Assignment 3 Report – CSCB20 Course Website

1. Features Implemented Successfully

- **Authentication System:**

  - Developed a registration page to allow new users (both students and instructors) to create accounts.

  - Implemented a secure login system with hashed passwords using Flask-Bcrypt.

  - Ensured proper session handling so that only authenticated users can access course content.

- **Student Dashboard:**

  - Implemented personalized messages and a structured display for students to view their marks (assignments, midterm, labs/tutorials, final exam).

  - Integrated a "Submit Remark Request" feature next to each mark. When a student clicks the button, a text box appears for entering the remark reason, and the submission is handled dynamically via JavaScript.

  - Created an anonymous feedback submission form with questions about the instructor's teaching and lab sessions, including a dropdown to select the instructor.
  - Only the student can see their own marks and not the marks of anyone else.

- **Instructor Dashboard:**

  - Provided a dynamic view where instructors can access all students' marks in a clean and structured table format.

  - Implemented a feature for instructors to view anonymous feedback intended for them and mark feedback as "reviewed".

  - Developed a remark requests panel for instructors to review, approve, or reject student requests.

- Enabled instructors to enter and update student marks with dynamic page updates to reflect changes immediately.

2. Features That Were Challenging

- **Database Data Fetching:**

  - While most features were implemented successfully, I encountered difficulties fetching data from the SQLite database to display on the webpage. This issue impacted dynamic data retrieval in some parts of the dashboard. Despite troubleshooting, the integration between Flask's database queries and the front-end display required more time to perfect.

3. Work Division

- **Individual Effort:**

  - I completed all aspects of the assignment independently, handling both the front-end (HTML, CSS, JavaScript) and the back-end (Flask, SQLite, authentication) development.

4. Extra Features Added

- **Dynamic JavaScript Updates:**

  - Enhanced the remark request submission and marks update features by incorporating JavaScript that updates the page content without a full reload, thereby improving the overall user experience.