

Final Report

Management Information System For
Faculty of Technology

ICT2113-Object Oriented Development
Lecture in Charge: Ms. Chanduni Gamage
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Group Number 06

Group Members: -

TG/2019/480

TG/2019/487

TG/2019/493

TG/2019/523



Department of Information and Communication Technology
Faculty of Technology
University of Ruhuna

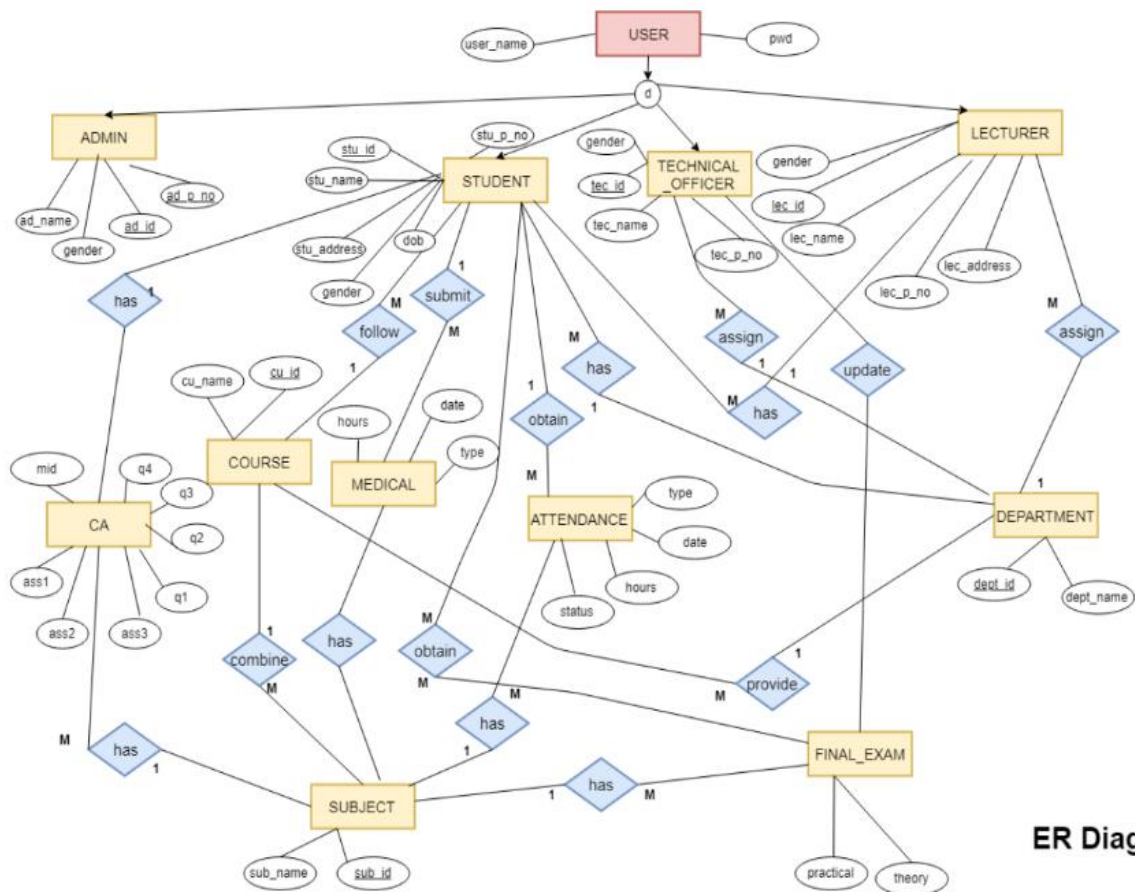
Contents

1)Problems	2
2) ER Diagram	3
3) Class Diagram.....	4
4) System Requirements	5
4.1. Functionalities of the system	5
4.2. Non-Functionalities of the system	5
5) Screenshots of Interfaces	6
6) Self-Contribution	13

1)Problems

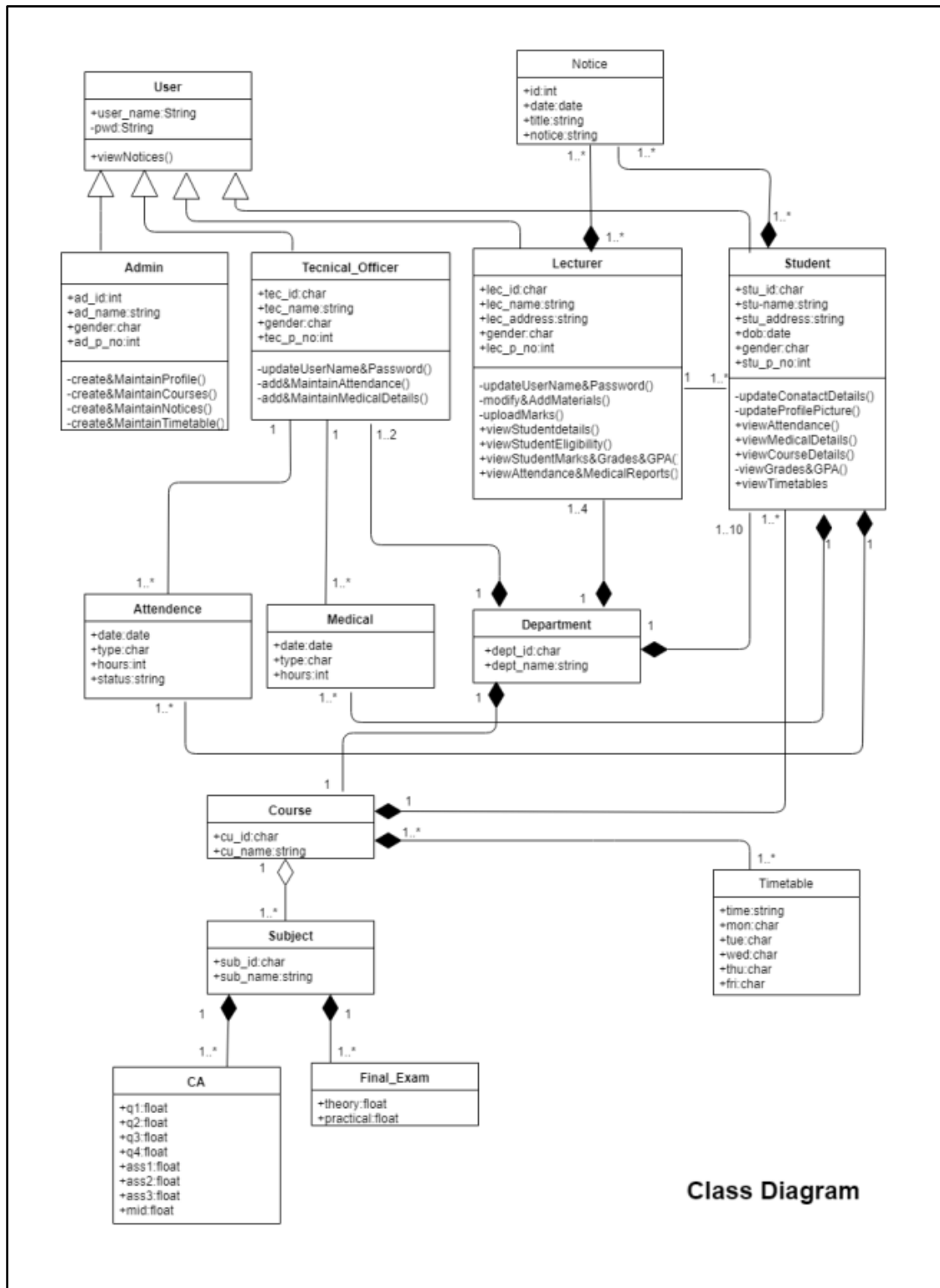
- The system should be developed **Management Information System (MIS)** for the Faculty of Technology, University of Ruhuna.
- System must create a user profile of admin, lecturer, technical officer and student.
- System must create timetables and notices.
- System should include tables to store quiz marks, assessment marks, mid-semester marks, final marks etc.
- System should include tables to store data about course modules.
- System should include tables to store data about all the user's admin to the student.
- System must go through the DDLC process.
- System must store data for 01 admin, at least 04 lecturers, at least 02 technical officers at least 10 students.
- System should record attendance details for six subjects in 15 ways.
- There should be a way to check eligibility (attendance + CA marks) as individuals and for the whole batch in the system.
- There should be a way to see the final marks only for individuals and whole batch in the system.
- The grade should be according to the by law of the faculty.
- System should include to see the marks for each subject, student and as a whole batch and also to see grades for each subject, student and as a whole batch.
- Finally, system should be able to show the CGPA and SGPA with the subjects and grades for each student and for the whole batch.

2) ER Diagram



ER Diagram

3) Class Diagram



4) System Requirements

4.1. Functionalities of the system

Admin

- Shall be able to create and maintain all User Profiles.
- Shall be able to create and maintain Courses.
- Shall be able to create and maintain Notices.
- Shall be able to create and maintain Timetables.

Lecturer

- Shall be able to update their profile except username and password
- Shall be able to modify and add materials to courses
- Shall be able to upload marks for all kind of exams
- Shall be able to see student details
- Shall be able to see student eligibility
- Shall be able to see student marks, grades and GPA
- Shall be able to see attendance and medical records of students
- Shall be able to see notices

Technical Officer

- Shall be able to update their profile except username and password
- Shall be able to add and maintain attendance details of students
- Shall be able to add and maintain medical details of students
- Shall be able to see notices

Student

- Shall be able to update only contact details and profile picture of their profile
- Shall be able to see attendance details
- Shall be able to see medical details
- Shall be able to see their course details
- Shall be able to see their grades and GPA
- Shall be able to see their timetables
- Shall be able to see notices

4.2. Non-Functionalities of the system

- Security: Only authorized users can access the system with username and password.
- Performance: Easy tracking of records and updating can be done.
- User Friendly: The system is very interactive.
- The system should be easy use.
- System should provide specific information to specific user.

5) Screenshots of Interfaces



A screenshot of a login form. The background is a light gray. On the left, there is an illustration of a woman in a blue shirt and black pants standing next to a large laptop. A blue circular icon with a white padlock is positioned above the laptop. The word "Login" is centered at the top in a bold black font. Below it, the labels "UserName" and "Password" are placed above their respective input fields. At the bottom, there are two buttons: a blue "Login" button and a red "Reset" button.

Login

UserName

Password

Login **Reset**

Admin Part

User Profiles

Courses

Notices

Time Table

Admin Dashbord

update your profile

Name

Gender

ID Number

Update

Phone Number

E - Mail

Add User

ID Number

Name

Email

Password

Confirm Password

Phone Number

Gender

Female

Roll

Student

ADD

Reset

Update

User profiles

Select a row

Delete

Edit

ID	Name	Email	Phone Number	Gender
AD001	Dilum Sadeepa	dilumhelo@gmail...	1234567890	Male
AD002	Supun Perera	amali@email.com	1234567123	Select
LEC001	Kamal Aberathna	amali@gmail.co	1234567890	Male
TG001	Nimal Perera	nimal@nimal.com	1234567890	Male
TG003	Hasani Sewwandi	hasaniseewandi...	0771234342	Female

Add Notice

Topic

Notice

Department ID

Date

ADD

Reset

Update

Notice profiles

Delete

Edit

Topic	Note	Department	Date
The Project	The mini project is goi...	ICT	2022-05-26

Add Course

Course ID

Course Name

Department ID

ICT

ADD

Reset

Update

Course profiles

Delete

Edit

Add lecture to course

course ID	Course Name	Department
ICT2201	Internet Aplication Developm...	ICT

Add Lecture to Course

Lecture ID

Course ID

Add

Reset

DELETE

Course ID	Lecture ID
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cancel

Lecture Part

Lecture Dashboard

Modify & Add Subject [View](#)

Upload Marks [View](#)

Student Details [View](#)

Student Eligibility [View](#)

Student Attendance [View](#)

Student Marks, Grade & GPA [View](#)

Student Medical Report [View](#)

Update Username & Password

Email

Password

[Update](#)

[illegible][illegible]

The screenshot shows a web application with a pink header containing the title "Student Eligibility". Below the header is a blue sidebar on the left and a main content area on the right. The sidebar contains three input fields labeled "Student ID", "Attendance", and "Eligibility", each with a corresponding "Search" button. The main content area has a title "Check All Students Eligibility" and a "Check" button. Below these is a table with two columns: "Student ID" and "Eligibility". The table is currently empty.

The screenshot displays a web application interface for checking student medical reports. The main heading is "Medical Report". Below it, a section titled "Check all student's Medical reports" contains a "Check" button. To the left, there is a form with a "Student ID" input field and a "Check" button. Below this, there are two more input fields labeled "Number of Attendance" and "Number of Medical report". On the right, a table is visible with columns "Stu_id", "No of Attendance", and "No of Medical_re". The table has several rows, but the data is mostly obscured by a large grey rectangular area.

The screenshot shows a Java Swing application window titled "Student Details". The window has a pink header bar. Below the header, there is a light green sidebar on the left containing labels for "Student ID", "Name", "Email", "Telephone Number", and "Gender". The main area has a light blue header bar with the text "Check all students details". Below this, there is a table with columns: "Stu_id", "Name", "email", "Tele", and "gender". The table body is currently empty.

Student Part

Student

PROFILE

ATTENDANCE

MEDICAL

COURSE

GRADE

TIME TABLE

HOME

NOTICE

Back

Course Details

Course code	Course title	Course name
-------------	--------------	-------------

Back

Students Attendance

Student ID	Status	Monday	tuesday	wednesday	thursday	Friday
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Back

Edit Details

Email:

Pasword:

Technical Officer Part

Back

Medical

Add New Medical

Student ID :

Cours Name :

Date :

Hours :

Type :

Theory

Reset

Upload Medical

Update Medical

Delete Medical

Views Medicals

Back

Time Table

Title 1	Title 2	Title 3	Title 4

Back

Students Attendance

at_type	at_date	at_status	at_st_id	at_sub_id

Back

Change Password

Email

Password

Update Password

Clear

[Back](#)

Students Attendance

Add New Attendance

Course Id

Student Id

Type

Date

Status

[Submit](#)[Clear](#)

[View Attendance](#)

[Delete](#)

[Update](#)

Technical Officer Dashboard

[Update Profile Username And Password](#)[Update](#)

[Add And Maintain Attendance Details Of Students](#)[Update](#)

[Add And Maintain Medical details Of Students](#)[Update](#)

[See Notice](#)[Views](#)

[See Time Table](#)[Views](#)

[Home](#)[Log Out](#)

6) Self-Contribution

TG/2019/480– E.M.D.S. Ekanayaka

- User Login Interface and Coding
- Admin Interfaces and Coding
- Some lecture Coding
- ER Diagram and Class Diagram

TG/2019/487– A.M.H.S.G.Bandara

- Lecturer Interfaces and Coding
- ER Diagram and Class Diagram

TG/2019/493 – W.A.Pimuditha

- Student Interfaces and Coding
- ER Diagram and Class Diagram

TG/2019/523 – K.K.C.D.Premalal

- Technical officer Interfaces and Coding
- ER Diagram and Class Diagram

