COURSE ASSESSMENT 2023 FOR GROUP ASSIGNMENT/PRESENTATION OF PRG510S PROGRAMMING 1, SEMESTER 2

COURSE DETAILS

Course Code:	PRG510S		Semester:	2
Course Title:	Programming 1			
Lecturer(s):	Coordinator:	Dr. A. A. Azeta		
Internal Moderator				

SUBMISSION

Soft Copy:	• Students should divide themselves into groups of minimum 5 and maximum 6 per group. • Date of Group Assignment presentation/defence via Face-to-Face (F2F) Will be 2-6 October 2023.

ASSESSMENT

The Assessment is:	20%	Groupings	Min 5 and Max 6 students per group
Assessment Strategy The assessment strategy is designed to evaluate the student's achievement of the course learning outcomes.			

ASSIGNMENT DETAILS

The main aim of this Group Assignment is for the students to create a Java application to demonstrate all that have been leant in the Programming 1 during the semester. Students/groups are expected to pick a topic and derive the Functionalities, Services and Requirements (FSR). For example, the following are the FSR that a **Hospital Management System (HMS)** software will render:

S.No.	NAME OF MENU/ MODULE	ROLE OF THE SOFTWARE ACTORS	DESCRIPTION/ROLE
a.	Login	Patient Doctor Admin	**PATIENT:** Can login using unique Id and Password after which the system shall show his/her profile. **DOCTOR:** Can login using unique Id and Password after which the system shall show his/her profile. **ADMIN:** Can login using unique Id and Password after which the system shall show a profile with links to maintain the website.
b.	Registration	Patient	**PATIENT:** Can Register by filling all the required details, after which the system will verify the details and check if already registered or not. All records should be kept in a

			Database for storage and easy retrieval.
c.	Book Appointment	Patient	**PATIENT:** Can Select doctor, date time and make an appointment request after which the system shall show a confirmation for appointment request.
d.	Cancel Appointment.	Patient Doctor	**PATIENT :** Can Cancel appointment by just one click after which the system shall ask for re-schedule. **DOCTOR :** Can Cancel appointment by just one click after which the system shall send a message to the patient.
e.	Doctor Module	Admin	**ADMIN :** Can add a new doctor by filling all the details after which the system shall show a confirmation message. Can Remove a doctor by just one click after which the system shall show confirmation message.
f	Patient Module	Patient	**PATIENT :** Can also see or search for a doctor by entering dept, name or doctor id if known, after which the system will check for the doctor if found shall show doctor's profile.

Students/groups are expected to discuss with a professional/someone in the field/domain of the software in order to acquire the Functionalities, Services and Requirements (FSR) from the institution/organisation. You may also get the FSR of your software from the Internet. For instance, in the case of developing a Hospital Management System (HMS), you can either get the FSR by discussing with a medical doctor/nurse in the hospital or get the FSR from the Internet.

PART I : Program Functionality

The program / Application approach is entirely up to you, so long as it follows the description above. In addition, innovation and creativity will be an added advantage, however below are guidelines to follow:
1. Different menu levels: For instance, Landing page, Admin Menu, Doctor Menu & Patient Menu**[2 marks]**
2. Database storage using data Structures such Arrays etc. **[2 marks]**
3. Each GUI/Menu/Module a. to f. in the above table & Database carries 1½ mks each(1½ x 6=9)**[9 mks]**

PART II: Program formatting and presentation

The source code will be marked according to the following indicators.
4. Good modular designs within same program file, different methods per functionality **[2 mark]**
5. Good comments **[2 mark]**
6. Ability to explain a portion of the code as may be required by the evaluator **[3 marks]**

TOTAL=20%

PART III: STUDENTS/GROUPS SHOULD NOT PICK HMS AS A TOPIC, RATHER STUDENTS CAN PICK ANY OF THE FOLLOWING TOPICS, DEVELOP THE FUNCTIONALITIES/ SERVICES/ AND REQUIRMENTS SIMILAR TO THAT OF HMS AND WORK ON IT AS A GROUP

SN	SUGEGSTED GROUP ASSIGNMENT TOPICS
1	Development Of A Mail Tracking System
2	Development Of A Student Disciplinary Management System
3	Development Of Class Attendance System
4	Development Of An Invoice Mgt System(Using Shopping Mall As A Case Study)
5	Development Of A Personal Bank Account Management System
6	Development Of A Student Profile Management System
7	Development Of FCI Social Network System
8	Development Of eCampus System

9	Development Of A Property Management System
10	Development Of A Gym Management System
11	Development Of Electricity Management System
12	Development Of A Water Management System
13	Development Of eBanking System
14	Development Of A Food Ordering System
15	Development Of A Vehicle/Bus Seat Reservation System
16	Development Of A Hotel Reservation System
17	Development Of An Online Examination System
18	Development Of A Timetable Management System
19	Development Of Mark/Result Processing System
20	Development Of Restaurant Order/Delivery Management System
21	Development Of eElection Or Evoting System
22	Development Of eGovernment System
23	Development Of An Online Survey System
24	Development Of An eCommerce System
25	Development Of A Job Recruitment System
26	Development Of An eLearning System
27	Development Of Airline Seat Reservation System
28	Development Of A Point-Of-Sales System
29	Development Of A Game Playing System
30	Development Of A Service Request System
31	Development Of A Waste Management System
32	Development of A Payroll System
33	Development of An Information Extraction System
34	Development of a Shopping Mall Management System
35	Development of a Final year project/Thesis storage for easy search of topic, abstract and content.
36	Development of a Bookshop Management System
Students/groups that have any other viable topic that is not listed here should send an email to the Course Coordinator - Dr. Azeta postgraduatementor@gmail.com for approval before starting the project.	

PART IV: Further information

- EXTRA MARKS WILL BE AWARDED FOR CRITICAL THINKING AND CREATIVE IDEAS.
- PLEASE NOTE THAT INABILITY TO EXPLAIN YOUR CODE WILL LEAD TO ALL THE MARKS BEING PEGGED AT ZERO (SEE TEACHING PHYLOSOPHY IN COURSE OUTLINE).
- PLAGARISM WILL NOT BE TOLERATED AND HENCE IF ASSIGNMENTS ARE COPIED OR COPIED FROM ONLINE RESOURCES OR SHARED, THEN ALL STUDENTS INVOLVED ARE DISQUALIFIED.