

just enough





GIT

- What is GIT?
- Install GIT
- GIT Repositories
- Remote Repositories
- Clone, Pull & Push
- GIT vs GITHUB

```
main.py
                                                       from flask import Flask
                                                       app = Flask( name )
my-application
                                                       app_color = 'Blue'
LICENSE
                                                       @app.route(':/(')
   README.md
                                                       def hello():
                                                           return 'Hello, World!'
   requirements.txt
main.py 🐣
                                                       @app.route('/user/<username>')
                                                       def show user profile(username):
                                                           return 'User %s' % escape(username)
                                                       @app.route('/post/<int:post_id>')
                                                       def show_post(post_id):
                                                           return 'Post %d' % post_id
                                                       @app.route('/path/<path:subpath>')
                                                       def show_subpath(subpath):
                                                           # show the subpath after /path/
                                                           return 'Subpath %s' % escape(subpath)
```



Source Control Management (SCM)

Version Control Systems (VCS)

```
my-application
LICENSE
  README.md
  requirements.txt
  main.py 🚢 🚢
utils.py 🐣
  db.py 🚨
  backend.py 💄
ache.py 🐣
  notes.txt 🐣
```

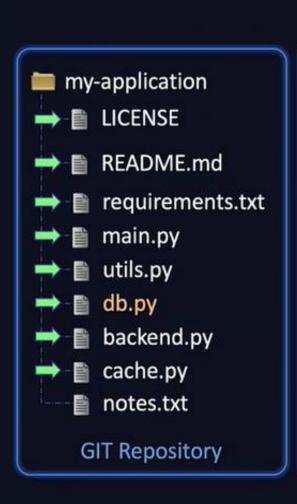
What changes were made?

When where they made?

By whom where they made?

```
main.py
from flask import Flask
app = Flask( name
app color =
@app.route('/')
def hello():
           'Welcome to the community!
    return
@app.route('/user/<username>')
def show_user_profile(username):
    return 'User %s' % escape(username)
@app.route('/post/<int:post id>')
def show post(post id):
            'Post Number %d' % post id
@app.route('/path/<path:subpath>')
def show_subpath(subpath):
    # show the subpath after /path/
    return
            'Subpath %s' % escape(subpath)
```





main.py Version 1 backend.py cache.py Version 2

utils.py Version 3 Staging

Initialize a GIT Repository
 Configure Files To Track

3. Git Tracks Changes

4. Stage Changes

5. Commit Changes



- my-application
 - LICENSE
 - README.md
 - requirements.txt
 - main.py
 - utils.py
 - db.py
 - backend.py
 - ache.py
 - notes.txt

GIT Repository

- yum install git
- git version

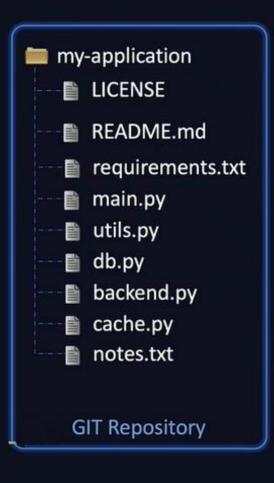
git version 1.8.3.1

git init

Initialized empty Git repository in my-application/.git/

- 0. Install GIT
- 1. Initialize a GIT Repository
- 2. Configure Files To Track
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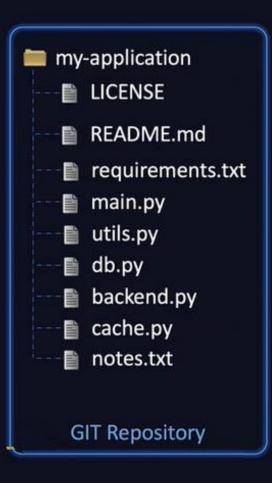




```
git status
On branch master
No commits yet
Untracked files:
LICENSE
README. md
requirements.txt
main.py
utils.py
db.py
backend.py
cache.py
notes.txt
nothing added to commit but untracked files present
```

git add LICENSE README.md main.py ...

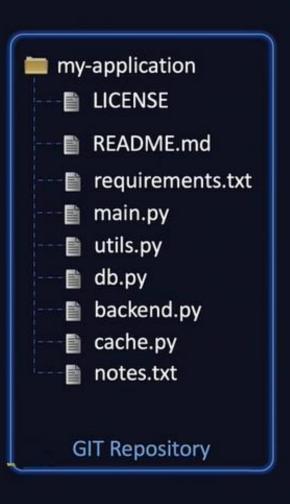
- 0. Install GIT
- 1. Initialize a GIT Repository
- 2. Configure Files To Track
- 3. Git Tracks Changes
- 4. Stage Changes
- 5. Commit Changes



```
git status
On branch master
No commits yet
Changes to be committed:
new file:
           LICENSE
new file:
           README.md
new file:
           backend.py
new file:
           cache.py
new file:
           db.py
new file:
           main.py
new file:
           requirements.txt
new file:
           utils.py
Untracked files:
notes.txt
```

- 0. Install GIT
- 1. Initialize a GIT Repository
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```
git status
On branch master
No commits yet
Changes to be committed:
new file:
           LICENSE
new file:
           README.md
new file:
           backend.py
new file:
           cache.py
new file:
           db.py
           requirements.txt
new file:
new file:
           utils.py
Changes not staged for commit:
modified:
           main.py
Untracked files:
notes.txt
```

0. Install GIT

1. Initialize a GIT Repository

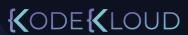
2. Configure Files To Track

3. Git Tracks Changes

4. Stage Changes

5. Commit Changes

git add main.py



- my-application
 - README.md
 - requirements.txt
 - main.py
 - utils.py
 - db.py db.py
 - backend.py
 - cache.py
 - notes.txt

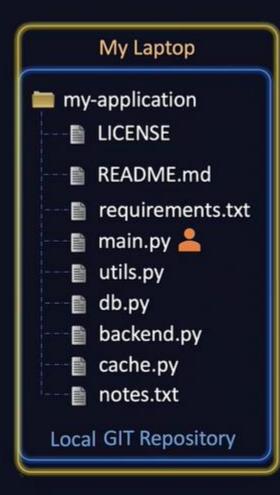
GIT Repository

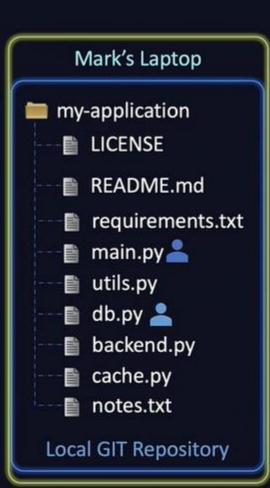
git commit -m "Initial Commit"

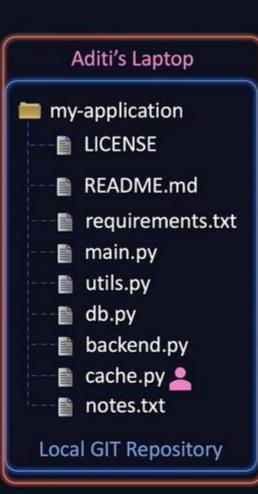
```
[master (root-commit) f5cdb03] Initial commit 8 files changed, 1 insertion(+) create mode 100644 LICENSE create mode 100644 README.md create mode 100644 backend.py create mode 100644 cache.py create mode 100644 db.py create mode 100644 main.py create mode 100644 requirements.txt create mode 100644 utils.py
```

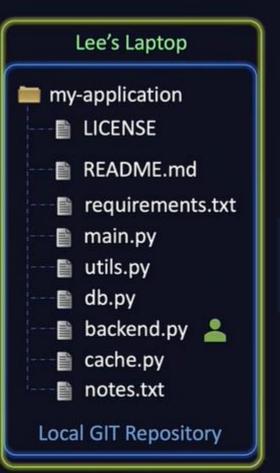
- 0. Install GIT
- 1. Initialize a GIT Repository
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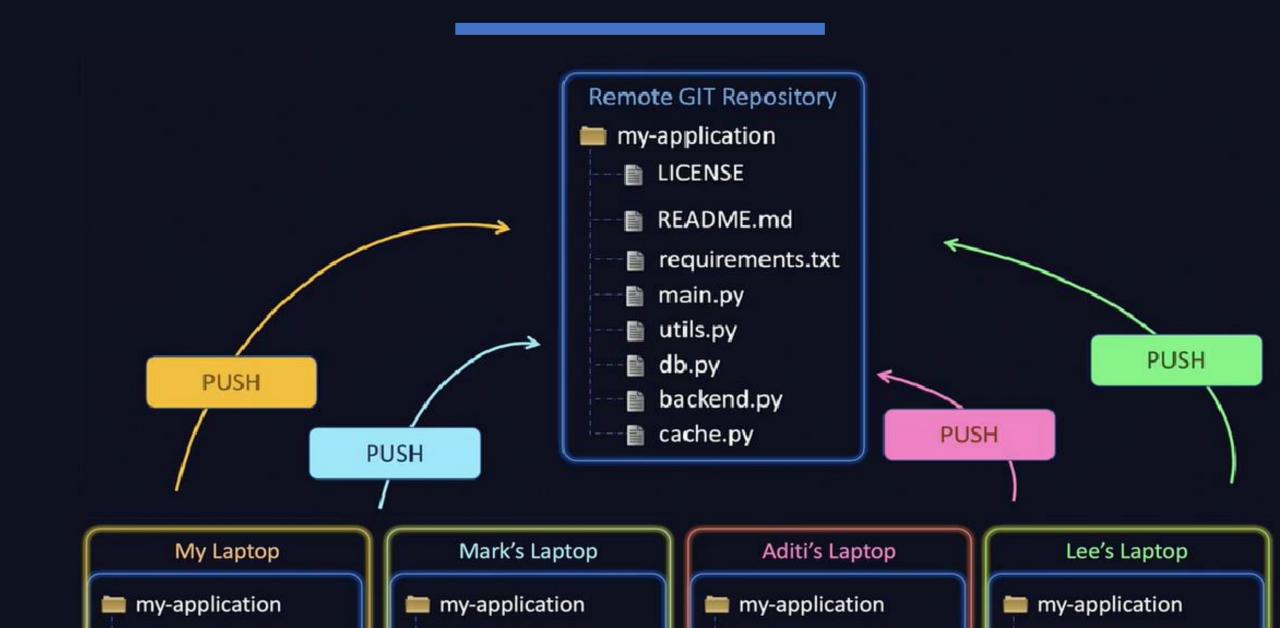


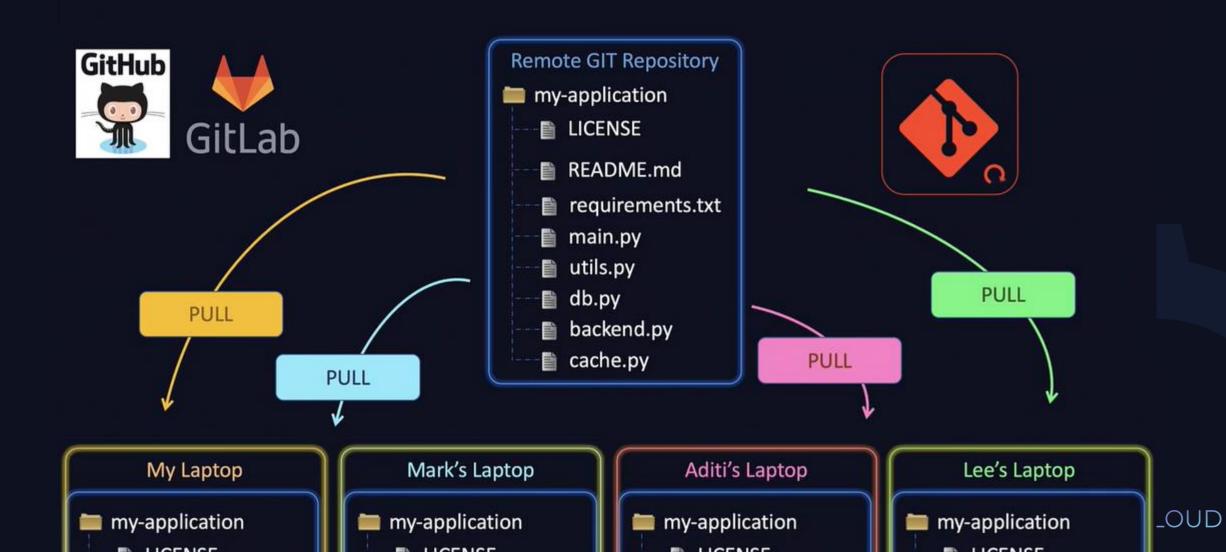








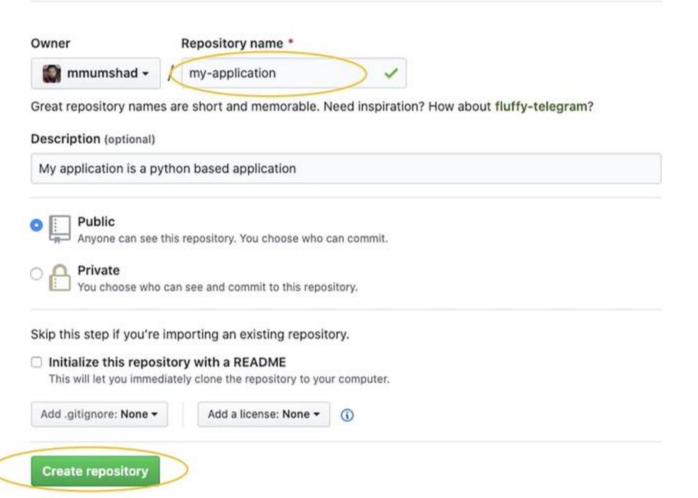






Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.





Push

My Laptop my-application LICENSE README.md requirements.txt main.py 🚣 utils.py db.py backend.py cache.py notes.txt **Local GIT Repository**

git init git add .

git commit -m "Initial Commit"

git remote add <name> <url>

git remote add github
https://github.com/mmumshad/my-application.git

git push <name> <branch>

git push github master

https://github.com/mmumshad/my-application.git





Clone

My Laptop

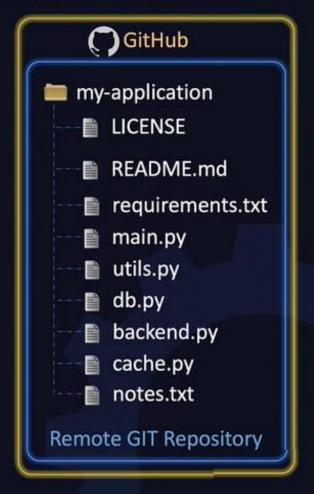
- my-application
 - LICENSE
 - README.md
 - requirements.txt
 - 📲 main.py 🚣
 - utils.py
 - db.py
 - backend.py
- cache.py
- notes.txt

Local GIT Repository

- git remote add <name> <url>
- git remote add github
 https://github.com/mmumshad/my-application.git
- git push <name> <branch>
- git push -u github master

Mark's Laptop

https://github.com/mmumshad/my-application.git





Pull

