

## Práctica 02 Comandos Git Flow a nivel local

Realizar el ejercicio mediante línea de comandos en Windows, Linux o Mac

- Crear una carpeta llamada **gitpracticaflow** e inicializar el repositorio con el comando correspondiente tomando en cuenta qué existen dos ramas: **main y develop**

➔ *git init flow*

```
C:\Windows\system32\cmd.e  X  +  v
Microsoft Windows [Versión 10.0.22621.1778]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\topd0>mkdir gitpracticaflow

C:\Users\topd0>cd gitpracticaflow

C:\Users\topd0\gitpracticaflow>git flow init
Initialized empty Git repository in C:/Users/topd0/gitpracticaflow/.git/
No branches exist yet. Base branches must be created now.
Branch name for production releases: [master] main
Branch name for "next release" development: [develop]

How to name your supporting branch prefixes?
Feature branches? [feature/]
Bugfix branches? [bugfix/]
Release branches? [release/]
Hotfix branches? [hotfix/]
Support branches? [support/]
Version tag prefix? [] 1.
Hooks and filters directory? [C:/Users/topd0/gitpracticaflow/.git/hooks]

C:\Users\topd0\gitpracticaflow>
```

- Comprueba el estado del repositorio a través del comando correspondiente.

➔ *git status*

```
C:\Users\topd0\gitpracticaflow>git status
On branch develop
nothing to commit, working tree clean

C:\Users\topd0\gitpracticaflow>
```

➔ git branch

```
C:\Users\topd0\gitpracticaflow>git branch
* develop
main
```

- Crear una nueva funcionalidad llamada **fun-login** utilizando el patrón MVC y los comandos correspondientes de **gitflow**

➔ git flow feature start fun-login

```
C:\Users\topd0\gitpracticaflow>git flow feature start fun-login
Switched to a new branch 'feature/fun-login'

Summary of actions:
- A new branch 'feature/fun-login' was created, based on 'develop'
- You are now on branch 'feature/fun-login'

Now, start committing on your feature. When done, use:

    git flow feature finish fun-login

C:\Users\topd0\gitpracticaflow>git branch
develop
* feature/fun-login
main

C:\Users\topd0\gitpracticaflow>
```

- Crea tres carpetas llamadas: **model, views y controller**.

➔ mkdir model  
➔ mkdir views  
➔ mkdir controller

```
C:\Users\topd0\gitpracticaflow>mkdir model

C:\Users\topd0\gitpracticaflow>mkdir views

C:\Users\topd0\gitpracticaflow>mkdir controller
```

- Agregar un archivo para cada carpeta
  - Model: **ModelLoginDTO.java**
  - Views: **viewLogin.html**
  - Controller: **ControllerLogin.java**

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- ➔ copy con ModelLoginDTO.java
- ➔ copy con viewLogin.html
- ➔ copy con ControllerLogin.java

```
C:\Users\topd0\gitpracticaflow>cd model

C:\Users\topd0\gitpracticaflow\model>copy con ModelLoginDTO.java
^Z
    1 archivo(s) copiado(s).

C:\Users\topd0\gitpracticaflow\model>cd ..

C:\Users\topd0\gitpracticaflow>cd views

C:\Users\topd0\gitpracticaflow\views>copy con viewLogin.html
^Z
    1 archivo(s) copiado(s).

C:\Users\topd0\gitpracticaflow\views>cd ..

C:\Users\topd0\gitpracticaflow>cd controller

C:\Users\topd0\gitpracticaflow\controller>copy con ControllerLogin.java
^Z
    1 archivo(s) copiado(s).

C:\Users\topd0\gitpracticaflow\controller>
```

- Finaliza la funcionalidad

- ➔ git flow feature finish fun-login

```
C:\Users\topd0\gitpracticaflow>git status
On branch feature/fun-login
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    controller/
    model/
    views/

nothing added to commit but untracked files present (use "git add" to track)

C:\Users\topd0\gitpracticaflow>git add .

C:\Users\topd0\gitpracticaflow>git status
On branch feature/fun-login
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   controller/ControllerLogin.java
    new file:   model/ModelLoginDTO.java
    new file:   views/viewLogin.html

C:\Users\topd0\gitpracticaflow>git commit -m "commit init"
[feature/fun-login e4cd5c1] commit init
3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 controller/ControllerLogin.java
create mode 100644 model/ModelLoginDTO.java
create mode 100644 views/viewLogin.html

C:\Users\topd0\gitpracticaflow>git flow feature finish fun-login
Switched to branch 'develop'
Updating eeffdd7..e4cd5c1
Fast-forward
 controller/ControllerLogin.java | 0
 model/ModelLoginDTO.java       | 0
 views/viewLogin.html           | 0
3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 controller/ControllerLogin.java
create mode 100644 model/ModelLoginDTO.java
create mode 100644 views/viewLogin.html
Deleted branch feature/fun-login (was e4cd5c1).

Summary of actions:
- The feature branch 'feature/fun-login' was merged into 'develop'
- Feature branch 'feature/fun-login' has been locally deleted
- You are now on branch 'develop'
```

- Verificar las diferencias entre las ramas **main** y **develop**

➔ git diff main..develop

```
C:\Windows\system32\cmd.e X + v

C:\Users\topd0\gitpracticaflow>git branch
* develop
  main

C:\Users\topd0\gitpracticaflow>git diff main..develop
diff --git a/controller/ControllerLogin.java b/controller/ControllerLogin.java
new file mode 100644
index 0000000..e69de29
diff --git a/model/ModelLoginDTO.java b/model/ModelLoginDTO.java
new file mode 100644
index 0000000..e69de29
diff --git a/views/viewLogin.html b/views/viewLogin.html
new file mode 100644
index 0000000..e69de29

C:\Users\topd0\gitpracticaflow>
```

- Crear una modificación a la funcionalidad fun-login
  - **ModelLoginDTO.java** agregar la instrucción `public class modelLoginDTO {}`
  - **viewsLogin.html** agregar la instrucción `<h1> Estoy entre ramas </h1>`
  - **ControlleLogin.java** agregar la instrucción `public class controlleLogin.java{}`

```
C:\Users\topd0\gitpracticaflow\model>notepad ModelLoginDTO.java

C:\Users\topd0\gitpracticaflow\model>cd ..

C:\Users\topd0\gitpracticaflow>cd viewa
El sistema no puede encontrar la ruta especificada.

C:\Users\topd0\gitpracticaflow>cd views

C:\Users\topd0\gitpracticaflow\views>notepad viewLogin.html

C:\Users\topd0\gitpracticaflow\views>cd ..

C:\Users\topd0\gitpracticaflow>cd controller

C:\Users\topd0\gitpracticaflow\controller>notepad ControllerLogin.java

C:\Users\topd0\gitpracticaflow\controller>notepad ControllerLogin.java

C:\Users\topd0\gitpracticaflow\controller>
```

- Guardar los cambios al Stanging Area  
➔ `git add .`

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```
C:\Windows\system32\cmd.e X + v

C:\Users\topd0\gitpracticaflow>git status
On branch develop
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   controller/ControllerLogin.java
        modified:   model/ModelLoginDTO.java
        modified:   views/viewLogin.html

no changes added to commit (use "git add" and/or "git commit -a")

C:\Users\topd0\gitpracticaflow>git add .

C:\Users\topd0\gitpracticaflow>git status
On branch develop
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   controller/ControllerLogin.java
        modified:   model/ModelLoginDTO.java
        modified:   views/viewLogin.html

C:\Users\topd0\gitpracticaflow>
```

- Verificar la historia de los commits

```
C:\Users\topd0\gitpracticaflow>git status
On branch develop
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   controller/ControllerLogin.java
        modified:   model/ModelLoginDTO.java
        modified:   views/viewLogin.html

C:\Users\topd0\gitpracticaflow>git commit -m "modificaciones a funcionalidad"
[develop 1882ee5] modificaciones a funcionalidad
 3 files changed, 3 insertions(+)

C:\Users\topd0\gitpracticaflow>
```

➔ git log

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```
C:\Users\topd0\gitpracticaflow>git log
commit 1882ee54f4b88b825488c28589db5cc49731c2ee (HEAD -> develop)
Author: DiegoTorresP <1220100050@alumnos.utng.edu.mx>
Date:   Fri May 26 16:53:58 2023 -0600

    modificaciones a funcionalidad

commit e4cd5c15f4bb32d42a98fbb47f05ac9e6a172821
Author: DiegoTorresP <1220100050@alumnos.utng.edu.mx>
Date:   Fri May 26 16:39:32 2023 -0600

    commit init

commit eeffdd71899c4ec87f1af2734f66a5acdf0b0c13 (main)
Author: DiegoTorresP <1220100050@alumnos.utng.edu.mx>
Date:   Fri May 26 16:23:13 2023 -0600

    Initial commit

C:\Users\topd0\gitpracticaflow>
```

- Verificar las diferencias entre las ramas main y develop a través del comando

➔ `git diff main..develop`

```
C:\Windows\system32\cmd.e X + v

C:\Users\topd0\gitpracticaflow>git diff main..develop
diff --git a/controller/ControllerLogin.java b/controller/ControllerLogin.java
new file mode 100644
index 0000000..c3eab7a
--- /dev/null
+++ b/controller/ControllerLogin.java
@@ -0,0 +1 @@
+public class controlleLogin.java{}
\ No newline at end of file
diff --git a/model/ModelLoginDTO.java b/model/ModelLoginDTO.java
new file mode 100644
index 0000000..1882f6c
--- /dev/null
+++ b/model/ModelLoginDTO.java
@@ -0,0 +1 @@
+public class modelLoginDTO {}
\ No newline at end of file
diff --git a/views/viewLogin.html b/views/viewLogin.html
new file mode 100644
index 0000000..feb9562
--- /dev/null
+++ b/views/viewLogin.html
@@ -0,0 +1 @@
+<h1> Estoy entre ramas </h1>
\ No newline at end of file

C:\Users\topd0\gitpracticaflow>
```

- Iniciar una liberación con la versión 1.0 como prefijo
- Iniciar la liberación con el sufijo “.1”.

➔ `git flow release start '1.0.1'`

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```
C:\Users\topd0\gitpracticaflow>git flow release start '1.0'
Switched to a new branch 'release/1.0'

Summary of actions:
- A new branch 'release/1.0' was created, based on 'develop'
- You are now on branch 'release/1.0'

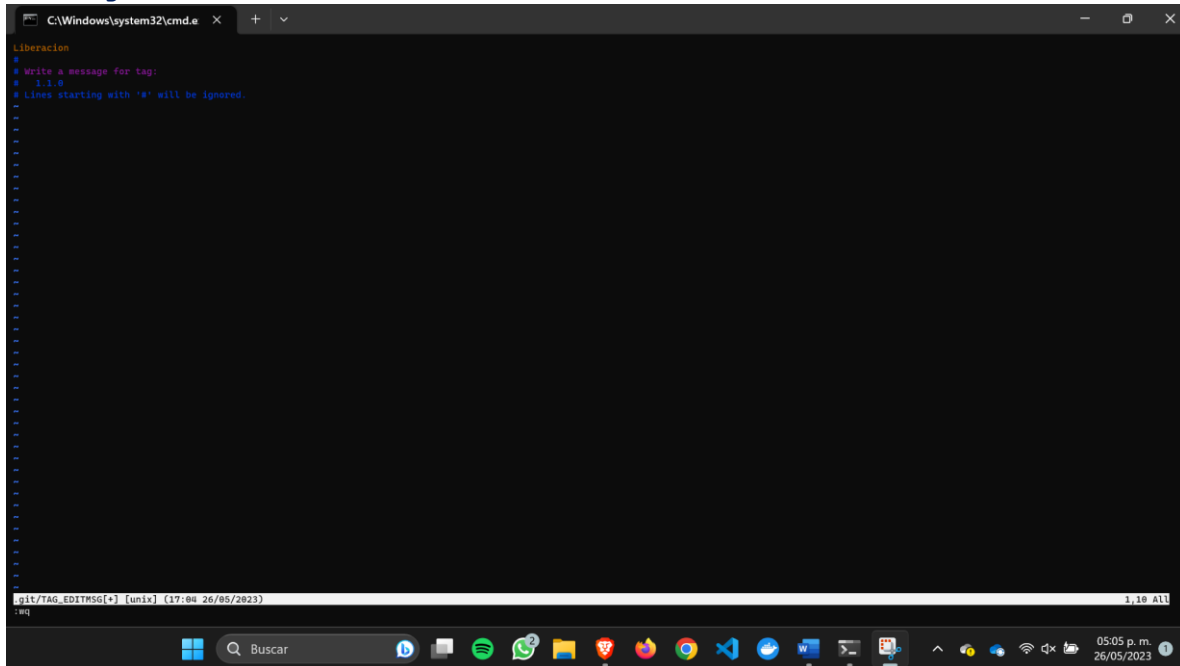
Follow-up actions:
- Bump the version number now!
- Start committing last-minute fixes in preparing your release
- When done, run:

    git flow release finish '1.0'

C:\Users\topd0\gitpracticaflow>git branch
develop
main
* release/1.0

C:\Users\topd0\gitpracticaflow>
```

- Finalizar la liberación  
➔ **git flow release**





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```
C:\Users\topd0\gitpracticaflow>git flow release finish '1.0'
Switched to branch 'main'
Merge made by the 'ort' strategy.
 controller/ControllerLogin.java | 1 +
 model/ModelLoginDTO.java       | 1 +
 views/viewLogin.html           | 1 +
 3 files changed, 3 insertions(+)
 create mode 100644 controller/ControllerLogin.java
 create mode 100644 model/ModelLoginDTO.java
 create mode 100644 views/viewLogin.html
Already on 'main'
Switched to branch 'develop'
Merge made by the 'ort' strategy.
Deleted branch release/1.0 (was 1882ee5).

Summary of actions:
- Release branch 'release/1.0' has been merged into 'main'
- The release was tagged '1.1.0'
- Release tag '1.1.0' has been back-merged into 'develop'
- Release branch 'release/1.0' has been locally deleted
- You are now on branch 'develop'

C:\Users\topd0\gitpracticaflow>
```

- Verificar las diferencias entre las ramas main y develop a través del comando  
➔ `git diff main..develop`

```
C:\Users\topd0\gitpracticaflow>git diff main..develop

C:\Users\topd0\gitpracticaflow>
```