

## 1. Repository Initialization

- Created a new Git repository for the project.
- Set up the `main` branch as your production-ready baseline.

```
malvikabhadoriya@Malvikas-MacBook-Air Desktop % cd DevOps_Practice
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % code .
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git add main.py
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git commit -m "Initial commit on main: base greeting program"
[main c18e1e3] Initial commit on main: base greeting program
1 file changed, 5 insertions(+)
create mode 100644 main.py
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git branch -M main
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git checkout -b develop
Switched to a new branch 'develop'
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git remote add origin https://github.com/Malvericus/DevOps_Practice.git
error: remote origin already exists.
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 389 bytes | 389.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Malvericus/DevOps_Practice.git
0bb44c2..c18e1e3  main -> main
branch 'main' set up to track 'origin/main'.
```

## 2. Created the `develop` Branch

- Branched off `main` to start the integration branch (`develop`), where all feature work is accumulated before going into production.

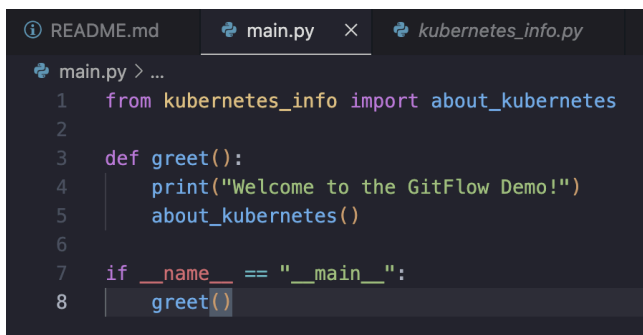
## 3. Developed a New Feature

- Created the branch `feature/add-kubernetes-support` from `develop`.
- Added a new module/file (`kubernetes\_info.py`) with the function `about\_kubernetes()`.

```
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git checkout develop
M
 README.md
Switched to branch 'develop'
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git checkout -b feature/add-kubernetes-support
Switched to a new branch 'feature/add-kubernetes-support'
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % touch kubernetes_info.py
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git add kubernetes_info.py
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git commit -m "Add about_kubernetes function"
[feature/add-kubernetes-support 4002672] Add about_kubernetes function
1 file changed, 2 insertions(+)
create mode 100644 kubernetes_info.py
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git push -u origin feature/add-kubernetes-support
Enumerating objects: 4, done.
```

## 4. Integrated the Feature

- Modified `main.py` to import and call the new Kubernetes function, ensuring the feature is usable and visible.
- Committed the changes on the feature branch.



```
main.py > ...
1  from kubernetes_info import about_kubernetes
2
3  def greet():
4      print("Welcome to the GitFlow Demo!")
5      about_kubernetes()
6
7  if __name__ == "__main__":
8      greet()
```

## 5. Merged Feature Branch to Develop

- Merged `feature/add-kubernetes-support` into `develop`, following best practice for feature integration.
- Resolved (if needed) any conflicts and pushed the updated `develop` branch.

## 6. Tested the Integration

- On your `develop` branch, ran the code to confirm the new function works as intended.

```
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git checkout develop
Switched to branch 'develop'
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git pull origin develop
From https://github.com/Malvericus/DevOps_Practice
 * branch                develop      -> FETCH_HEAD
Already up to date.
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git merge feature/add-kubernetes-support
Updating c18e1e3..4eefaa9
Fast-forward
 README.md      | 14 ++++++++
 kubernetes_info.py | 2 ++
 main.py        | 5 +++-
 3 files changed, 19 insertions(+), 2 deletions(-)
 create mode 100644 kubernetes_info.py
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 399 bytes | 399.00 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/Malvericus/DevOps_Practice.git
 c18e1e3..4eefaa9 develop -> develop
malvikabhadoriya@Malvikas-MacBook-Air DevOps_Practice % python3 main.py
Welcome to the GitFlow Demo!
Kubernetes manages containerized applications at large scales.
```

[https://github.com/Malvericus/DevOps\\_Practice/tree/main](https://github.com/Malvericus/DevOps_Practice/tree/main)

DevOps\_Practice Public

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develop had recent pushes 3 minutes ago Compare & pull request

feature/add-kubernetes-support had recent pushes 1 minute ago Compare & pull request

main 3 Branches 0 Tags

Go to file t Add file <> Code

Switch branches/tags

Find or create a branch...

Branches Tags

✓ main default

develop

feature/add-kubernetes-support

View all branches

6a590d2 · 39 minutes ago 3 Commits

Update ReadMe 39 minutes ago

Initial commit on main: base greeting program 3 hours ago

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