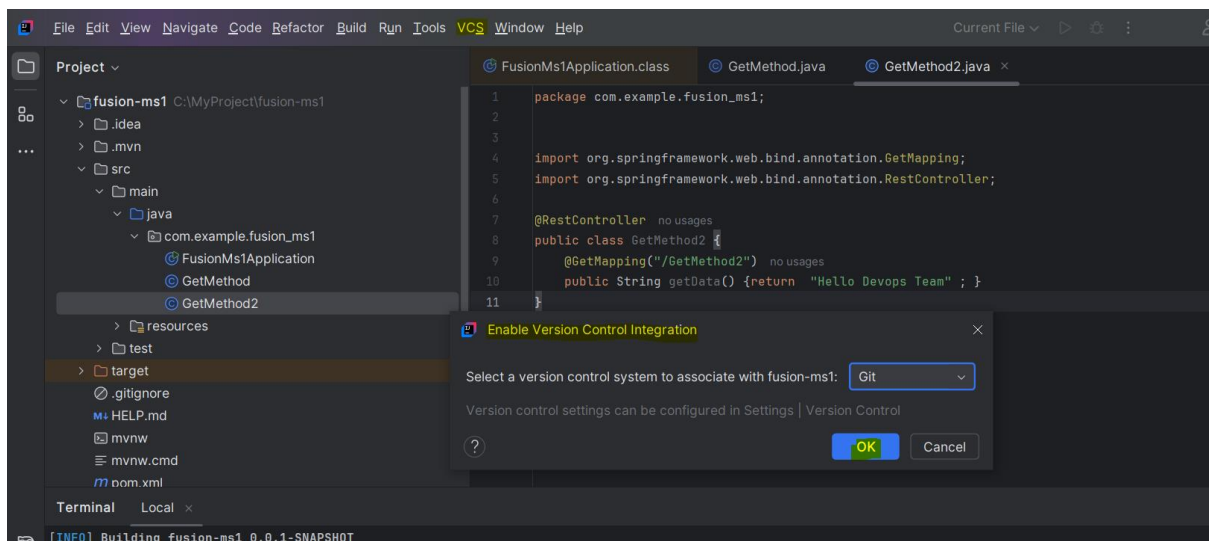
14)Now, create new repository with same name of project in github



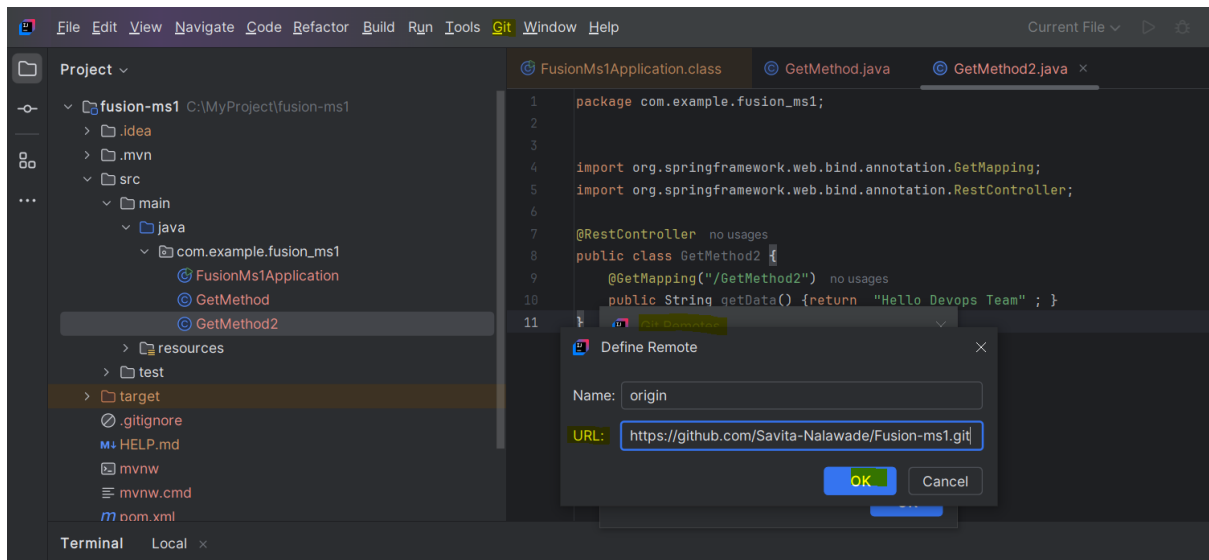
By default one branch is there which is “main ”



15)Enable version control integration



16)click on git -> remote manage and add url of your repository



17) now try to pull intellij code to github in main branch

```
Terminal Local x + v
PS C:\MyProject\fusion-ms1> git pull origin main
From https://github.com/Savita-Nalawade/Fusion-ms1
Already up to date.
PS C:\MyProject\fusion-ms1> dir

Directory: C:\MyProject\fusion-ms1

Mode                LastWriteTime         Length Name
----                -
d-----          05-10-2024    23:42             .idea
d-----          05-10-2024    20:33             .mvn
d-----          05-10-2024    20:33             src
d-----          05-10-2024    21:43             target
-a-----          05-10-2024    20:32           395 .gitignore
-a-----          05-10-2024    20:32          1720 HELP.md
-a-----          05-10-2024    20:32         10665 mvnw
-a-----          05-10-2024    20:32          6912 mvnw.cmd
-a-----          05-10-2024    21:10          1566 pom.xml

PS C:\MyProject\fusion-ms1> git add --all
PS C:\MyProject\fusion-ms1> git commit -m "coderefactor"
On branch main
nothing to commit, working tree clean
```

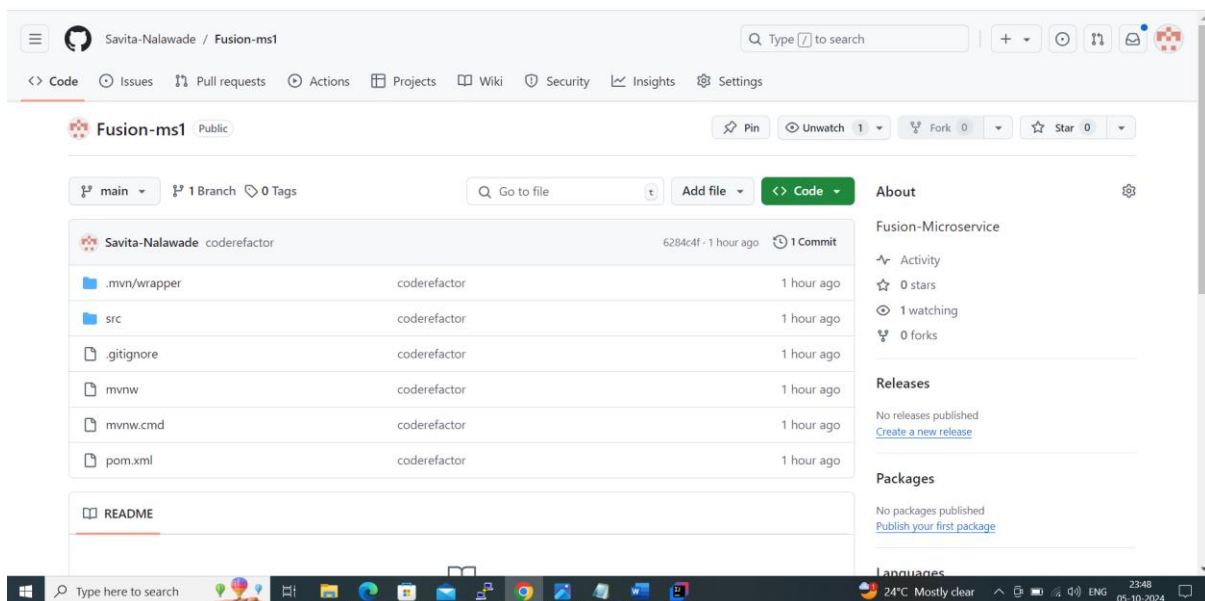
19) Push all data to in repository


```

PS C:\MyProject\fusion-ms1> git push origin main -f
Enumerating objects: 26, done.
Counting objects: 100% (26/26), done.
Delta compression using up to 4 threads
Compressing objects: 100% (17/17), done.
Writing objects: 100% (26/26), 8.82 KiB | 644.00 KiB/s, done.
Total 26 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), done.
To https://github.com/Savita-Nalawade/Fusion-ms1.git
+ c31a806...6284c4f main -> main (forced update)
PS C:\MyProject\fusion-ms1>

```

20) We can see all main files are showing in repository



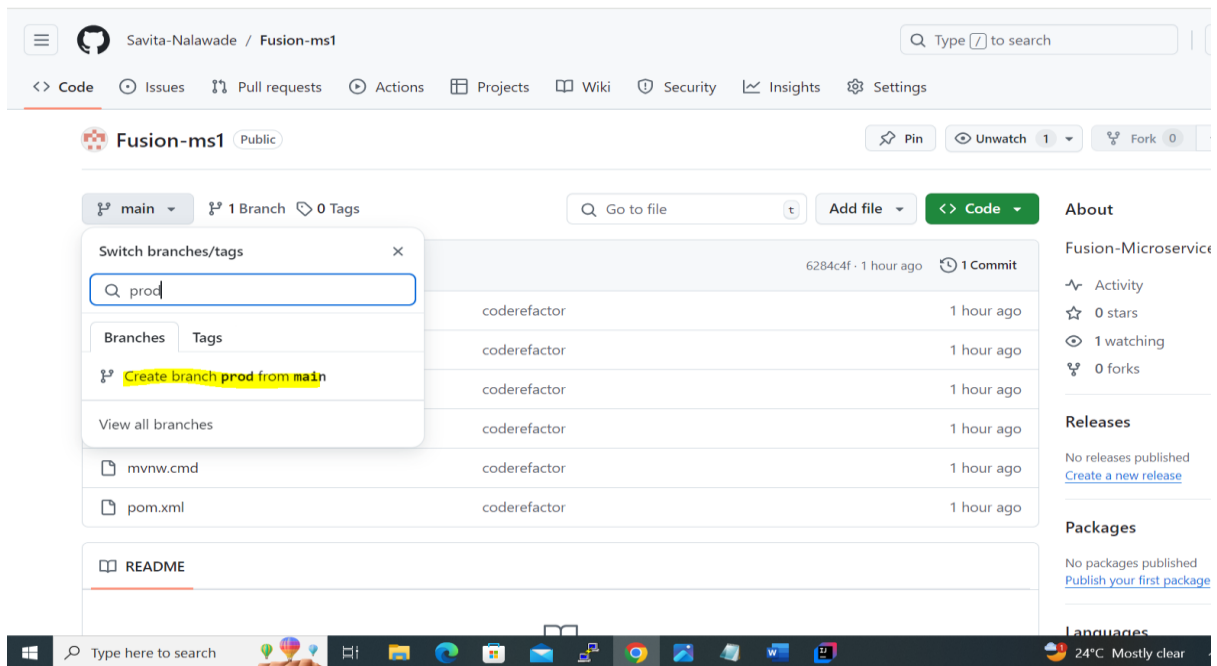
The screenshot displays the GitHub interface for the repository 'Savita-Nalawade / Fusion-ms1'. The main content area shows the file list for the 'main' branch, which includes:

- `.mvnw/wrapper` (committed by coderefactor 1 hour ago)
- `src` (committed by coderefactor 1 hour ago)
- `.gitignore` (committed by coderefactor 1 hour ago)
- `mvnw` (committed by coderefactor 1 hour ago)
- `mvnw.cmd` (committed by coderefactor 1 hour ago)
- `pom.xml` (committed by coderefactor 1 hour ago)

The right sidebar provides additional information about the repository:

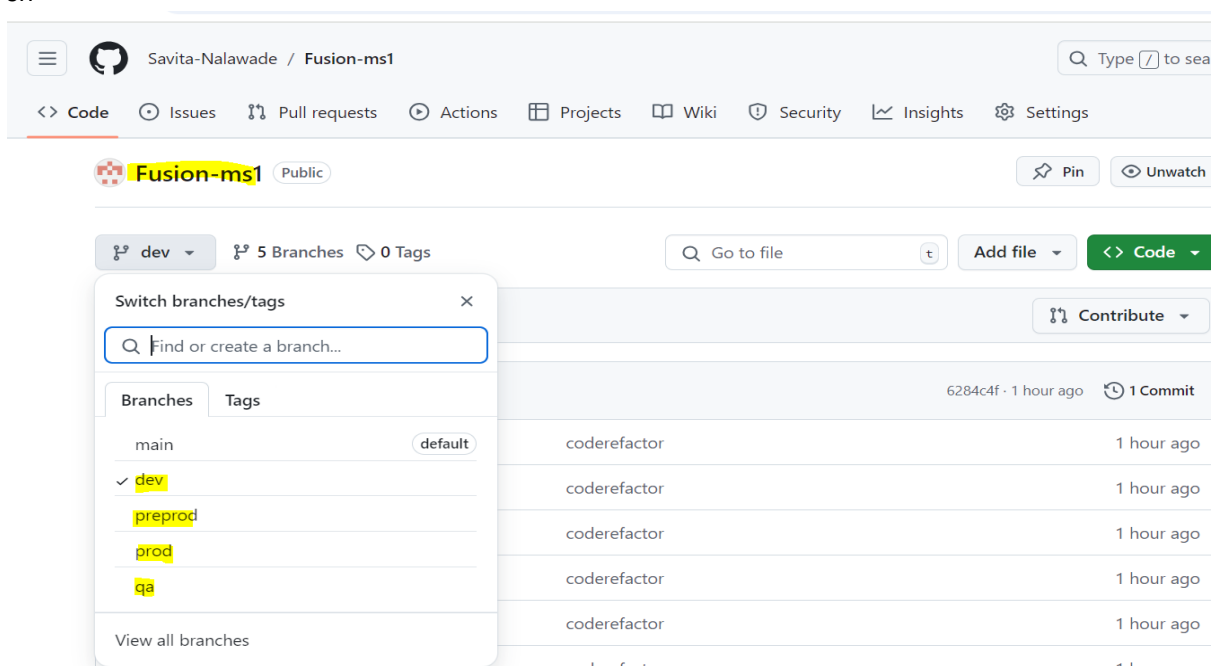
- About:** Fusion-Microservice
- Activity:** 0 stars, 1 watching, 0 forks
- Releases:** No releases published. [Create a new release](#)
- Packages:** No packages published. [Publish your first package](#)

21) now create prod branch from main branch

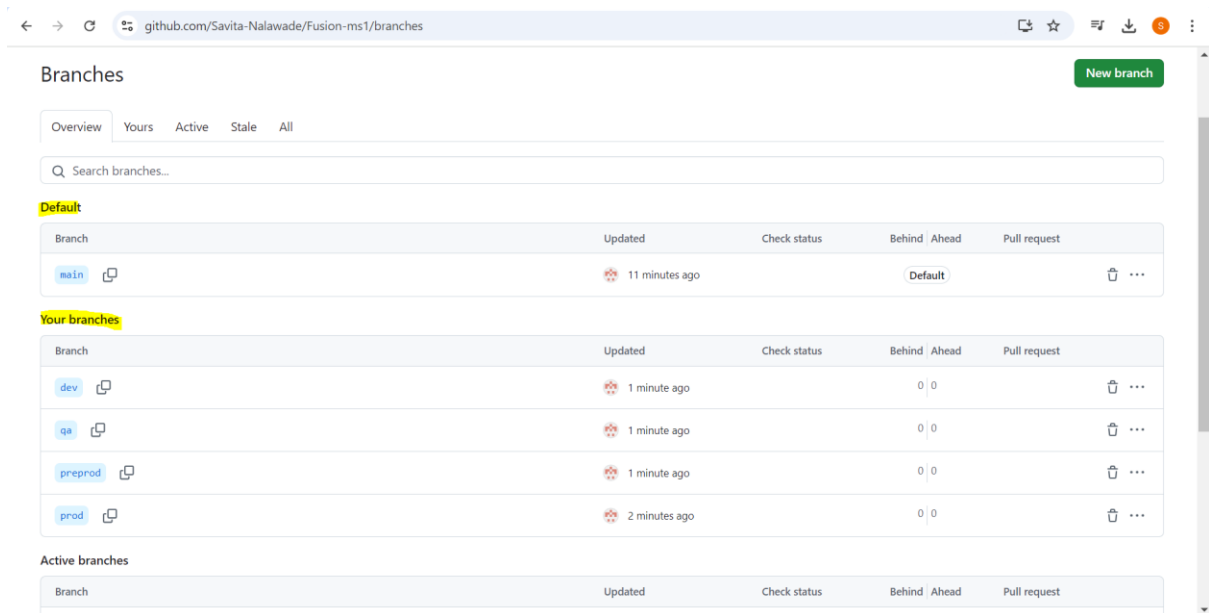


22) {from main -> prod,preprod,qa,dev} branches are created

sh



show all created branch



23) using below cmds we can move to one branch to another

```

Terminal Local x + v
PS C:\MyProject\Fusion-ms1> git fetch origin qa
+ branch      qa      -> FETCH_HEAD
+ [new branch] qa      -> origin/qa
branch 'qa' set up to track 'origin/qa'.
Switched to a new branch 'qa'
PS C:\MyProject\Fusion-ms1> git branch
  main
* master
+ qa
PS C:\MyProject\Fusion-ms1> git fetch origin preprod
From https://github.com/Savita-Nalawade/Fusion-ms1
+ branch      preprod  -> FETCH_HEAD
+ [new branch] preprod  -> origin/preprod
PS C:\MyProject\Fusion-ms1> git checkout preprod
branch 'preprod' set up to track 'origin/preprod'.
Switched to a new branch 'preprod'
PS C:\MyProject\Fusion-ms1> git branch
  main
* master
+ preprod
+ qa
PS C:\MyProject\Fusion-ms1> git fetch origin prod
From https://github.com/Savita-Nalawade/Fusion-ms1
+ branch      prod     -> FETCH_HEAD
+ [new branch] prod     -> origin/prod
PS C:\MyProject\Fusion-ms1> git checkout prpd
error: pathspec 'prpd' did not match any file(s) known to git
PS C:\MyProject\Fusion-ms1> git checkout prod
branch 'prod' set up to track 'origin/prod'.
Switched to a new branch 'prod'

```

24) now we are in "dev" branch

```

PS C:\MyProject\fusion-ms1> git fetch origin dev
From https://github.com/Savita-Nalawade/Fusion-ms1
 * branch          dev          -> FETCH_HEAD
PS C:\MyProject\fusion-ms1> git checkout dev
branch 'dev' set up to track 'origin/dev'.
Switched to a new branch 'dev'
PS C:\MyProject\fusion-ms1> git branch
* dev
  main
  master
  preprod
  prod
  qa
PS C:\MyProject\fusion-ms1> git pull origin dev
From https://github.com/Savita-Nalawade/Fusion-ms1
 * branch          dev          -> FETCH_HEAD
Already up to date.
PS C:\MyProject\fusion-ms1>

```

25) create one new branch from dev branch (feature/visa)

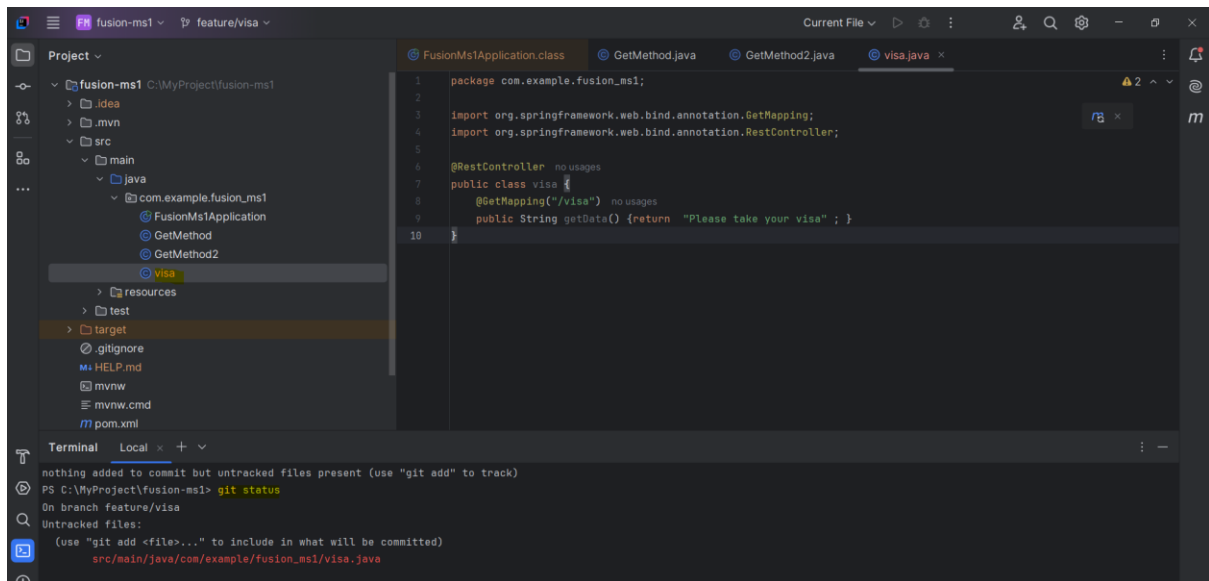
```

PS C:\MyProject\fusion-ms1> git checkout -b feature/visa
Switched to a new branch 'feature/visa'
PS C:\MyProject\fusion-ms1> git branch
  dev
* feature/visa
  main
  master
  preprod
  prod
  qa
PS C:\MyProject\fusion-ms1>

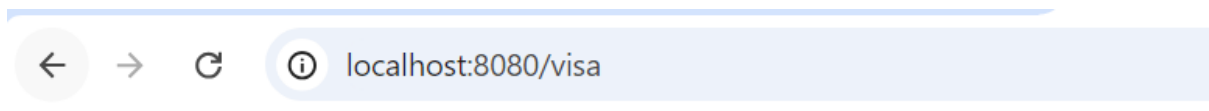
```

fusion-ms1 > src > main > java > com > example > fusion_ms1 > © GetMethod2

26) Create new class with same name of branch(visa) and write get method



We can get output as per below



Please take your visa

27)push “visa” branch code to git

```

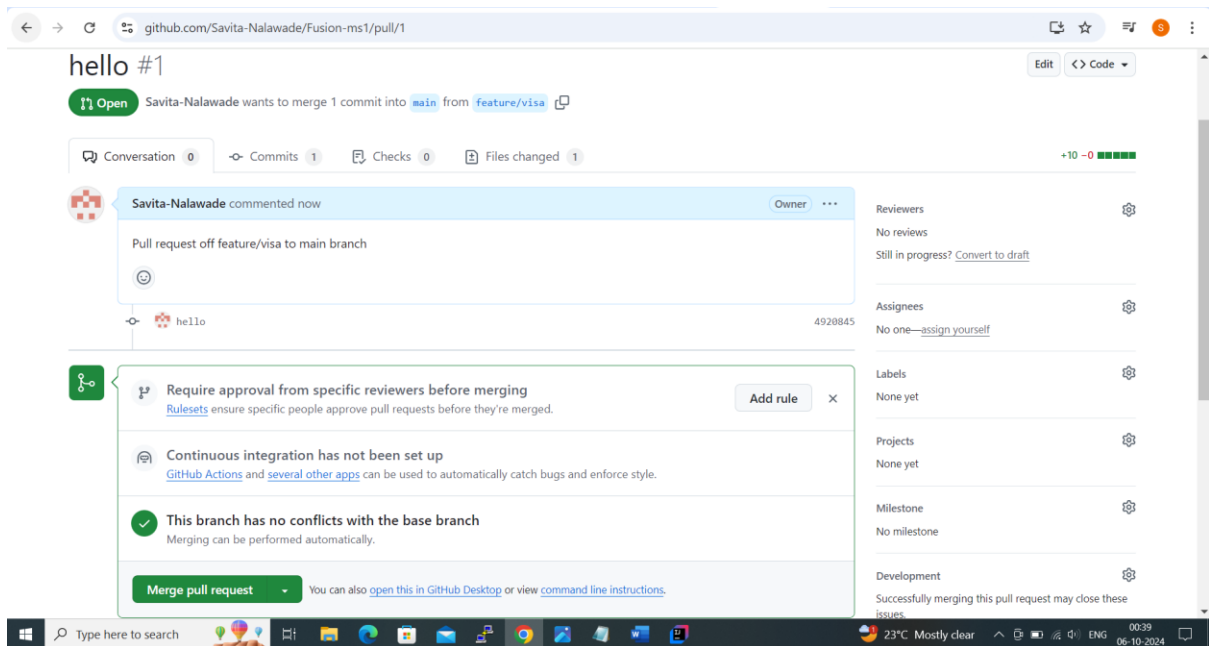
PS C:\MyProject\fusion-ms1> git add --all
PS C:\MyProject\fusion-ms1> git commit -m "hello"
[feature/visa 4920845] hello
 1 file changed, 10 insertions(+)
   create mode 100644 src/main/java/com/example/fusion_ms1/visa.java
PS C:\MyProject\fusion-ms1> git push origin feature/visa
Enumerating objects: 16, done.
Counting objects: 100% (16/16), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (9/9), 777 bytes | 194.00 KiB/s, done.
Total 9 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'feature/visa' on GitHub by visiting:
remote:   https://github.com/Savita-Nalawade/Fusion-ms1/pull/new/feature/visa
remote:
To https://github.com/Savita-Nalawade/Fusion-ms1.git
 * [new branch]      feature/visa -> feature/visa
PS C:\MyProject\fusion-ms1>

```

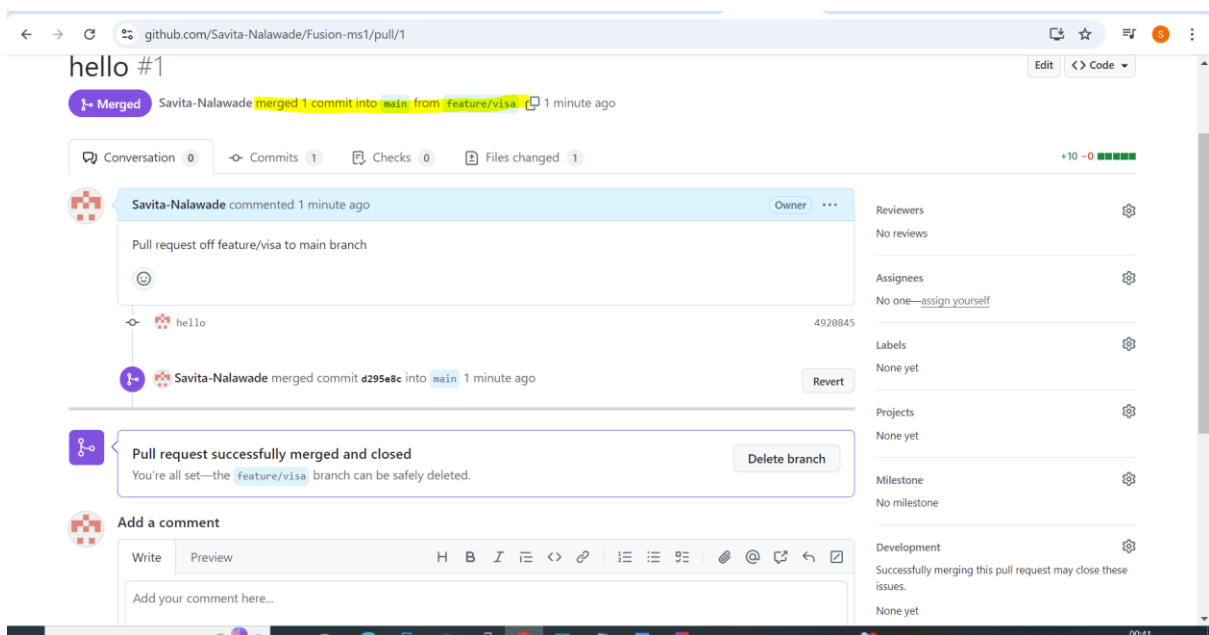
28)now we can get pop-up “compare & pull request”

The screenshot displays the GitHub interface for the repository 'Fusion-ms1' by user 'Savita-Nalawade'. The repository is public. A yellow notification bar at the top indicates that the 'feature/visa' branch has recent pushes. A green button labeled 'Compare & pull request' is visible next to this notification. Below the notification, the repository's branch structure is shown, including 'dev' and '6 Branches'. A message states 'This branch is up to date with main'. At the bottom, a commit by 'Savita-Nalawade' with the hash '6284c4f' and the message 'coderefactor' is displayed, showing it was committed 2 hours ago.

29)clicked on that and pull request, then click on merge pull request



30)here. We can see “feature/visa” branch is merged to “main” branch



Code is there

Savita-Nalawade / Fusion-ms1

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Merge pull request #1 from Savita-Nalawade/feature/visa

Savita-Nalawade authored 7 hours ago (Verified)

hello

main (#1)

2 parents 6284c4f + 4928845 commit d295e8c

Filter files...

src/main/java/com/example/fusion_ms1/visa.java

1 file changed +10 -0 lines changed

```
@@ -0,0 +1,10 @@
1 + package com.example.fusion_ms1;
2 +
3 + import org.springframework.web.bind.annotation.GetMapping;
4 + import org.springframework.web.bind.annotation.RestController;
5 +
6 + @RestController
7 + public class visa {
8 +     @GetMapping("/visa")
9 +     public String getData() {return "Please take your visa" ; }
10 + }
```

Type here to search

23°C Partly sunny

08:25 06-10-2024

Thanks you!!!!