

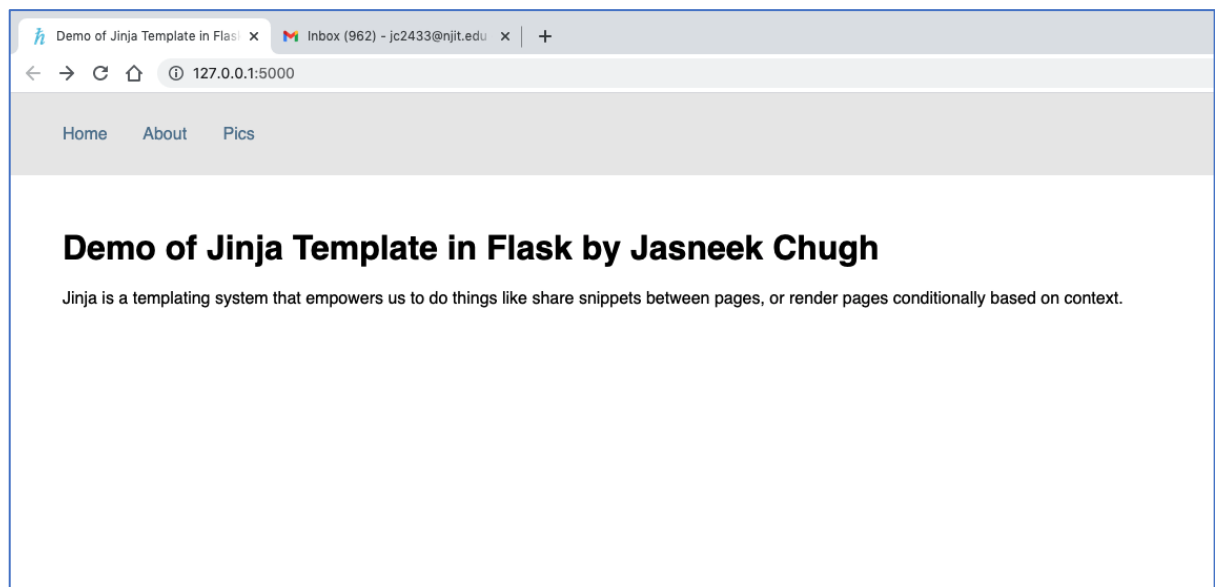
IS 601- Final Project

-Jasneek Singh Chugh (jc2433)

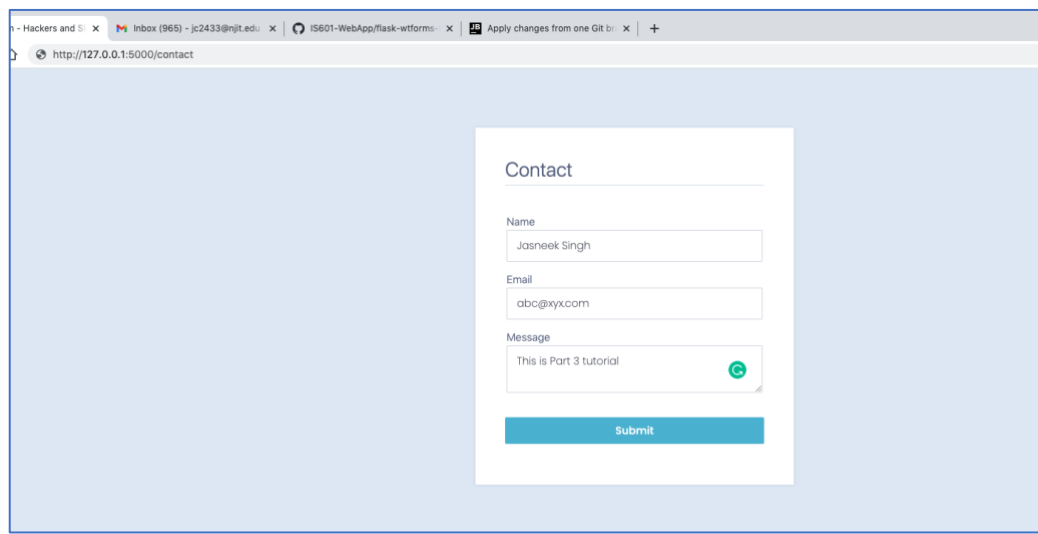
1. First flask application



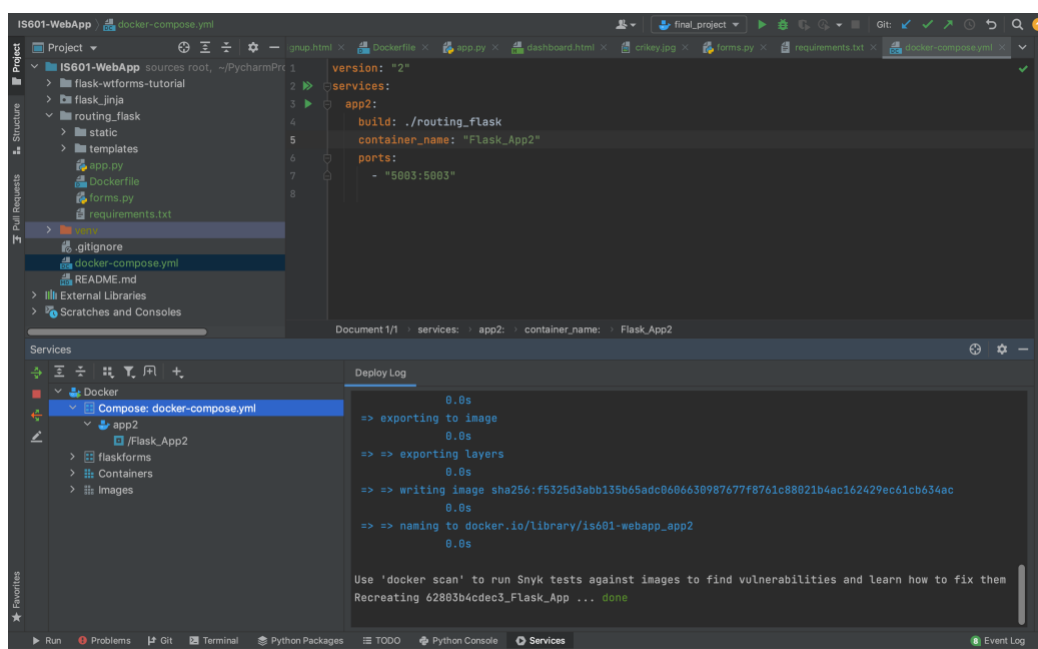
2. Rendering pages in Flask



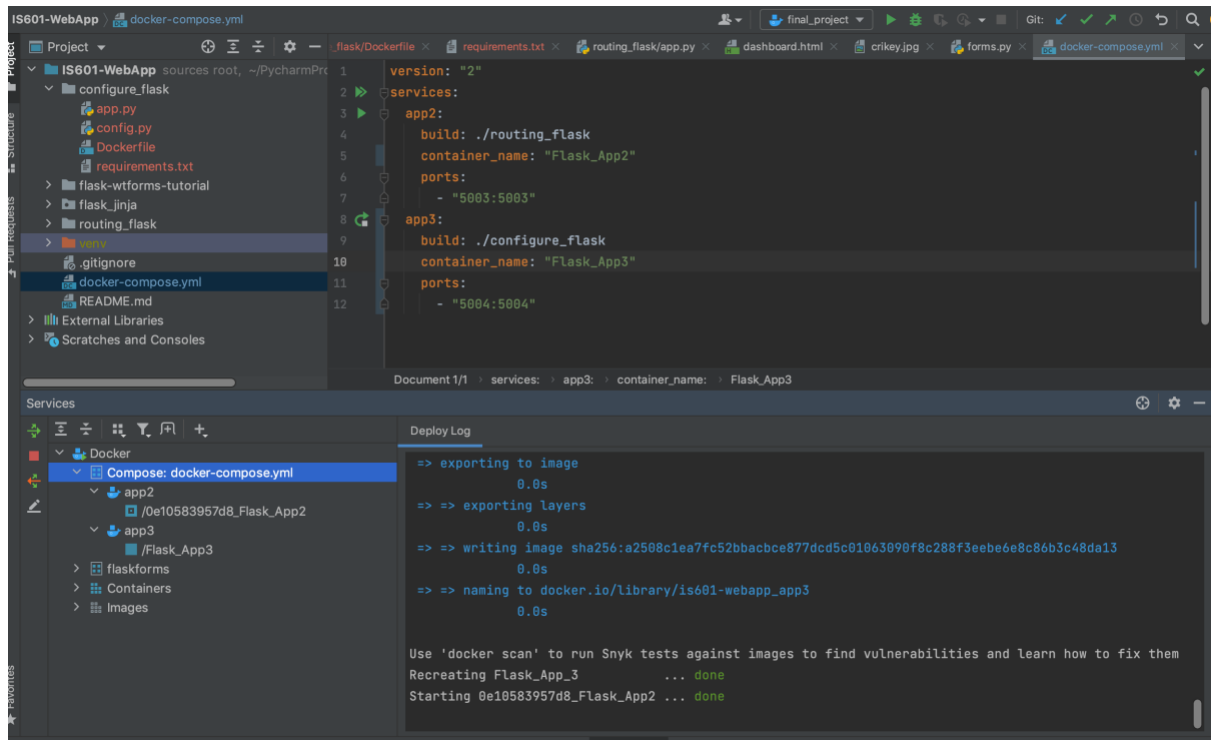
3. Handling forms in Flask with Flask-WTF



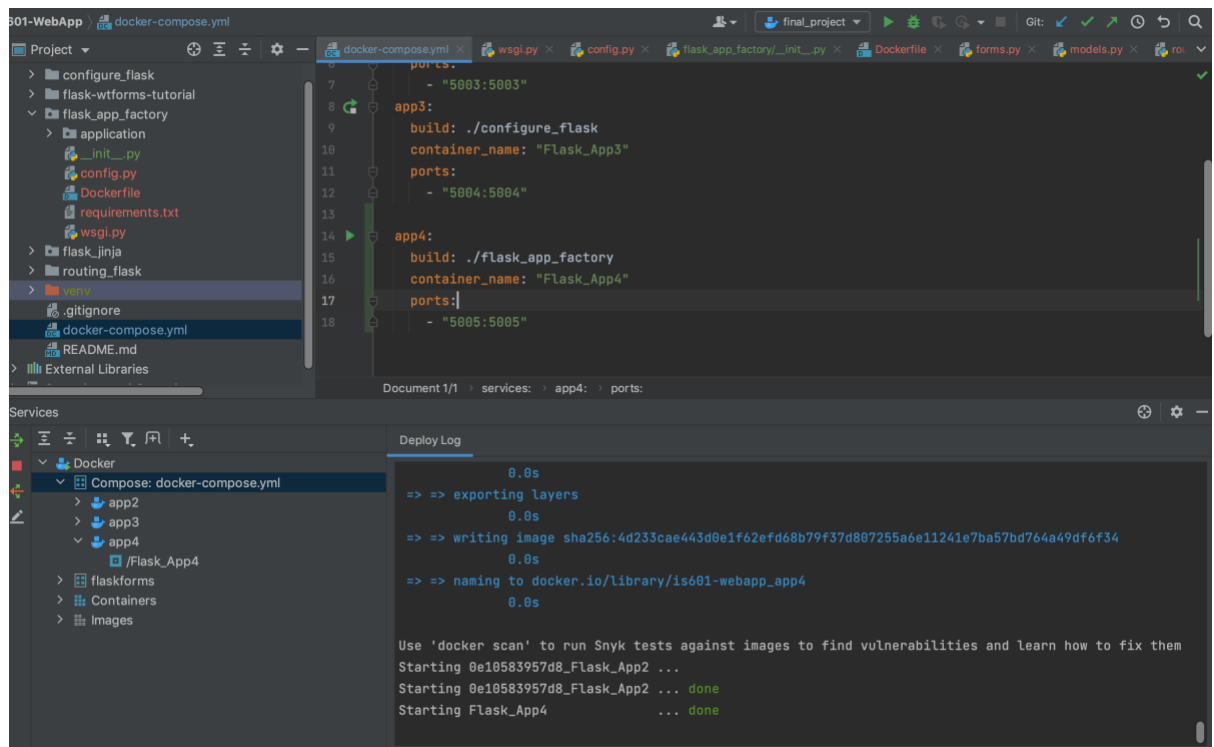
4. Configuring flask app



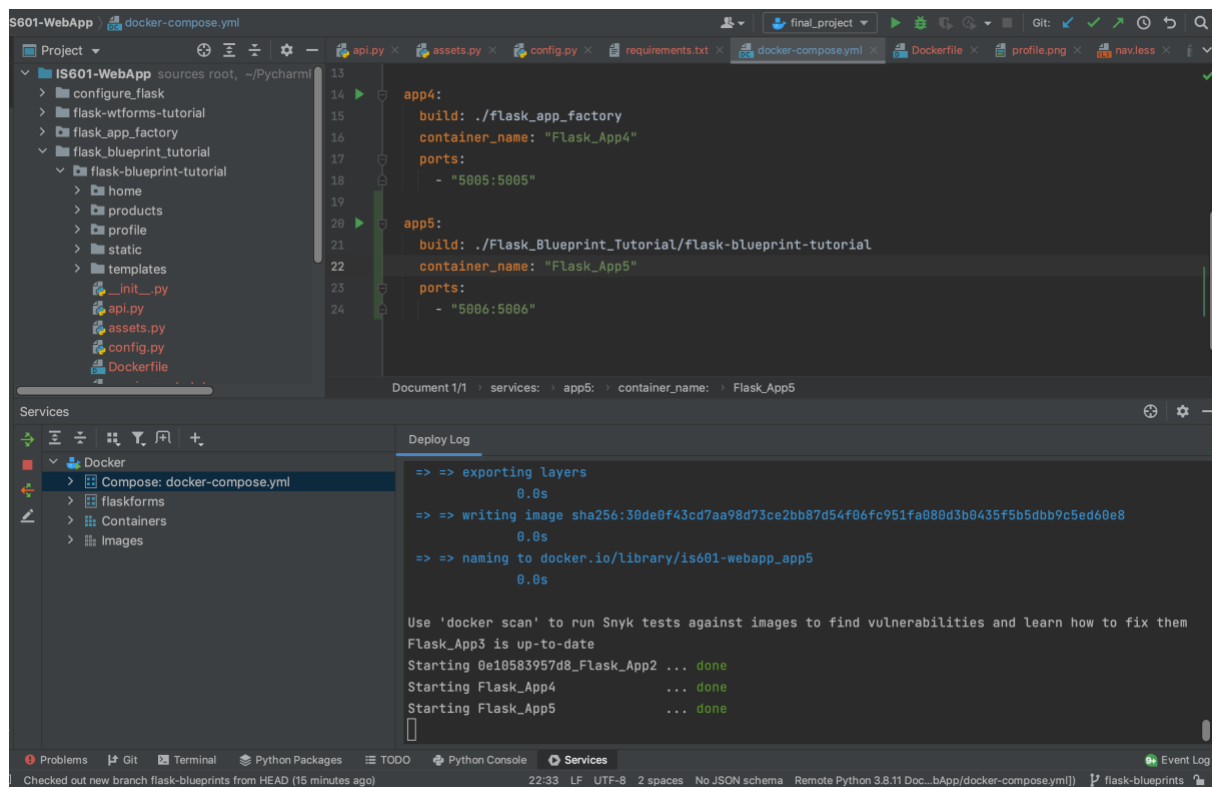
5. Configuring Flask

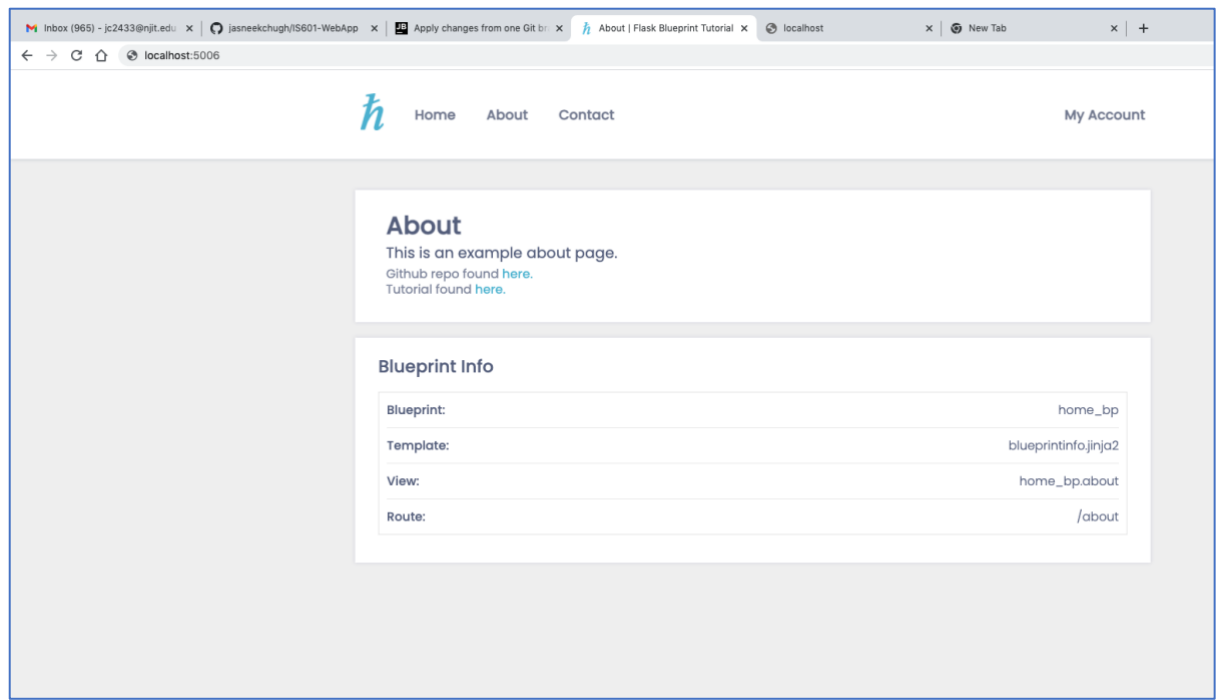


6. Demystifying Flask App Factory

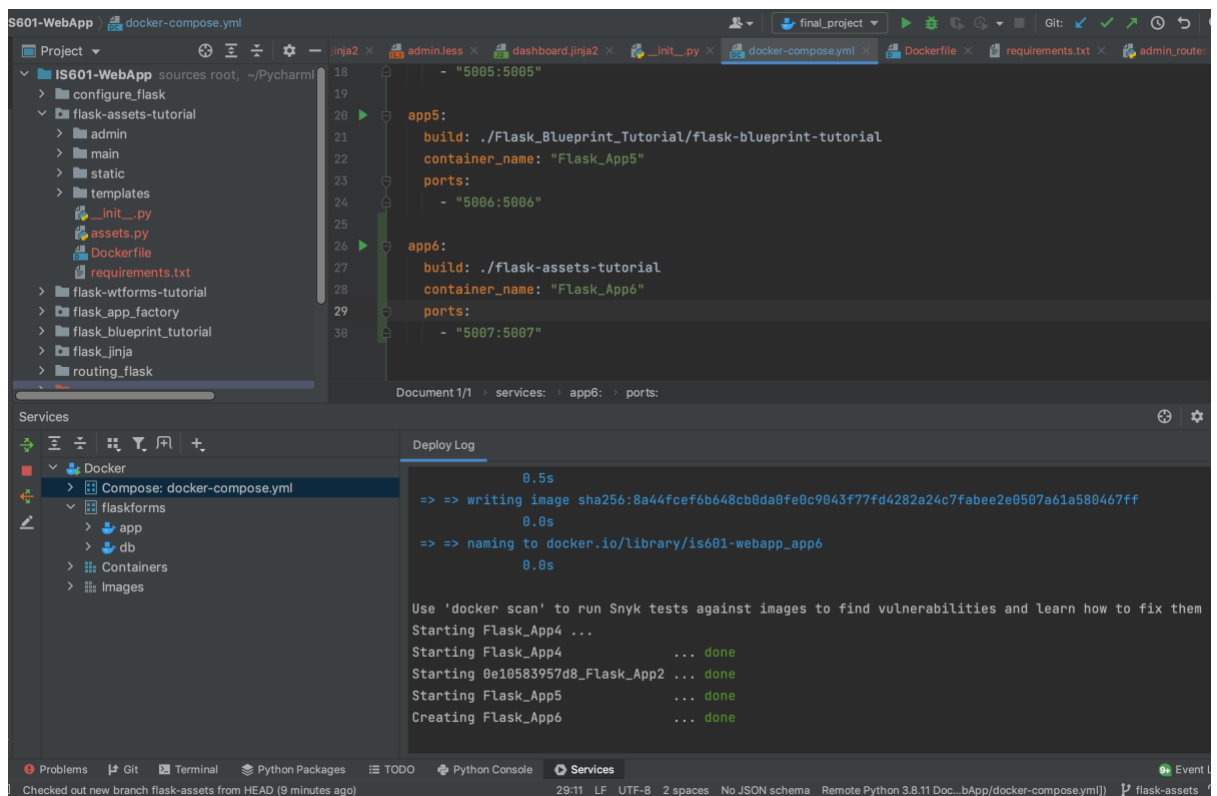


7. Flask Blueprint





8. Flask Assets



9. Flask SQLAlchemy

The screenshot shows the VS Code editor with the `docker-compose.yml` file open. The file defines three services: `app6`, `app7`, and `app8`. The `app6` service is built from the `./flask-assets-tutorial` directory and runs on port 5006. The `app7` service is built from the `./flask-sqlalchemy-tutorial/flask-sqlalchemy-tutorial` directory and runs on port 5007. The `app8` service is built from the `./flask-sqlalchemy-tutorial/flask-sqlalchemy-tutorial` directory and runs on port 5008.

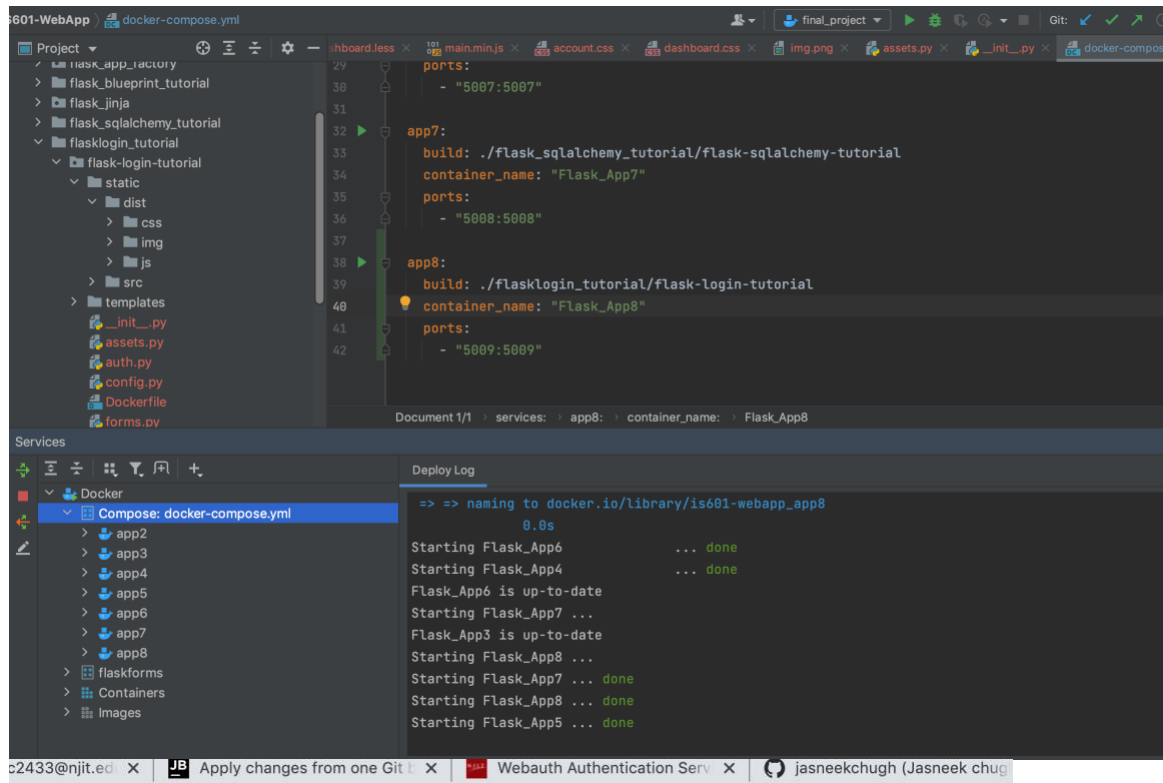
```
services:
  app6:
    build: ./flask-assets-tutorial
    container_name: "Flask_App6"
    ports:
      - "5006:5006"
  app7:
    build: ./flask-sqlalchemy-tutorial/flask-sqlalchemy-tutorial
    container_name: "Flask_App7"
    ports:
      - "5007:5007"
  app8:
    build: ./flask-sqlalchemy-tutorial/flask-sqlalchemy-tutorial
    container_name: "Flask_App8"
    ports:
      - "5008:5008"
```

The Services panel shows the Docker Compose configuration. The Deploy Log shows the deployment process, including the creation of the `Flask_App6` container and the starting of the `Flask_App6` service.

The screenshot shows the Flask-SQLAlchemy Tutorial web application running on `localhost:5008`. The application displays a list of users, each with a unique ID and a bio. The users are:

- User: todd
Email: todd@example.com
Created: 2020-04-17 21:53:22
Bio: In West Philadelphia born and raised, on the playground is where I spent most of my days
Admin: False
- User: bob
Email: bob@example.com
Created: 2020-04-17 22:09:40
Bio: In West Philadelphia born and raised, on the playground is where I spent most of my days
Admin: False
- User: scott
Email: scott@example.com
Created: 2020-04-17 22:13:21
Bio: In West Philadelphia born and raised, on the playground is where I spent most of my days

10. Flask Authentication and User Login



localhost:5009

The screenshot shows a web application with a 'Sign Up' form. The form has a blue header with a stylized 'h' logo. The form fields are: Name (John Smith), Email (youremail@example.com), Password, Confirm Your Password, and Website (http://example.com). A blue 'Submit' button is at the bottom. Below the button, there is a link: 'Already have an account? Log in.'

11. Flask Session and Redis

The screenshot displays the Visual Studio Code interface with a project named '501-WebApp'. The left sidebar shows the project structure, including folders like 'flask_jinja', 'flask_session_tutorial', and 'flask_sqlalchemy_tutorial'. The main editor shows the 'docker-compose.yml' file with the following configuration:

```
app8:
  build: ../flasklogin_tutorial/flask-login-tutorial
  container_name: "Flask_App8"
  ports:
    - "5009:5009"

app9:
  build: ../flask_session_tutorial/flask-session-tutorial
  container_name: "Flask_App9"
  ports:
    - "5010:5010"
```

The bottom panel shows the 'Services' view with a list of services under 'Compose: docker-compose.yml'. The 'Deploy Log' tab is active, showing the deployment progress:

```
0.0s
Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn
Flask_App3 is up-to-date
Starting Flask_App5 ... done
Starting 0e10583957d8_Flask_App2 ... done
Starting Flask_App4 ... done
Starting Flask_App7 ... done
Starting Flask_App8 ... done
Starting Flask_App6 ... done
Creating Flask_App9 ... done
```