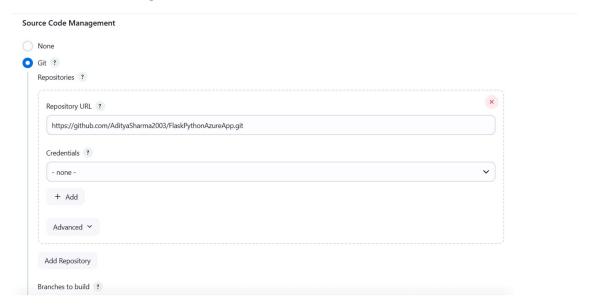
Exercise 3: Freestyle Job - Flask Application Deployment

- 1. Objective: Automate the deployment of a Flask application.
- 2. Steps:
 - a. Create a Freestyle Job.
 - b. 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.
 - c. Add a post-build action to verify the server is running (e.g., using curl or a
- 2. similar tool to hit a test endpoint).
- 3. Task: Test the application deployment by accessing it via localhost

Configurations

Source Code Management:





Windows Batch Command:

Build Steps



Console Ouput:



Dashboard > JE-3 > #3 > Console Output

```
C:\AdityaPersonal\nexTurn\new_jenkins\workspace\JE-3>python -m venv venv
C:\AdityaPersonal\nexTurn\new jenkins\workspace\JE-3>.\venv\Scripts\activate && pip install -r requirements.txt && python app.py && curl
Collecting blinker==1.9.0 (from -r requirements.txt (line 1))
     Obtaining dependency information for blinker==1.9.0 from
https://files.pythonhosted.org/packages/10/cb/f2ad4230dc2eb1a74edf38f1a38b9b52277f75bef262d8908e60d957e13c/blinker-1,9.0-py3-none
    Using cached blinker-1.9.0-py3-none-any.whl.metadata (1.6 kB)
Collecting click==8.1.8 (from -r requirements.txt (line 2))
Obtaining dependency information for click==8.1.8 from
https://files.pythonhosted.org/packages/7e/d4/7ebdb
                                                                                                                                      7812aac39c869717059dbb71a4cfc033ca6e5221787892c/click-8.1.8-py3-none
 any.whl.metadata
Using cached click-8.1.8-py3-none-any.whl.metadata (2.3 kB) Collecting colorama==0.4.6 (from -r requirements.txt (line 3))
    Obtaining dependency information for colorama==0.4.6 from
https://files.pythonhosted.org/packages/d1/d6/396
  anv.whl.metadata
     Using cached colorama-0.4.6-py2.py3-none-any.whl.metadata (17 kB)
Collecting Flask==3.1.0 (from -r requirements.txt (line 4))
     Obtaining dependency information for Flask==3.1.0 from
Using cached flask-3.1.0-py3-none-any.whl.metadata (2.7 kB)
Collecting itsdangerous==2.2.0 (from -r requirements.txt (line 5))
Obtaining dependency information for itsdangerous==2.2.0 from
any.whl.metadata
     Using cached itsdangerous-2.2.0-py3-none-any.whl.metadata (1.9 kB)
Collecting Jinja2==3.1.5 (from -r requirements.txt (line 6))
    Obtaining dependency information for Jinja2==3.1.5 from
https://files.pythonhosted.org/packages/bd/0f/2ba5fbcd631e3e88689309dbe978c5769e883e4b84ebfe7da30b43275c5a/jinja2-3.1.5-py3-none-
any.whl.metadata
     Using cached jinja2-3.1.5-py3-none-any.whl.metadata (2.6 kB)
Collecting MarkupSafe==3.0.2 (from -r requirements.txt (line 7))
Obtaining dependency information for MarkupSafe==3.0.2 from
https://files.pythonhosted.org/packages/da/b8/3a3bd761922d416f3dc5d00bfbed11f66b1ab89a0c2b6e8872d0a30b0f6b/MarkupSafe-3.0.2-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-cp311-
    Using cached MarkupSafe-3.0.2-cp311-cp311-win amd64.whl.metadata (4.1 kB)
Using determine the proposed of the proposed o
any.whl.metadata
     Using cached werkzeug-3.1.3-py3-none-any.whl.metadata (3.7 kB)
Using cached blinker-1.9.0-py3-none-any.whl (8.5 kB)
Using cached click-8.1.8-py3-none-any.whl (98 kB)
Using cached colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Using cached flask-3.1.0-py3-none-any.whl (102 kB)
Using cached itsdangerous-2.2.0-py3-none-any.whl (16 kB)
Using cached jinja2-3.1.5-py3-none-any.whl (134 kB)
Using cached MarkupSafe-3.0.2-cp311-cp311-win_amd64.whl (15 kB)
Using cached werkzeug-3.1.3-py3-none-any.whl (224 kB)
Installing collected packages: MarkupSafe, itsdangerous, colorama, blinker, Werkzeug, Jinja2, click, Flask
Successfully installed Flask-3.1.0 Jinja2-3.1.5 MarkupSafe-3.0.2 Werkzeug-3.1.3 blinker-1.9.0 click-8.1.8 colorama-0.4.6 itsdangerous-2.2.0
[notice] A new release of pip is available: 23.2.1 -> 24.3.1
[notice] To update, run: python.exe -m pip install --upgrade pip
 * Serving Flask app 'app'
  * Debug mode: off
 WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
   * Running on all addresses (0.0.0.0)
  * Running on http://127.0.0.1:5000
   * Running on http://192.168.0.104:5000
Press CTRL+C to quit
```