Course No.: CS/SS G527
Course Title: Cloud Computing
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We have implemented the university student information system for a student to access details of one or all enrolled courses of the semester and to add or substitute courses through Flask, which is a microframework for Python based on Werkzeug WSGI toolkit and Jinja 2 template engine.
We have assumed that the database containing details of students, courses and registrations exists prior to current task in MySQL database.

The RESTful web-services we offer are:

- View all courses for a student:
  - GET Method
  - <baseurl>/studentid/
- Add a course:
  - POST/PUT Method
  - <baseurl>/studentid/courseid
- Substitute a course:
  - POST/PUT Method
  - <baseurl>/studentid/courseid1/courseid2
- View all available courses:
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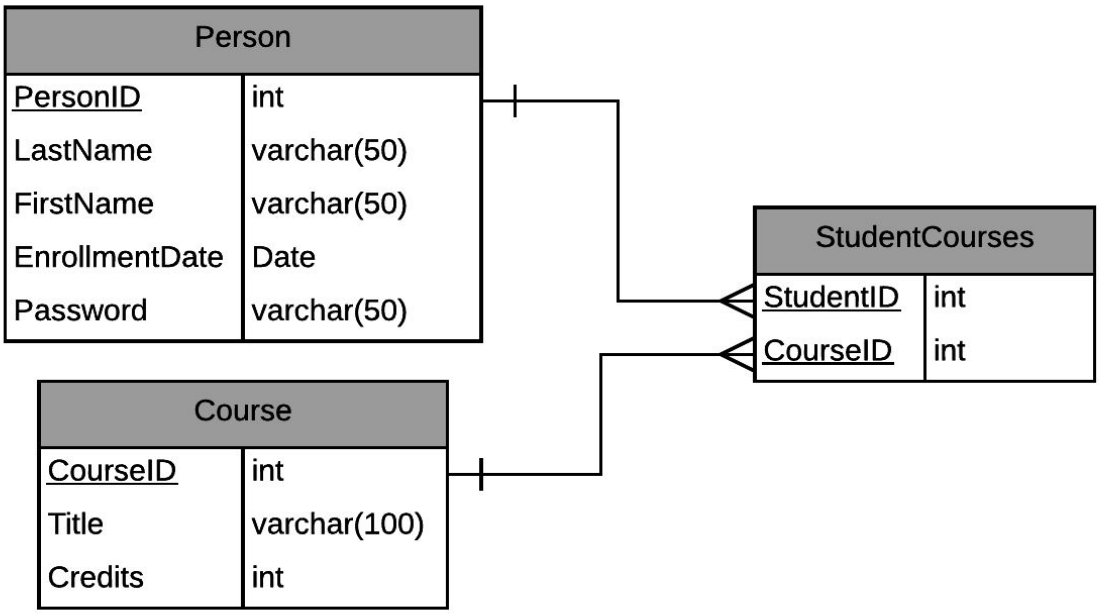
MySQL database must be setup as follows:

- Start MySQL server
  - sudo service mysql start
- Log in the mysql server using root
- Create a testuser with password 'password'
  - CREATE USER 'testuser'@'localhost' IDENTIFIED BY 'password';
  - GRANT ALL ON testdb.* TO 'testuser'@'localhost';
- Run the scripts/dump.sql
  - mysql -u testuser -p < dump.sql (Enter password)

The schema for MySQL database is as follows:



To run the service:

- Clone or download the project and navigate to the project directory
- Enable virtual environment
    - source bin/activate
- Install requirements
    - pip install -r requirements.txt
- Run the server
    - python app.py
- Go to browser or Postman extension to test
    - http://127.0.0.1:5000/app/home.html