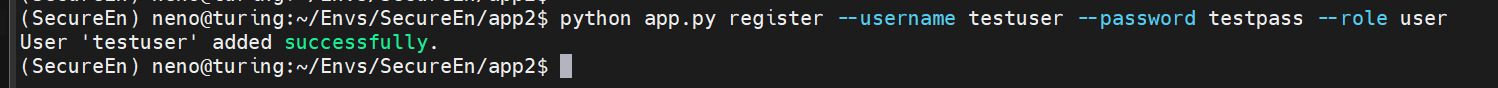
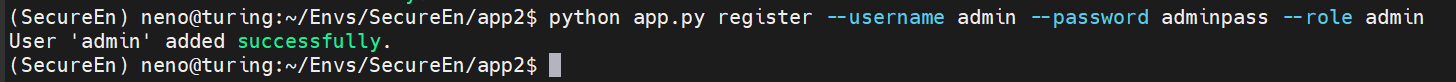
Pre-requisites:  
  
pip install cryptography bcrypt

**Running the Application**

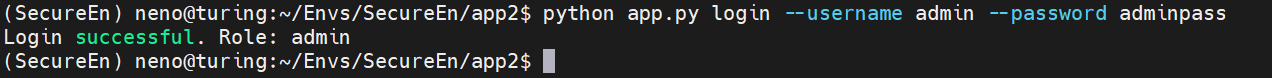
Use the following commands for different operations:

* **Register a User:**

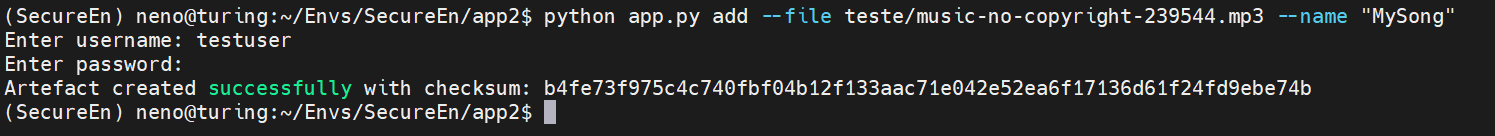
python app.py register --username testuser --password testpass --role user

  
  
python app.py register --username admin --password adminpass --role admin  
  
  
**Login:**

python app.py login --username admin --password adminpass



* **Add an Artefact:**

python app.py add --file /path/to/file --name "MySong"  
  


* **View, Update, Delete, and List Artefacts:**  
  Refer to the command documentation below.

**5. Command Documentation**

**register**

* **Purpose:** Register a new user with a specified role (admin or user) using bcrypt for password hashing.
* **Usage:**

python app.py register --username <username> --password <password> --role <admin|user>

* **Example:**

python app.py register --username testuser --password testpass --role user

**login**

* **Purpose:** Authenticate an existing user.
* **Usage:**

python app.py login --username <username> --password <password>

* **Example:**

python app.py login --username admin --password adminpass

**add**

* **Purpose:** Add a new artefact by encrypting the file, computing its SHA‑256 checksum, and storing metadata.
* **Usage:**

python app.py add --file <path\_to\_file> --name <artefact\_name>

* **Example:**

python app.py add --file /home/user/music/song.mp3 --name "MySong"

**view**

* **Purpose:** View artefact details and preview the decrypted file content.
* **Usage:**

python app.py view --id <artefact\_id>

* **Example:**

python app.py view --id 1  
A black screen with white text

AI-generated content may be incorrect.

**update**

* **Purpose:** Update an existing artefact with a new encrypted file.
* **Usage:**

python app.py update --id <artefact\_id> --file <path\_to\_new\_file>

* **Example:**

python app.py update --id 1 --file /home/user/music/new\_song.mp3  
  
A computer screen with white text

AI-generated content may be incorrect.

**delete**

* **Purpose:** Delete an artefact and remove its encrypted file.
* **Usage:**

python app.py delete --id <artefact\_id>

* **Example:**

python app.py delete --id 1  
A black screen with white text

AI-generated content may be incorrect.

**list**

* **Purpose:** List all artefacts accessible to the authenticated user.
* **Usage:**

python app.py list

* **Example:**

A computer screen shot of a computer

AI-generated content may be incorrect.