## **Building an App for the Retail Customer Pipeline**

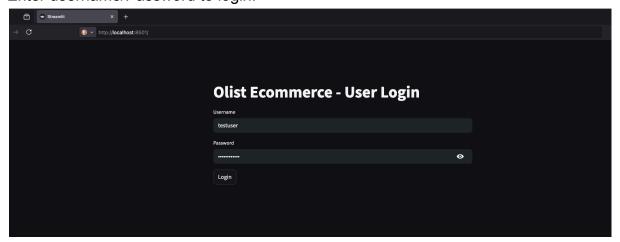
Next we will build a simple app for our retail e-commerce dataset.

- To build our app we will Streamlit.
  - Streamlit is an open-source Python framework for data scientists and Al/ML engineers to deliver interactive data apps - in only a few lines of code.

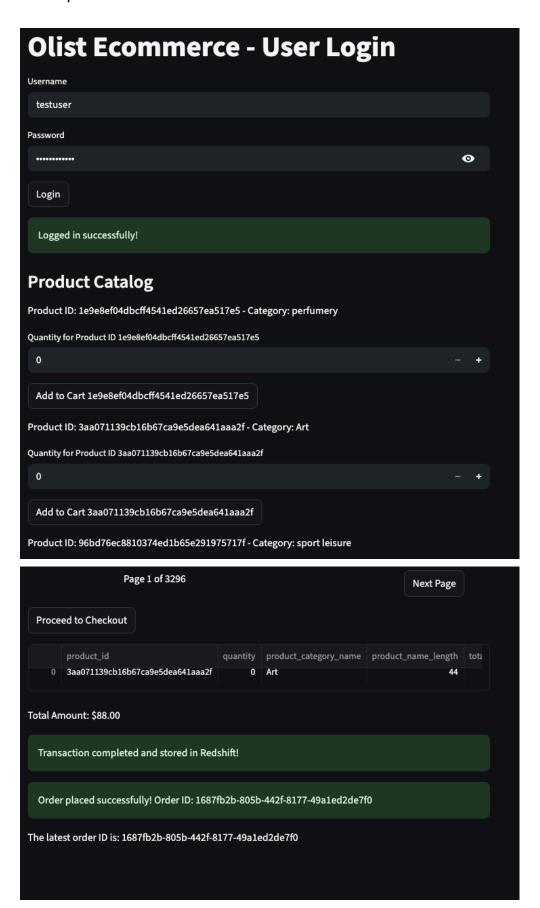
Using our App, Users can login and add products to the cart and checkout. Once the product is checked out an order is created in the database.

## Install these packages into your machine.

- 1. Install these packages onto your machine.
  - a. pip install psycopg2-binary pandas sqlalchemy streamlit
- 2. Use the <u>ecommerceApp.py</u> to create a stream lit app front end that will connect to the Redshift database and pull the products from the database.
- streamlit run ecommerceApp.py
- 4. Stream lit will open in your browser
  - a. <a href="http://localhost:8501/">http://localhost:8501/</a>
- 5. Enter username/Password to login.

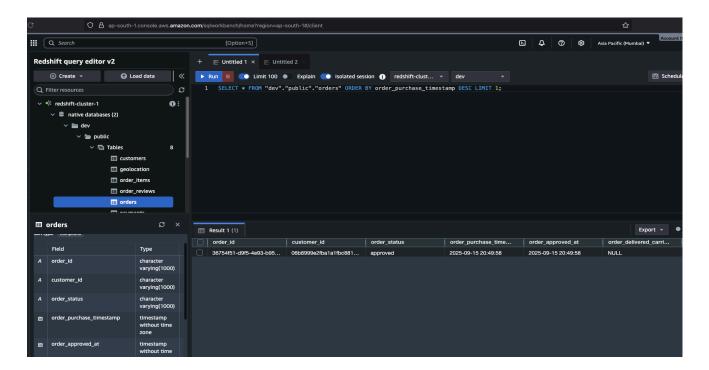


Add a product to cart and then checkout.



We can also check in the Redshift database that our order is successfully created.

**Order\_Purchase\_timestamp:** '2025-09-15 20:49:58'



See the Streamlit App video in code repo.