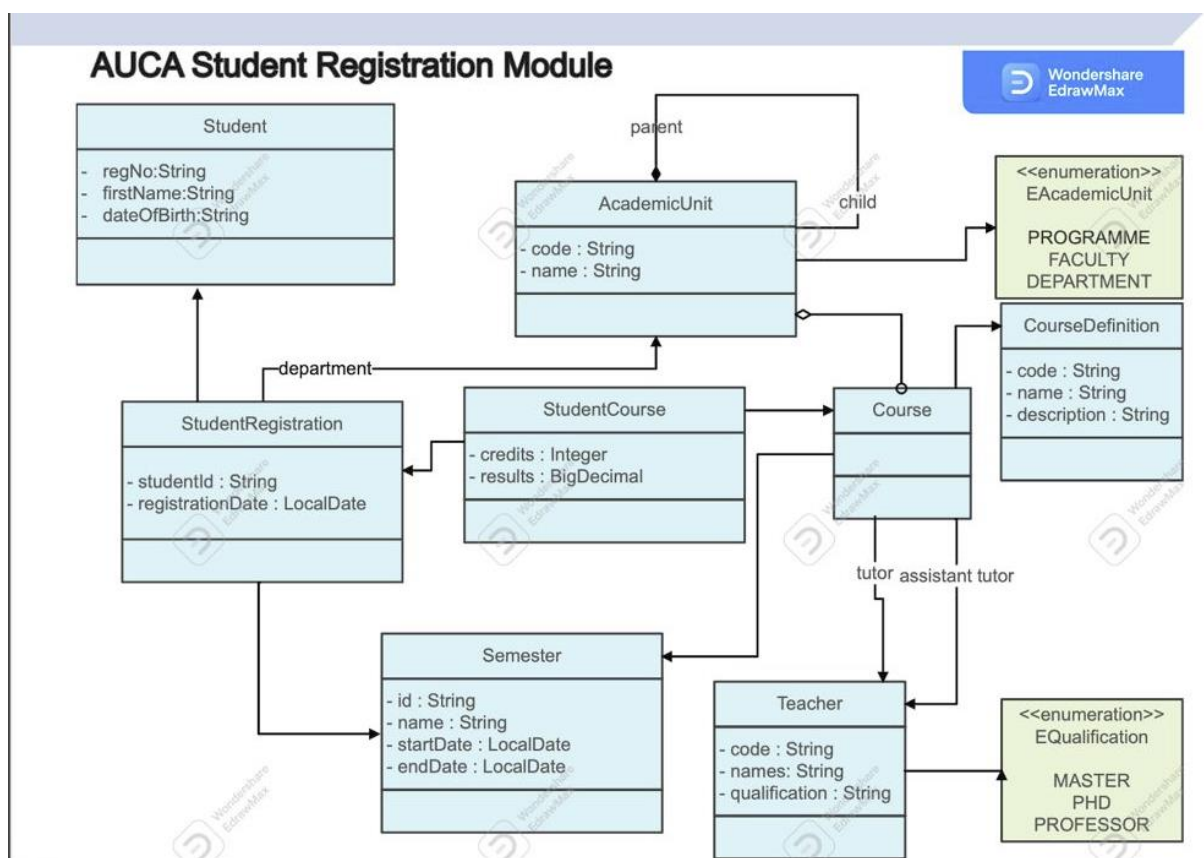MID TERM PROJECT

COURSE: WEB TECHNOLOGY AND INTERNET

COURSE CODE: INSY 418

GROUP: Sunday, Monday, and Thursday

ACADEMIC YEAR: 2023/2024

SEMESTER: II

The picture below shows the ERD (Entity relationship Diagram) of AUCA STUDENT MANAGEMENT MODULE.

Project requirements: JDK 1.8 or above

          IDE: Any but preferred Eclipse

          Database: PostgreSQL.

          Browser: Any.

          Languages: Java (Servlet), HTML, CSS, and Javascript in case you need it

Parts to be cover:

1. Implement CRUD using doGet, doPost, doDelete, and doPut.

2. Add another table of users which has three columns (id as primary key, email, password, and role). This is where the users will save his/her information when he is creating an account.
3. Refer to AUCA website and implement the same design with all pages as specified on its navigation bar. Link: https://auca.ac.rw/
4. Functional requirements:

The user should be able to create an account with email, password, and admin as role.

The user should be able to create an account with email, password, and student as role.

The user should be able to create an account with email, password, and teacher as role.

The user should be redirected to home at first login.

The system should implement authentication and authorization based his role:

If the user has the role of admin, he should be able to visit all pages of the application.

If the user has the role of student, he should be able to visit all sub menus under academic.

If the user has the role of student, he should be able to visit the application page.

If the user has the role of teacher, he should be able to visit the research and media center sub menus.

When the user logs out, he should be authenticated if he tries to bypass the login page.

User cookie or session to hold information in user's credentials in browser.

Implement Exception handling page for 404.

Implement exception handling page for 500.

When the user last 1 minutes without interacting with the system. The system should redirect him/her to login page. Here, you will use session.