

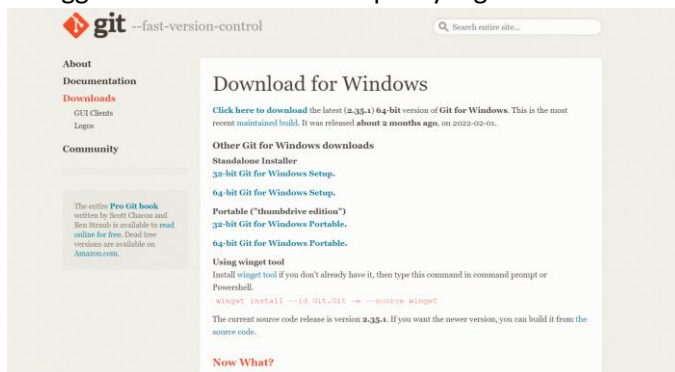
Nama : Fernanda Rizky Sanjaya

Kelas : Mustang-HPE

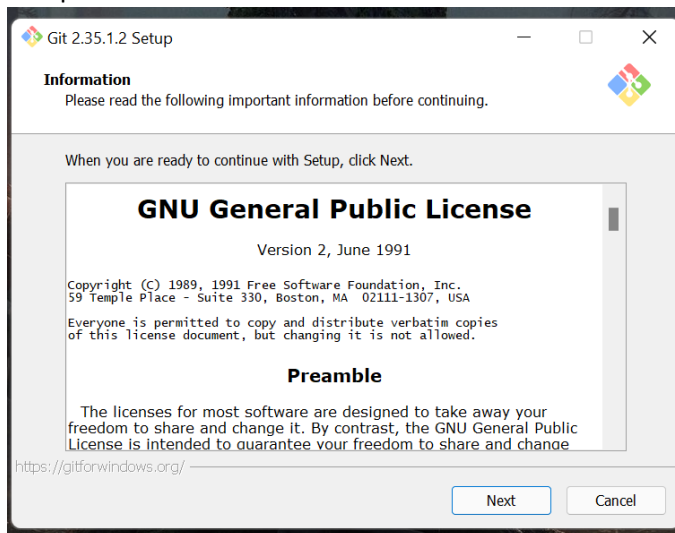
Deployment Streamlit di Heroku

Install git :

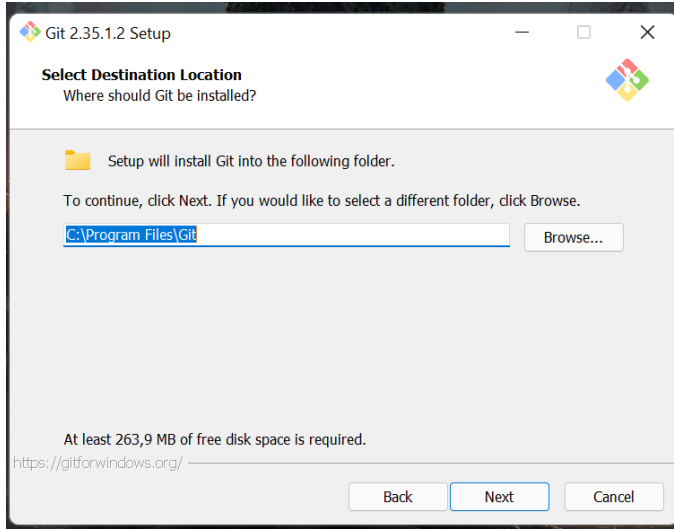
1. Download git <https://git-scm.com/downloads> sesuaikan dengan os yang kita gunakan, disini saya menggunakan windows 64-bit pilih yang standalone.



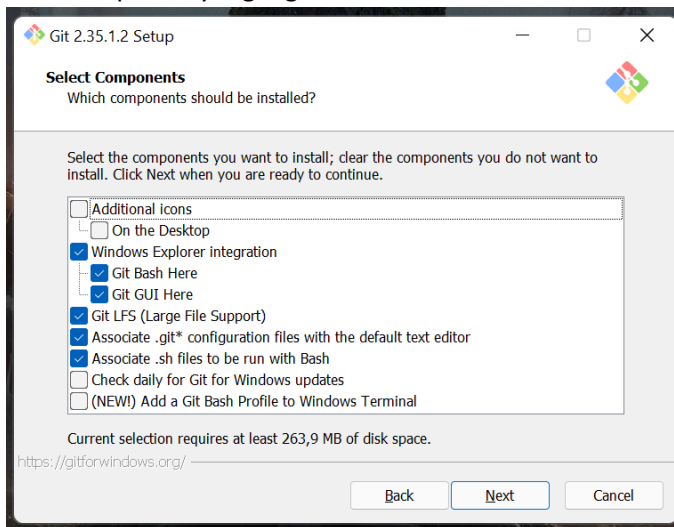
2. Jika proses download telah selesai klik install maka akan muncul tampilan seperti ini klik next



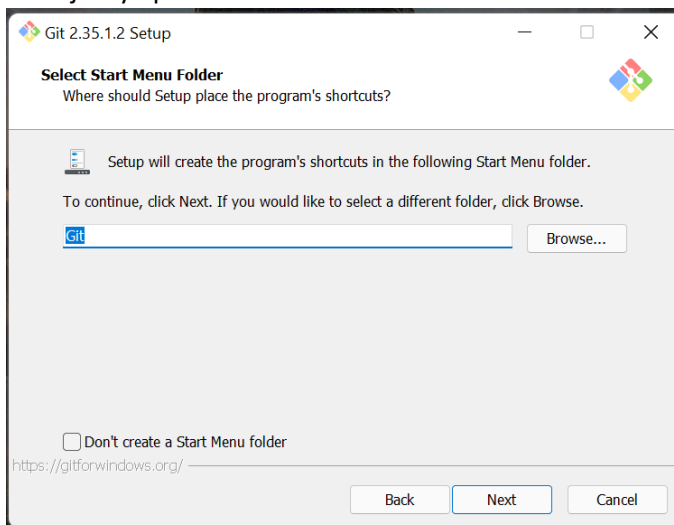
3. Pilih lokasi penyimpanan untuk menyimpan file git -> next



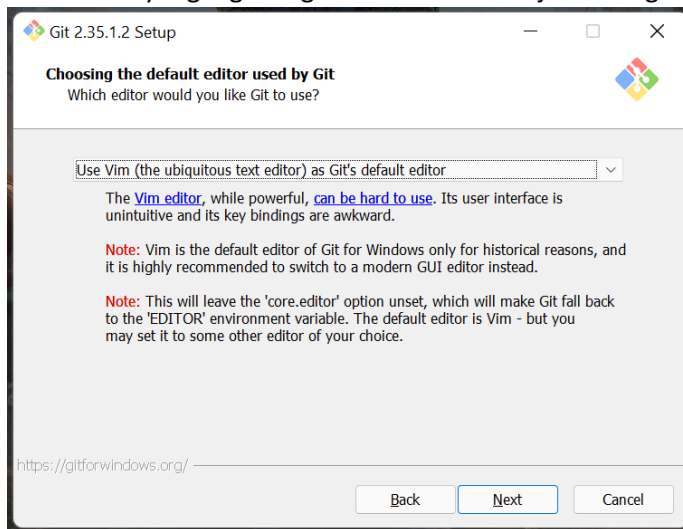
4. Pilih komponen yang ingin di install setelah itu klik next.



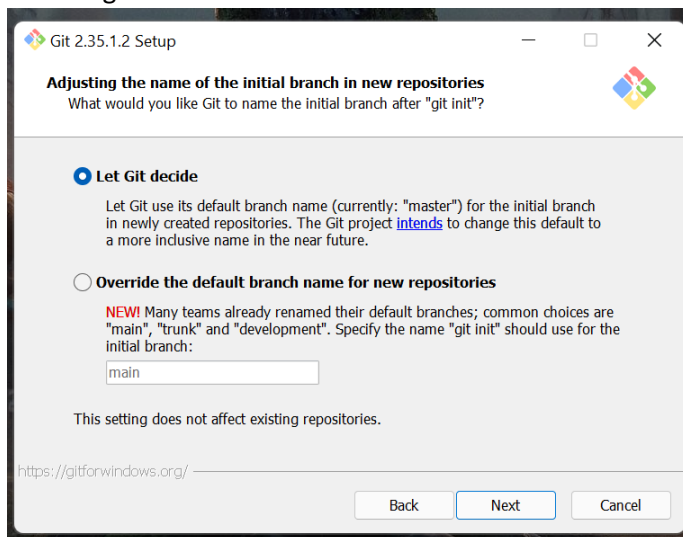
5. Selanjutnya pilih start menu folder -> next.



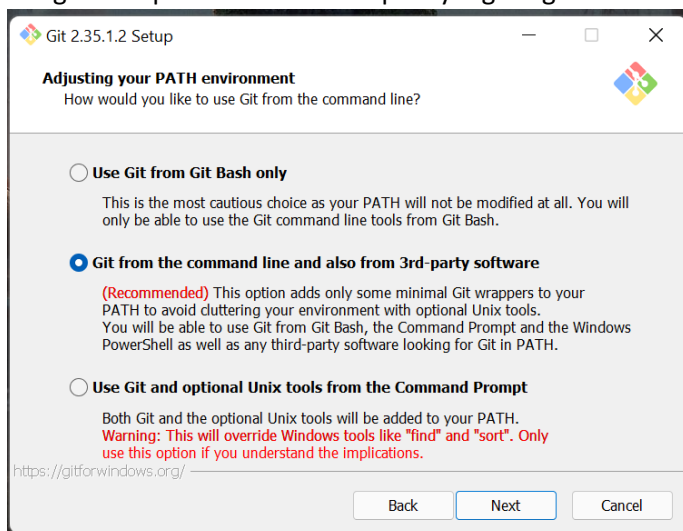
6. Pilih editor yang ingin di gunakan untuk menjalankan git -> next.



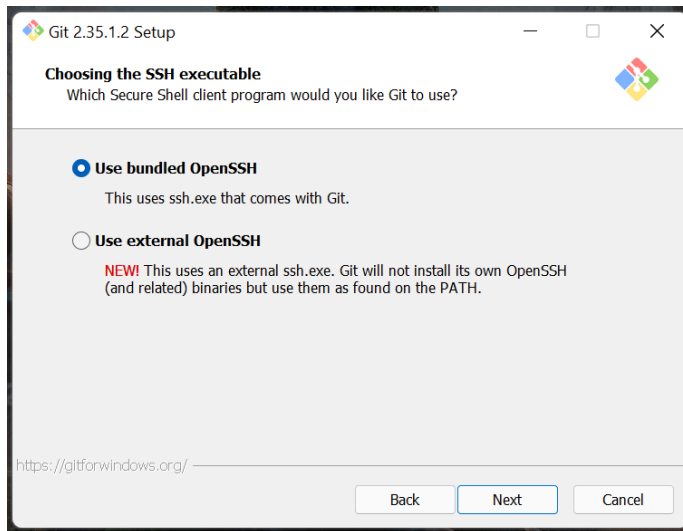
7. Pilih let git decide -> next.



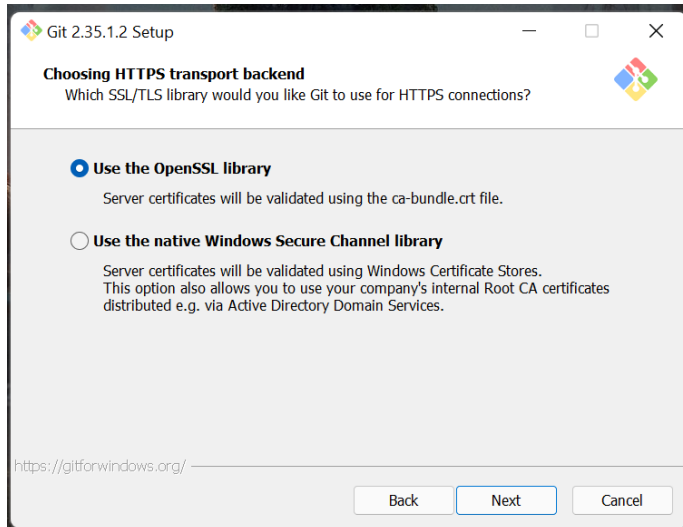
8. Pengaturan path environment pilih yang tengah karena kita akan menjalankan git di cmd -> next.



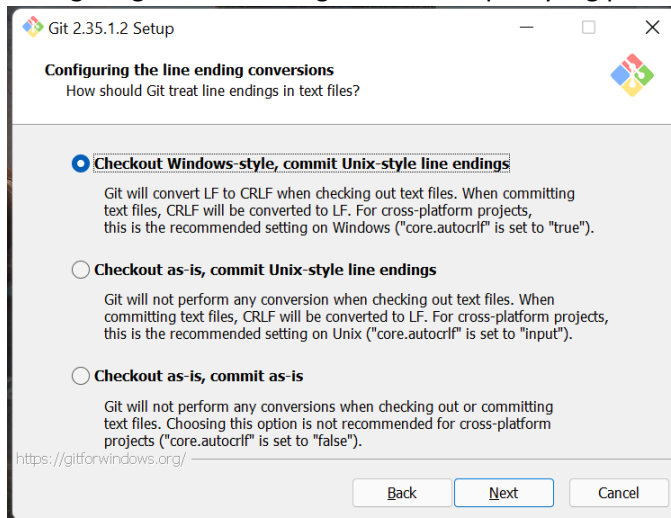
9. Merupakan komponen ssh client yang berjalan di sistem lokal pengguna, pilih use bundled openssh -> next.



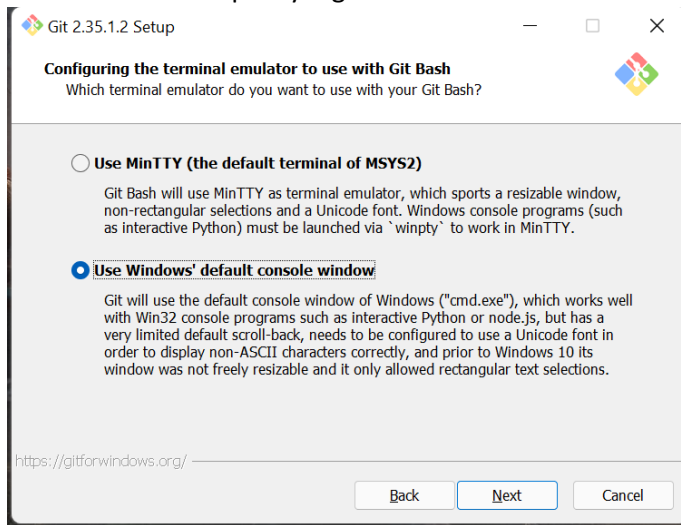
10. Untuk https transport backend pilih open ssh library -> next.



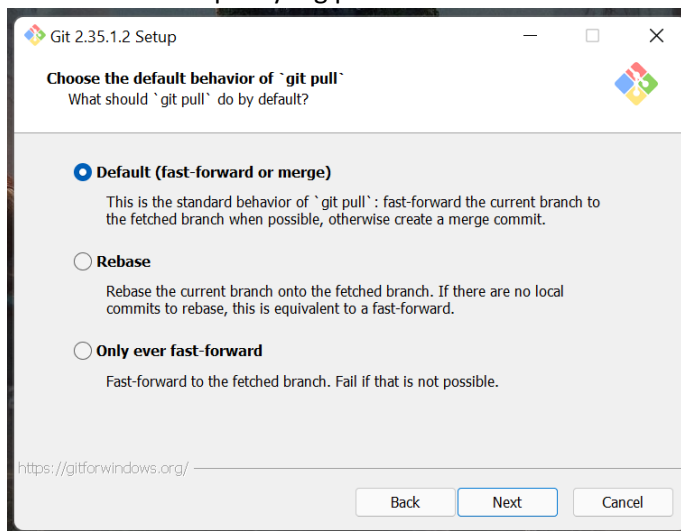
11. Configuring the line ending conversions pilih yang pertama -> next.



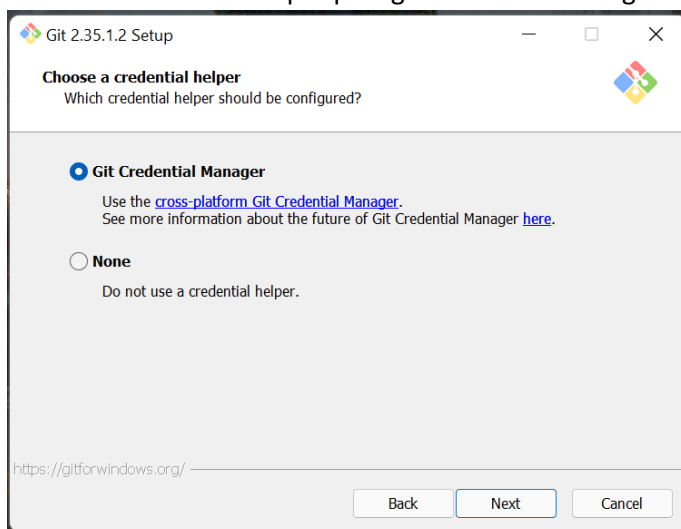
12. Emulator terminal pilih yang use windows -> next.



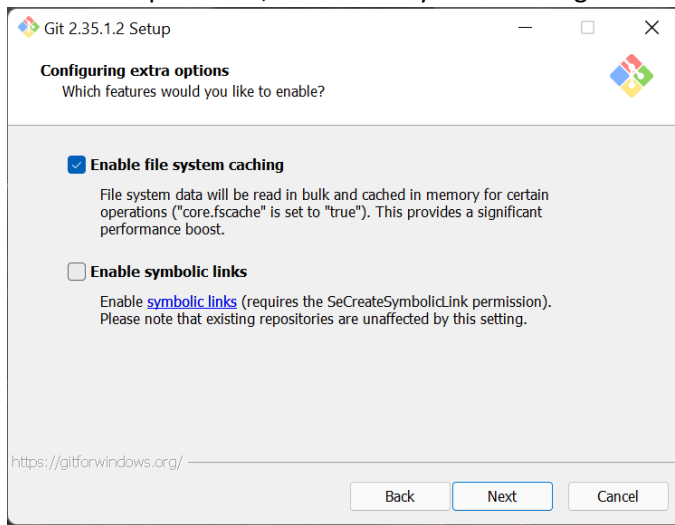
13. Default behavior pilih yang pertama -> next.



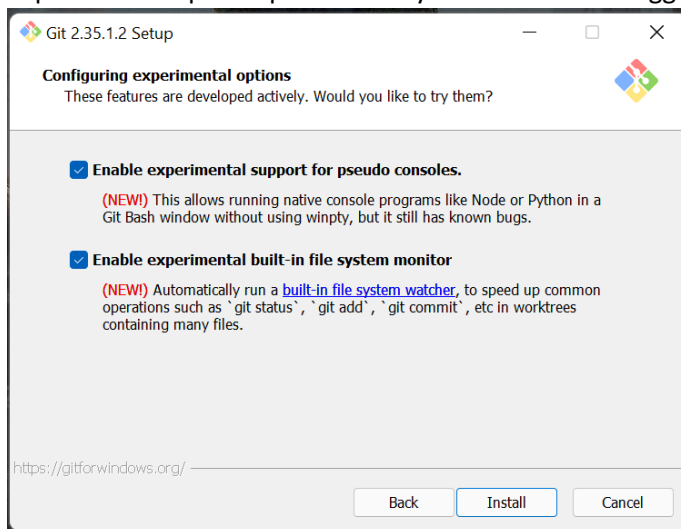
14. Choose a credential helper pilih git credential manager -> next.



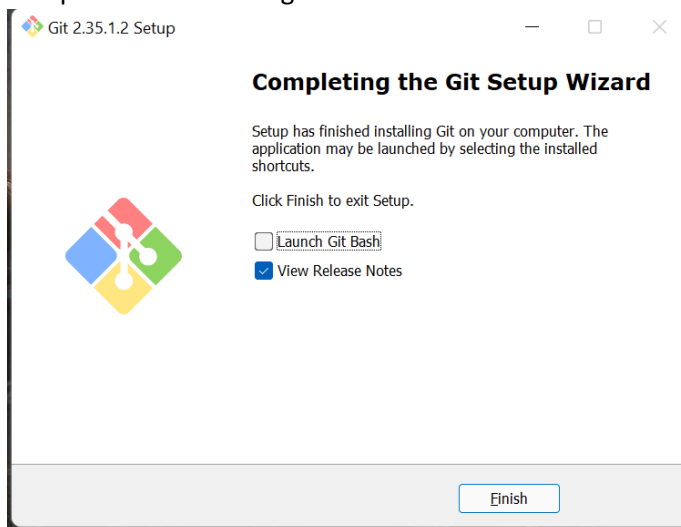
15. Pemilihan opsi ekstra, enable file system caching -> next.



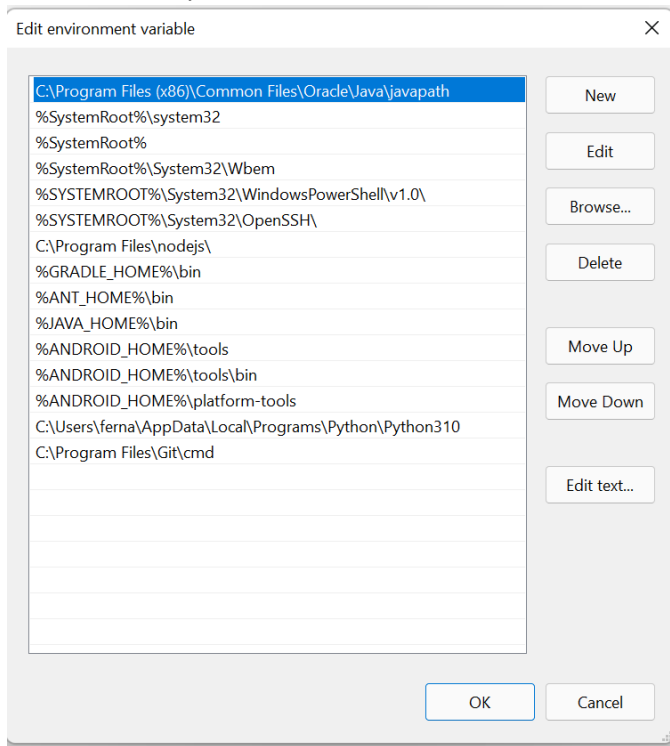
16. Experimental options pilih keduanya -> install dan tunggu hingga proses install selesai.



17. Tampilan ketika install git berhasil.

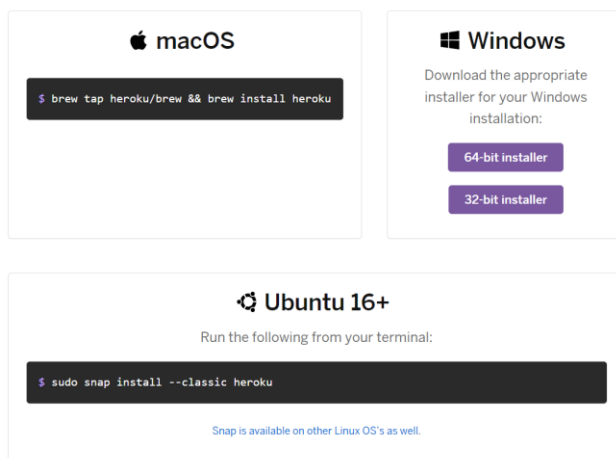


18. Keitik edit the system environment variables -> environment variables -> system variables -> path.

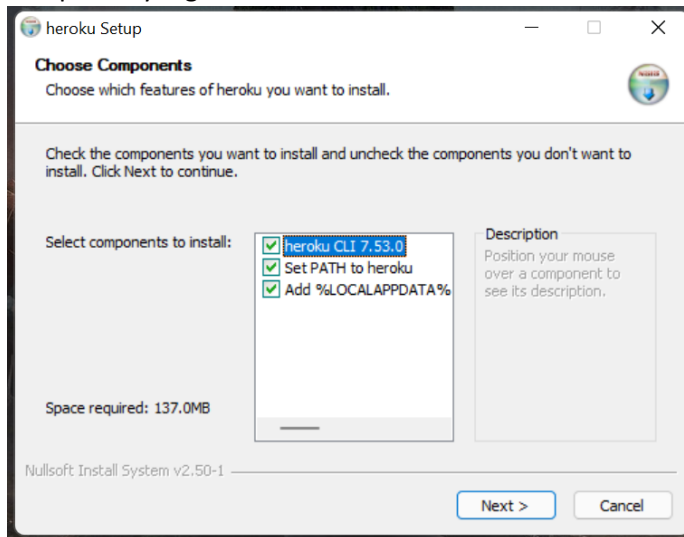


Install heroku :

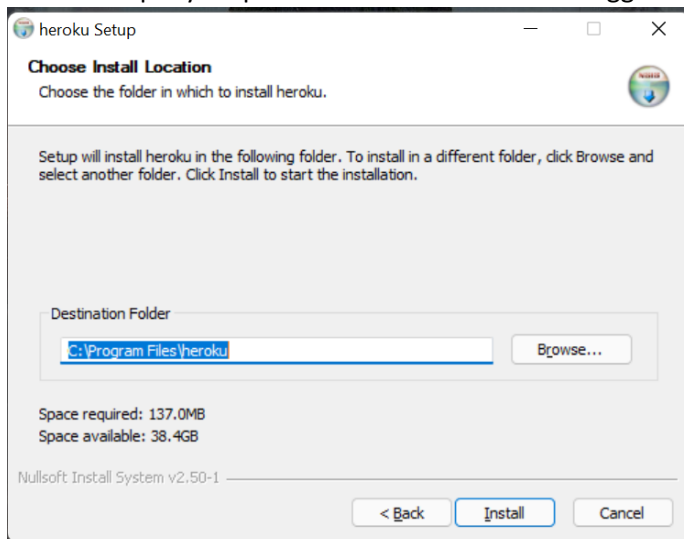
1. Download heroku cli <https://devcenter.heroku.com/articles/heroku-cli#download-and-install> karna saya menggunakan windows 64-bit jadi pilih yang 64-bit.



2. Ketika proses download selesai klik 2x pada file yang kita download tadi lalu ceklist semua komponen yang akan di install -> next.



3. Pilih lokasi penyimpanan file heroku -> install tunggu hingga proses selesai.



4. Mengecek apakah heroku sudah berhasil terinstall

```
Command Prompt
Microsoft Windows [Version 10.0.22000.556]
(c) Microsoft Corporation. All rights reserved.

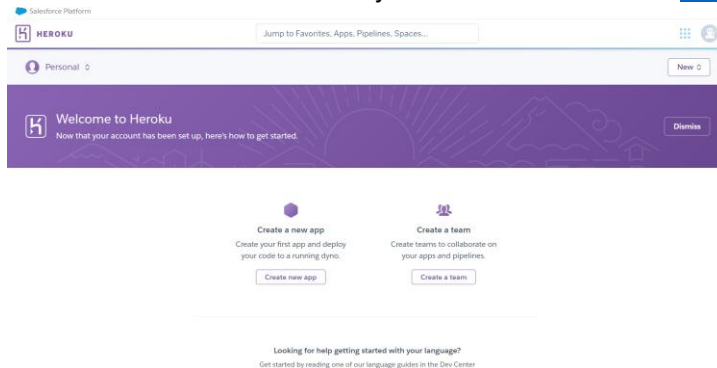
C:\Users\ferna>heroku -h
Warning: Our terms of service have changed: https://dashboard.heroku.com/terms-of-service
CLI to interact with Heroku

VERSION
heroku/7.53.0 win32-x64 node-v12.21.0

USAGE
$ heroku [COMMAND]

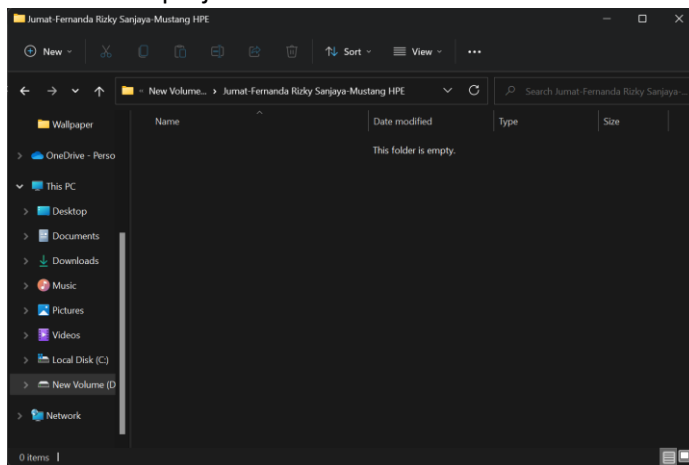
COMMANDS
access      manage user access to apps
addons      tools and services for developing, extending, and operating your app
apps        manage apps on Heroku
auth        check 2fa status
authorizations OAuth authorizations
autocomplete display autocomplete installation instructions
buildpacks  scripts used to compile apps
certs       a topic for the ssl plugin
ci          run an application test suite on Heroku
clients     OAuth clients on the platform
config      environment variables of apps
container   Use containers to build and deploy Heroku apps
domains     custom domains for apps
drains      forward logs to syslog or HTTPS
features    add/remove app features
git         manage local git repository for app
```


5. Setelah itu daftar akun heroku jika belum memiliki akun <https://id.heroku.com/>

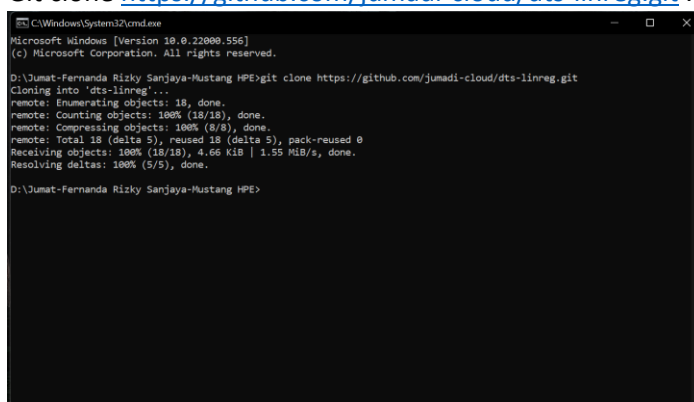


Deployment project using heroku :

1. Buata folder project



2. Pada address bar folder kita ketik cmd maka secara otomatis kita akan masuk ke cmd lalu ketik Git clone <https://github.com/jumadi-cloud/dts-linreg.git> .



3. Masuk ke folder dts-linreg yang berada di dalam folder yang kita buat tadi sebelumnya masuk ke cmd ketik `conda create --name latihanjumat python=3.10.0`.

```
C:\Windows\System32\cmd.exe - conda create --name LatihanJumat python=3.10.0
Microsoft Windows [Version 10.0.22000.556]
(c) Microsoft Corporation. All rights reserved.

D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>conda create --name LatihanJumat python=3.10.0
Collecting package metadata (current_repodata.json): done
Solving environment: failed with repodata from current_repodata.json, will retry with next repodata source.
Collecting package metadata (repodata.json): |
```

4. Aktifkan virtual environment tersebut dengan command `conda activate latihanjumat`.

```
D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>conda activate LatihanJumat
(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>_
```

5. Install library/framework requirements dengan code perintah `pip install -r requirements.txt`.

```
(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>pip install -r requirements.txt
Collecting flask
  Downloading Flask-2.1.1-py3-none-any.whl (95 kB)
    |#####| 95 kB 367 kB/s
Collecting gunicorn
  Downloading gunicorn-20.1.0-py3-none-any.whl (79 kB)
    |#####| 79 kB 632 kB/s
Collecting scikit-learn
  Downloading scikit_learn-1.0.2-cp310-cp310-win_amd64.whl (7.2 MB)
    |#####| 2.1 MB 88 kB/s eta 0:00:58
```

6. Untuk mengecek aplikasi berjalan atau tidak masuk ke cmd ketik code perintah `python app.py`

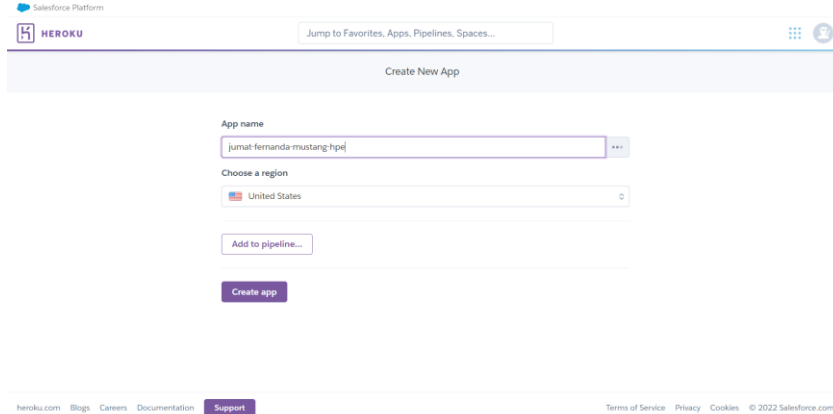
```
(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>python app.py
C:\Users\ferna\anaconda3\envs\LatihanJumat\lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimato
r LinearRegression from version 0.24.2 when using version 1.0.2. This might lead to breaking code or invalid results.
Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/modules/model_persistence.html#security-maintainability-limitations
  warnings.warn(
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Running on http://127.0.0.1:5000 (Press CTRL+C to quit)
* Restarting with stat
C:\Users\ferna\anaconda3\envs\LatihanJumat\lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimato
r LinearRegression from version 0.24.2 when using version 1.0.2. This might lead to breaking code or invalid results.
Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/modules/model_persistence.html#security-maintainability-limitations
  warnings.warn(
* Debugger is active!
* Debugger PIN: 576-483-944
```

7. Login heroku menggunakan cmd dengan code perintah `heroku login`.

```
(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>heroku login
heroku: Press any key to open the browser to login or q to exit:
Opening browser to https://cli-auth.heroku.com/auth/cli/browser/bd970618-2515-4d84-a297-ddfc88c87093?requestor=SFMyNTY.g
2gDbQAAABxNDAUMjEzLjIzMS4xNDVubGBlwHpfwFIAAFRgA.UiIGTWBqRvu5m6JKtXJWBiukff6SIizdxP6si3ncmc
Logging in... done
Logged in as lukxxky@gmail.com

(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>_
```

8. Setelah login, buat nama aplikais yang ingin di publis di heroku <https://dashboard.heroku.com/new-app>.



9. Jalankan code perintah `git:remote -a jumat-fernanda-mustang-hpe`, “jumat-fernanda-mustang-hpe” bisa di ubah sesuai nama aplikasi yang anda buat sebelumnya di web site heroku.

```
(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>heroku git::remote -a jumat-fernanda-mustang-hpe
» Warning: git::remote is not a heroku command.
Did you mean git:remote? [y/n]: y
set git remote heroku to https://git.heroku.com/jumat-fernanda-mustang-hpe.git

(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>
```

10. Jalankan git add .

```
(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>git add .

(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>
```

11. Masukkan code perintah `git commit -m “fernanda app”` jika muncul kendala seperti di bawah ini jalankan code perintah `git config --global user.email “lukxxky@gmail.com”` sesuaikan dengan email yang di gunakan untuk membuat akun heroku, lalu coba kembali jalankan code perintah `git commit -m “fernanda app”`.

```
(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>git commit -m "fernanda app"
Author identity unknown

*** Please tell me who you are.

Run

  git config --global user.email "you@example.com"
  git config --global user.name "Your Name"

to set your account's default identity.
Omit --global to set the identity only in this repository.

fatal: unable to auto-detect email address (got 'ferna@LUKX.(none)')

(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>git config --global user.email "lukxxky@gmail.com"

(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>git commit -m "fernanda app"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>
```

12. Langkah terakhir jalankan code perintah git push heroku main, “main” sesuaikan dengan brach yang muncul saat menjalankan code perintah sebelumnya, karna “on brach main” maka saya menggunakan main tunggu hingga proses selesai.

```
(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>git push heroku main
Enumerating objects: 18, done.
Counting objects: 100% (18/18), done.
Delta compression using up to 4 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (18/18), 4.66 KiB | 4.66 MiB/s, done.
Total 18 (delta 5), reused 18 (delta 5), pack-reused 0
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Building on the Heroku-20 stack
remote: -----> Determining which buildpack to use for this app
remote: -----> Python app detected
remote: -----> No Python version was specified. Using the buildpack default: python-3.10.4
remote: -----> To use a different version, see: https://devcenter.heroku.com/articles/python-runtimes
remote: -----> Installing python-3.10.4
remote: -----> Installing pip 21.3.1, setuptools 57.5.0 and wheel 0.37.0
remote: -----> Installing SQLite3
remote: -----> Installing requirements with pip
remote: Collecting flask
remote:   Downloading Flask-2.1.1-py3-none-any.whl (95 kB)
remote: Collecting gunicorn
remote:   Downloading gunicorn-20.1.0-py3-none-any.whl (79 kB)
remote: Collecting scikit-learn
remote:   Downloading scikit_learn-1.0.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (26.5 MB)
remote: Collecting Jinja2>=3.0
remote:   Downloading Jinja2-3.1.1-py3-none-any.whl (132 kB)
remote: Collecting click>=8.0
remote:   Downloading click-8.1.2-py3-none-any.whl (96 kB)
```

Jika muncul hasil seperti ini maka tandanya sudah berhasil.

```
remote:   Downloading itsdangerous-2.1.2-py3-none-any.whl (15 kB)
remote: Collecting joblib>=0.11
remote:   Downloading joblib-1.1.0-py2.py3-none-any.whl (306 kB)
remote: Collecting numpy>=1.14.6
remote:   Downloading numpy-1.22.3-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (16.8 MB)
remote: Collecting threadpoolctl>=2.0.0
remote:   Downloading threadpoolctl-3.1.0-py3-none-any.whl (14 kB)
remote: Collecting scipy>=1.1.0
remote:   Downloading scipy-1.8.0-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (42.3 MB)
remote: Collecting MarkupSafe>=2.0
remote:   Downloading MarkupSafe-2.1.1-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (25 kB)
remote: Installing collected packages: numpy, MarkupSafe, Werkzeug, threadpoolctl, scipy, joblib, Jinja2, itsdangerous, click, scikit-learn, gunicorn, flask
remote: Successfully installed Jinja2-3.1.1 MarkupSafe-2.1.1 Werkzeug-2.1.1 click-8.1.2 flask-2.1.1 gunicorn-20.1.0 itsdangerous-2.1.2 joblib-1.1.0 numpy-1.22.3 scikit-learn-1.0.2 scipy-1.8.0 threadpoolctl-3.1.0
remote: -----> Discovering process types
remote: Procfile declares types -> web
remote:
remote: -----> Compressing...
remote: Done: 150.7M
remote: -----> Launching...
remote: Released v3
remote: https://jumat-fernanda-mustang-hpe.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/jumat-fernanda-mustang-hpe.git
 * [new branch]    main -> main

(LatihanJumat) D:\Jumat-Fernanda Rizky Sanjaya-Mustang HPE\dts-linreg>
```

Ini adalah tampilan website yang kita buat

Prediksi Biaya Asuransi Anda:

Usia
Usia

Jenis Kelamin:
Laki-laki

Perokok:
Ya

PREDIKSI SEKARANG →

Estimasi biaya asuransi Anda adalah
USD 3696.65

Usia: 22 tahun
Jenis kelamin: Laki-laki
Status perokok: Tidak