

UNITED STATES INTERNATIONAL UNIVERSITY – AFRICA

SCHOOL OF SCIENCE AND TECHNOLOGY

APP 4035 WEB DEVELOPMENT FRAMEWORKS

SEMESTER PROJECT

AN EXAMINATION PROCESSING SYSTEM

Working in groups as earlier agreed, you are expected to develop a **distributed** web application that processes examinations for a given university. More specifically the application should:

1. Enable a student to register for at least 5 courses per semester **and** 10 courses per academic year. The system should print a report showing the courses for which a student is registered at any given time.
2. Enable two or more lecturers to enter **2 ASSIGNMENTS**, **2 CATS** and **1 Exam score** for each registered student independently from their (lecturers') devices. The entered data should be destined to the same **cloud database**. For the time being, it is assumed that each lecturer teaches **only one** course.
3. Enable the administrator to generate a report showing:
 - a. Students who have passed all courses in a semester.
 - b. Students who have passed all courses in a year.
 - c. Students who have failed one or more courses in a semester and the courses that they failed (List of Fails).
 - d. Students who have failed one or more courses in a year and the courses that they failed (List of Supplementary Examinations)
 - e. Students who were not able to do examinations because of school fees or medical reasons (List of specials)
 - f. Students who do not have marks (both CATs and Exam Marks) in at least one course.
 - g. Students who registered but are missing marks in all the course.
 - h. Students who are attempting a course for the second time (having failed in the first attempt).
4. **Not** allow a lecturer to edit marks entered.
5. **Allow** the administrator to edit the entered marks.
6. **Print** a **summary** of all marks scored per course (per semester and per year) per student for a class e.g APT 4035, total marks for all courses per student, mean per student and a recommendation per student (e.g pass, fail, 2 supplementaries etc).