Class Diagram

Mini Project

ICT 2123 Object Oriented Development.

By -Group 09

TG/2019/520: L.G.N. Sewwandi

TG/2019/500: R.M.S.C Bandara.

TG/2019/506: A.P.G.G Chiranjitha.

TG/2019/524: G.K Dulanjana.

TG/2019/501:R.P.L. vihanga

Lecturer in charge: Ms. Chanduni gamage

Submission Date: 2022/05/04.

Bachelor of Information and Communication Technology.

Department of Information and Communication Technology.

Faculty of Technology.

University of Ruhuna.

FOT

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Department

+ dep_id (varchar)
+ dep_name(varchar)

User

+ ID (varchar)
+ name (varchar)
+ address (varchar)
e-mail (varchar)
+ DOB (date)
+ mobile (number)
+ gender (char)

+ view_notice() :

Admin

+ ad_role: string

-create_user():
-maintain_user():
-create_timetable():
-maintain_timetable():
-create_notice():
-maintain_notice():
-create_course():
-maintain_course():

Technical officer

-view_notice():
-view_timetable():
-work_department():
-maintain_medical():
-maintain_attendance():

Lecturer

+ position: string

- update_profile():
- add_course_materials():
- modify_course_details():
- upload_mark():
+ view_student_eligibility():
+ view_student_details():
+ view_student_mark():
+ view_attendance():
+ view_medical():
+ view_notice():

Student

+ s_type: string

+ update_contact_details()
+ update_profile_picture()
+ view_attendance()
+ view_medical()
+ view_course_details()
+ view_grade()
+ view_timetable()
+ view_notice()

---

medical

+ medical_id: (varchar)
+ start_date: (date)
+ end_date: (date)

---

attendance

+ atd_id: (varchar)
+ student_id: (varchar)
atd_date: (date)
+ atd_status: (varchar)
+ course_id: (varchar)

---

exam_mark

+ exam_id: (varchar)
+ exam_score: (int)
+ exam_type: (varchar)

---

course

+ course_id: (varchar)
+ course_name: (varchar)
+ credit: (int)

---

final_attendance

+ stu_id: (varchar)
+ course_id: (varchar)
+ eligibility: (varchar)

Quiz

- quiz_no : (int)
- quiz_mark: (float)

Assessment

- as_no: (int)
- as_mark: (float)

Mid_exam

- mid_mark: (float)

End_exam

- p_mark: (float)
- t_mark: (float)

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final_exam

- final_mark: (float)
- gpa: (float)
- grade: (char)

-calculate_gpa()
-calculate_sgpa()
-calculate_grade()