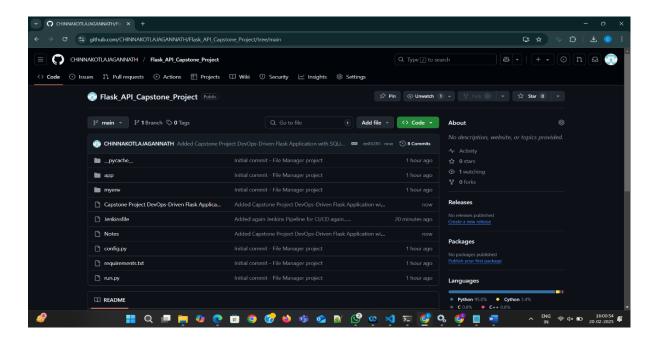
Name: Chinnakotla Jagannath

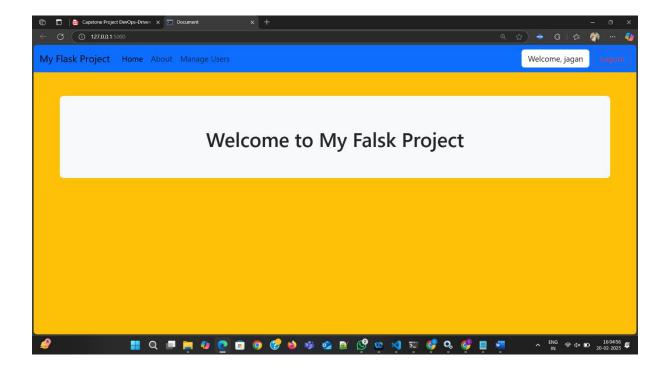
Capstone Project: *DevOps-Driven Flask Application with SQLite and Azure Deployment*

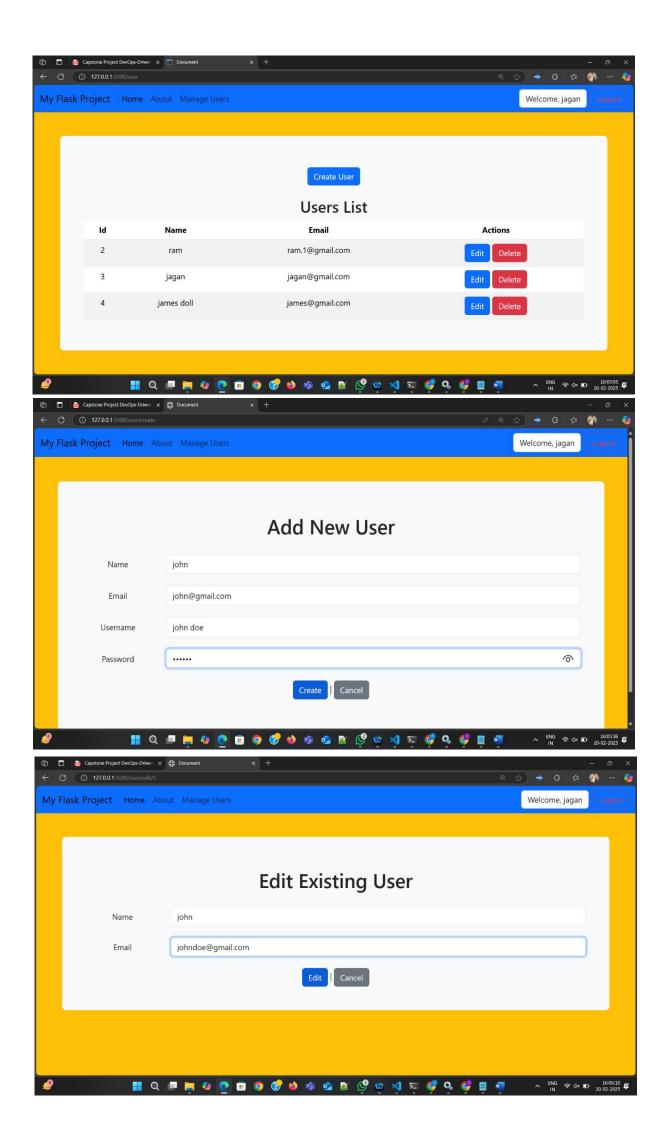
Objectives

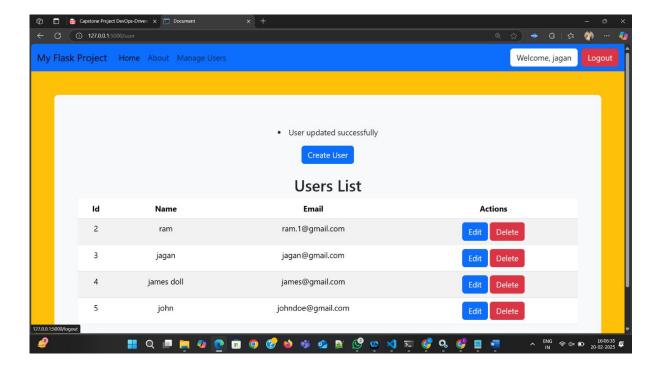
1. Develop a Flask API

- a. Design a RESTful API that allows users to perform CRUD operations.
- b. Implement authentication and error handling mechanisms.









2. Integrate an SQLite Database

- a. Create and manage a database using SQLite.
- b. Store and retrieve structured data efficiently.

```
C:\Users\JAGANNATH\db>sqlite3 mydb.db
SQLite version 3.46.1 2024-08-13 09:16:08 (UTF-16 console I/O)
Enter ".help" for usage hints.
sqlite> sqlite> stables
STUDENT TEACHER UserDetails category product user
sqlite> sqlite> select * from user;
2[ram|ram.1@gmail.com|jagan|123456
3]jagan|jagan@gmail.com|jagan|23456
3]jagan|jagan@gmail.com|james|123456
sqlite> sqlite> sqlite> sqlite>
```

3. Automate DevOps Pipeline Using Jenkins

- a. Set up continuous integration and deployment (CI/CD) pipelines.
- b. Automate building, testing, and deploying the Flask application.

