RICHFIELD GRADUATE INSTITUTE OF TECHNOLOGY (PTY) LTD

FACULTY OF INFORMATION TECHNOLOGY

PROGRAMMING 512

2ND SEMESTER ASSIGNMENT

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Qualification: DIT 3 year   **Semester:** 2   **Module Name:** Programming 512

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ASSESSMENT CRITERIA	MARK ALLOCATION	EXAMINER MARKS	MODERATOR MARKS
MARKS FOR CONTENT			
QUESTION ONE	**100**		
TOTAL MARKS	**100**		
MARKS FOR TECHNICAL ASPECTS			
1. TABLE OF CONTENTS			
2. LAYOUT AND SPELLING			
3. REFERENCE			
TOTAL MARKS			
TOTAL MARKS FOR ASSIGNMENT	**100**		
Examiner's Comments:			
Moderator's Comments:			

Signature of Examiner: **Signature of Moderator:**

QUESTIONS **[100 MARKS]**

QUESTION ONE **[100 MARKS]**

Objectives: Develop an Institution management system (based on VB.NET platform) linked with Microsoft Access Database as infrastructural support. The primary purpose of this application is to automate students, modules, staff's information and other data resources.

The system Functionality

1.1 Create the following database for the following list and add functions to each one of them **(40)**

- Student Management
  - Adding New Student
  - Edit the Exiting Students Details
  - Listing of all Students
- Fees Management
  - Adding fees of the students
  - Listing of all fees paid by students
  - Editing the student fees details
- Employee/Faculty
  - Adding new Employee/Faculty
  - Edit the Employee/Faculty Details
  - Listing of all Faculties/Employees
- Manage Salary
  - Add salary of the Employee/faculties
  - Edit the salary details
  - Listing of all salary paid to employee/faculties
- Manage Courses
  - Adding new courses of college
  - Listing of all courses
  - Editing the details of courses
- Manage System Users
  - Add new System User
  - Listing of Users
  - View Details of Users

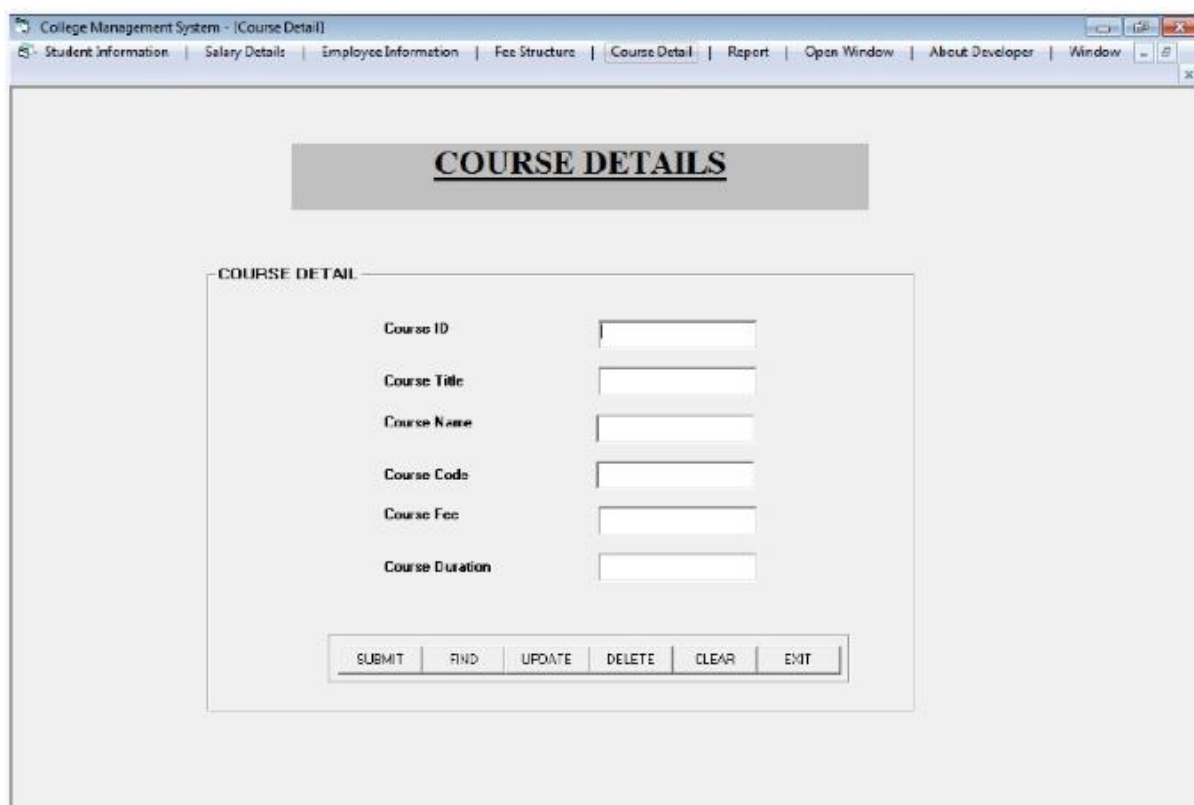1.2 Create login system for admin and users **(20)**

- Login For Admin
- Change Password for Admin
- Edit Profile For Admin

1.3 Connect the database to the project **(20)**

1.4 Error Handling exceptions should be included where appropriate **(20)**

Figure 1.1: Login

Figure 1.2: Course login

EMPLOYEE INFORMATION

Employee ID

Personal Details

Employee Title

Employee First Name

Employee Last Name

Date of Birth   14-Mar-2010

Contact Details

Mobile Number

Phone Number

Email Id

Address Details

Permanent Address

Local Address

Official Information

Employee Designation

Employee Type

Salary

SUBMIT   FIND   MODIFY   DELETE   CLEAR   EXIT   PRINT

Figure 1.3: Employee Information

FEES INFORAMTION

FEE STRUCTURE

Fees Id

Student ID

Payment Type   Combo1

Fees Date   Combo1

Fees Month   Combo1

Fees Year   Combo1

Fees Ammount

SUBMIT   FIND   MODIFY   DELETE   CLEAR   EXIT

Figure 1.4: Fees Information

Figure 1.5: Salary Information

Figure 1.6: Student Information

Figure 1.7: Loading form

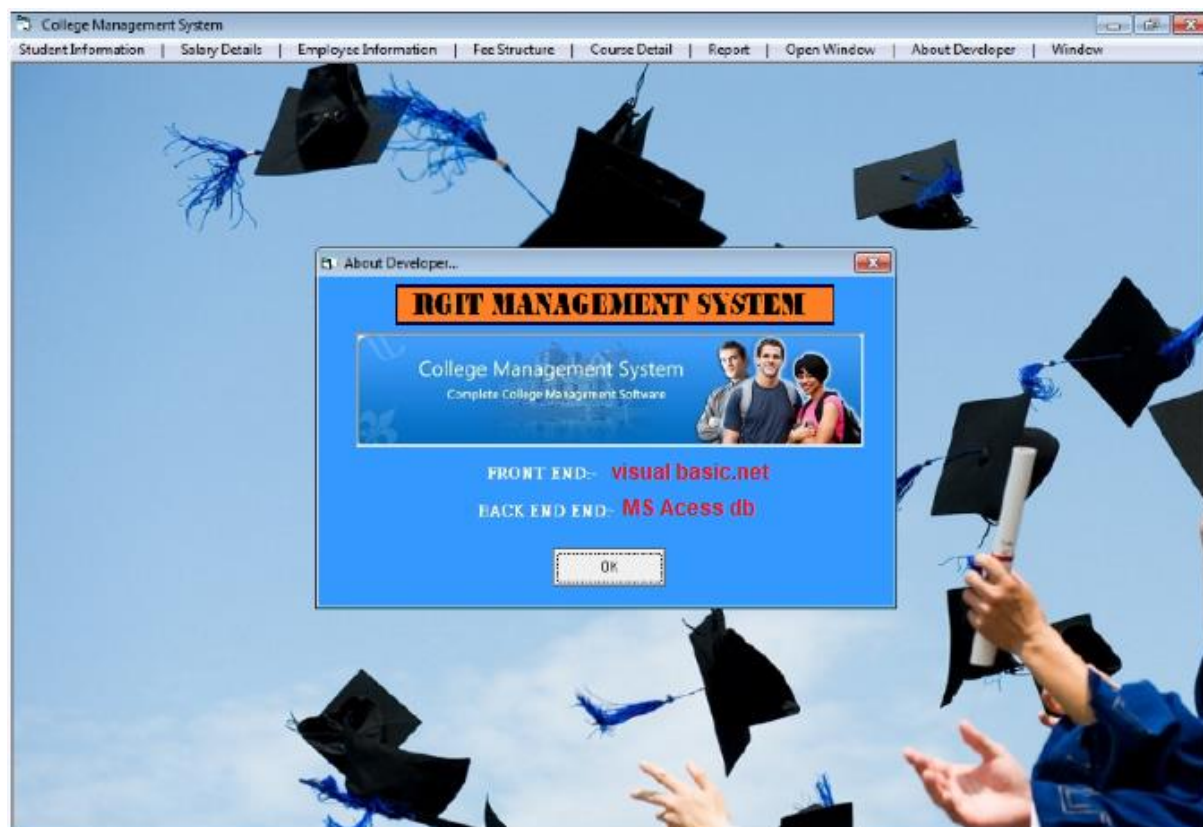**Figure 1.8: About the Developer**

Features of Student Module:

- Admin can add new student
- Admin can see the list of student details
- Only admin can edit and update the record of the student
- Admin will be able to delete the records of the student
- Student will be able to see his details
- Student will be able to update his details

Features of Employee Module:

- Admin can manage the employee
- Admin can edit/delete the employee
- Admin can see the list of all employee
- Student can see employee

Features of Fees Module:

- Admin can manage the fees
- Admin can edit/delete the fees
- Admin can see the list of all fees
- Student can see fees

Features of Course Module:

- Admin can manage the course
- Admin can edit/delete the course
- Admin can see the list of all course
- Student can see course

Implications: The RGI Linked Database will be used in combination with medical record audits to provide a comprehensive evaluation of health system performance.

Security measures

- Put identification, authentication and authorization measures in place.
- Ensure that only authorized personnel can have access to the system.
- Be mindful of how student data is secured and implement a good accuracy.

TOTAL: 100 MARKS