**1. Create a Git Flow Workflow Architecture on Git**

Git Flow is a branching model for Git that defines a strict branching structure for projects. Here's how to set it up:

1. **Master**: The stable branch that holds the production-ready code.
2. **Develop**: The integration branch where features are merged before going to the master.
3. **Feature**: A branch created for a specific feature development.
4. **Release**: A branch created to prepare a new production release.
5. **Hotfix**: A branch created for urgent fixes that need to go directly to production.

**2. Create All the Required Branches**

Start by initializing a Git repository and creating the develop branch.

mkdir git\_project

cd git\_project

git init

# Create the develop branch

git checkout -b develop

# Create a feature branch from develop

git checkout -b feature/some-feature develop

# Push develop to remote (optional)

git push origin develop

**3. Starting from the Feature Branch, Push the Branch to the Master, Following the Architecture**

1. Develop your feature in the feature/some-feature branch:

echo "Feature implementation" > feature.txt

git add feature.txt

git commit -m "Add feature.txt with feature implementation"

1. Merge the feature branch into develop:

git checkout develop

git merge --no-ff feature/some-feature

git commit -m "Merge feature/some-feature into develop"

1. Create a release branch from develop and merge it into master:

git checkout -b release/v1.0 develop

# (Optional) Final tweaks in the release branch

git commit -am "Final tweaks for release v1.0"

# Merge the release branch into master

git checkout master

git merge --no-ff release/v1.0

git commit -m "Release v1.0"

# Tag the release

git tag -a v1.0 -m "Release v1.0"

# Push the master branch and the tag

git push origin master

git push origin v1.0

1. Merge the release/v1.0 branch back into develop:

git checkout develop

git merge --no-ff release/v1.0

git commit -m "Merge release/v1.0 into develop"

git branch -d release/v1.0

**4. Push an urgent.txt on Master Using Hotfix**

1. Create a hotfix branch from master:

git checkout master

git checkout -b hotfix/urgent-fix

1. Make your urgent fix in the hotfix/urgent-fix branch:

echo "Urgent fix content" > urgent.txt

git add urgent.txt

git commit -m "Add urgent.txt with urgent fix"

1. Merge the hotfix branch into master:

git checkout master

git merge --no-ff hotfix/urgent-fix

git commit -m "Merge hotfix/urgent-fix into master"

git push origin master

1. Merge the hotfix back into develop:

git checkout develop

git merge --no-ff hotfix/urgent-fix

git commit -m "Merge hotfix/urgent-fix into develop"

git branch -d hotfix/urgent-fix

git push origin develop

**Summary of Git Commands:**

* **mkdir git\_project**
* **cd git\_project**
* **git init**
* **# Create branches**
* **git checkout -b develop**
* **git checkout -b feature/some-feature develop**
* **# Work on feature branch**
* **echo "Feature implementation" > feature.txt**
* **git add feature.txt**
* **git commit -m "Add feature.txt with feature implementation"**
* **# Merge feature into develop**
* **git checkout develop**
* **git merge --no-ff feature/some-feature**
* **git commit -m "Merge feature/some-feature into develop"**
* **# Create release branch and merge to master**
* **git checkout -b release/v1.0 develop**
* **git commit -am "Final tweaks for release v1.0"**
* **git checkout master**
* **git merge --no-ff release/v1.0**
* **git commit -m "Release v1.0"**
* **git tag -a v1.0 -m "Release v1.0"**
* **git push origin master**
* **git push origin v1.0**
* **# Merge release branch back into develop**
* **git checkout develop**
* **git merge --no-ff release/v1.0**
* **git branch -d release/v1.0**
* **# Create hotfix branch and apply fix**
* **git checkout master**
* **git checkout -b hotfix/urgent-fix**
* **echo "Urgent fix content" > urgent.txt**
* **git add urgent.txt**
* **git commit -m "Add urgent.txt with urgent fix"**
* **git checkout master**
* **git merge --no-ff hotfix/urgent-fix**
* **git commit -m "Merge hotfix/urgent-fix into master"**
* **git push origin master**
* **# Merge hotfix into develop**
* **git checkout develop**
* **git merge --no-ff hotfix/urgent-fix**
* **git commit -m "Merge hotfix/urgent-fix into develop"**
* **git branch -d hotfix/urgent-fix**
* **git push origin develop**