# Exercise 3: Freestyle Job - Flask Application Deployment

1. Objective: Automate the deployment of a Flask application.

2. Steps:

o Create a Freestyle Job.

o Configure the job to:

▪ Pull the Flask application repository from GitHub.

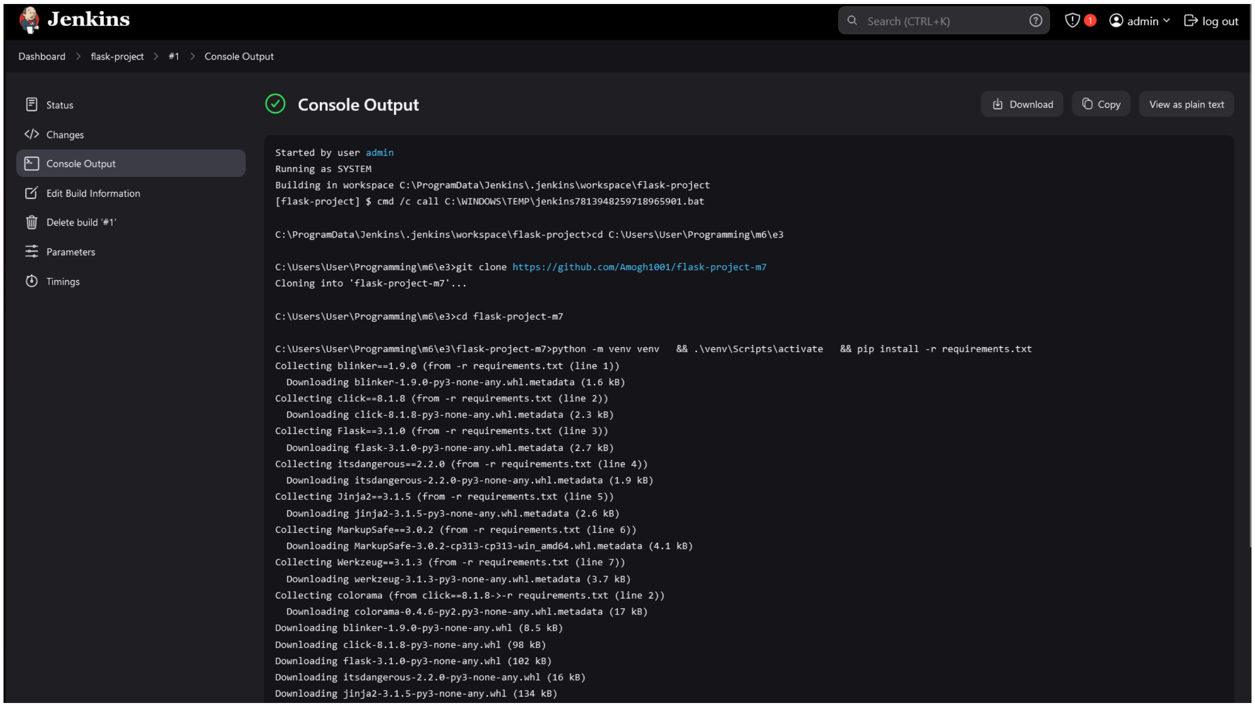
▪ Set up a virtual environment using Python:

```
python -m venv venv
.\venv\Scripts\activate
pip install -r requirements.txt
```

▪ Start the Flask development server.

o Add a post-build action to verify the server is running (e.g., using curl or a similar tool to hit a test endpoint).

3. Task: Test the application deployment by accessing it via localhost.



Console Output

```
Started by user admin
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\.jenkins\workspace\flask-project
[flask-project] $ cmd /c call C:\WINDOWS\TEMP\jenkins7813948259718965901.bat

C:\ProgramData\Jenkins\.jenkins\workspace\flask-project>cd C:\Users\User\Programming\m6\e3

C:\Users\User\Programming\m6\e3>git clone https://github.com/Amogh1001/flask-project-m7
Cloning into 'flask-project-m7'...

C:\Users\User\Programming\m6\e3>cd flask-project-m7

C:\Users\User\Programming\m6\e3\flask-project-m7>python -m venv venv   && .\venv\Scripts\activate   && pip install -r requirements.txt
Collecting blinker==1.9.0 (from -r requirements.txt (line 1))
  Downloading blinker-1.9.0-py3-none-any.whl.metadata (1.6 kB)
Collecting click==8.1.8 (from -r requirements.txt (line 2))
  Downloading click-8.1.8-py3-none-any.whl.metadata (2.3 kB)
Collecting Flask==3.1.0 (from -r requirements.txt (line 3))
  Downloading flask-3.1.0-py3-none-any.whl.metadata (2.7 kB)
Collecting itsdangerous==2.2.0 (from -r requirements.txt (line 4))
  Downloading itsdangerous-2.2.0-py3-none-any.whl.metadata (1.9 kB)
Collecting Jinja2==3.1.5 (from -r requirements.txt (line 5))
  Downloading jinja2-3.1.5-py3-none-any.whl.metadata (2.6 kB)
Collecting MarkupSafe==3.0.2 (from -r requirements.txt (line 6))
  Downloading MarkupSafe-3.0.2-cp313-cp313-win_amd64.whl.metadata (4.1 kB)
Collecting Werkzeug==3.1.3 (from -r requirements.txt (line 7))
  Downloading werkzeug-3.1.3-py3-none-any.whl.metadata (3.7 kB)
Collecting colorama (from click==8.1.8->-r requirements.txt (line 2))
  Downloading colorama-0.4.6-py2.py3-none-any.whl.metadata (17 kB)
Downloading blinker-1.9.0-py3-none-any.whl (8.5 kB)
Downloading click-8.1.8-py3-none-any.whl (98 kB)
Downloading flask-3.1.0-py3-none-any.whl (102 kB)
Downloading itsdangerous-2.2.0-py3-none-any.whl (16 kB)
Downloading jinja2-3.1.5-py3-none-any.whl (134 kB)
```