



A Project

Report

On

STUDENT MANAGEMENT SYSTEM

By

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Introduction:

The student management system project report is used to formulate the idea of minimizing administrations' workload in managing students' information. This project report simplifies the needed information, including tracking for both parents and administrative staff, by coordinating scheduling and communications between professors and students.

. Modules:-

- Login Module
- GeneratedID Module
- Enroll Module
- View Balance Module
- Pay Tuition Fees Module
- Check Status Module

I have implemented this project using java 8.0 and Mysql 8.0 It is a console based project.

OBJECTIVE

The main objective of the Student Management System is to provide information about generationId of unique students with their respective gradeYear ,login details,Enrollment of the course,Tuition Fees,Viewing balance of each student after payment and status of the student. This project is developed by console app through administrative end. It provides teachers easy access for the student information and manages their time easily.

MODULES

- 1. <u>LOGIN MODULE</u>- The student login module is used for the user to enter their correct username and password provided by the administrator, for performing StudentOperations. Providing wrong credentials will display a message in the console with username/password incorrect.
- 2. GENERATE_ID MODULE- This module is used for generating 5 digit unique_id for each student by combining their individual id's to the grade Year in which they are studying. This id is generated by allowing the user to enter the student individual id and the respective grade Year of the student.

- 3. <u>ENROLL MODULE</u> In this module students are enrolled for the course by allowing the user to enter course id, course fees for each course provided by the administrator .It calculates the total course fees based on the course enrolled by the student by cost of each course .The Remaining balance is calculated by the total course fees after enrolling.
 - **4.VIEW BALANCE MODULE** The view balance module is used for checking the students remaining balance, allowing the user to input the courseId of the respective course for displaying the remaining balance after registering for the course.
 - **5.PAY TUITION FEES MODULE** The module is used for allowing the user to enter the amount to be paid for the entire duration by deduction from its overall remaining balance. If the user enters the payment more than the remaining balance ,the message will display invalid payment amount from the user in the console.
 - **6.**CHECK STATUS MODULE The status module is used to display the information about the student details such as studentName, student id , course name and remaining balance of the student by allowing the user to enter the correct student id and course id associated with the student in the record

Software Requirements:

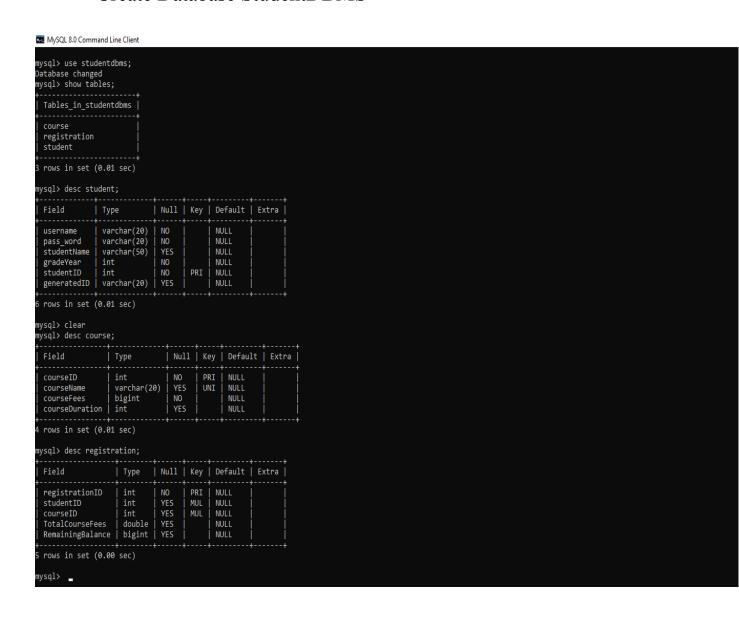
Back end: MySQL workbench 8.0 CE, Java 8.0

Browser: Google Chrome

Operating System: Windows10

Data Dictionary:

Create Database StudentDBMS



Screenshots:-

Login Module:

1)

2)

```
Username: Shantanull0

Password: 12345

Incorrect username or password!!
```

GeneratedID Module:

```
______
----- STUDENT OPERATIONS -----
   ______
             Enter 1-> Generate ID of the student
             Enter 2-> Enroll
             Enter 3-> TutionBalance
             Enter 4-> payTutionfee.
             Enter 5-> status
             Enter 6-> logout
______
             Enter a valid input between 1 to 6:
Enter the student id:
1000
Enter the gradeYear of student:
Generated id is: 91000
______
    Enter 1-> Generate ID of the student
            Enter 2-> Enroll
            Enter 3-> TutionBalance
            Enter 4-> payTutionfee.
            Enter 5-> status
            Enter 6-> logout
            Enter a valid input between 1 to 6:
Enter the student id:
1000
Enter the gradeYear of student:
Invalid student id or gradeYear
Enroll Module:
   Enter 1-> Generate ID of the student
          Enter 2-> Enroll
          Enter 3-> TutionBalance
          Enter 4-> payTutionfee.
          Enter 5-> status
          Enter 6-> logout
          Enter a valid input between 1 to 6:
Enter the courseID :
104
Enter the courseFees :
Enter the TotalCourseFees :
9400
Enter the Remaining Balance :
20600
CourseEnrolled : DEVOPS
Total course fees is :10600.0
Remaining Balance :10000
```

true

```
2)
   Enter 1-> Generate ID of the student
            Enter 2-> Enroll
            Enter 3-> TutionBalance
            Enter 4-> payTutionfee.
           Enter 5-> status
           Enter 6-> logout
           Enter a valid input between 1 to 6:
Enter the courseID :
110
Enter the courseFees :
4567
Enter the TotalCourseFees :
Enter the Remaining Balance :
50000
Operation not performed
   ----- STUDENT OPERATIONS -----
  _____
            Enter 1-> Generate ID of the student
            Enter 2-> Enroll
            Enter 3-> TutionBalance
            Enter 4-> payTutionfee.
            Enter 5-> status
           Enter 6-> logout
______
           Enter a valid input between 1 to 6:
Enter the courseID :
104
Enter the courseFees :
1200
Enter the TotalCourseFees:
Enter the Remaining Balance :
10000
```

View Balance Module:

CourseEnrolled : DEVOPS

Total course fees is :10600.0 Remaining Balance not performed

PayTuitionFees Module: 1)

```
----- STUDENT OPERATIONS -----
               Enter 1-> Generate ID of the student
               Enter 2-> Enroll
               Enter 3-> TutionBalance
               Enter 4-> payTutionfee.
               Enter 5-> status
               Enter 6-> logout
              Enter a valid input between 1 to 6:
Enter the studentID of the student :
Enter the payment:
5000
Tution balance fee is :16300
  ------ STUDENT OPERATIONS -----
               Enter 1-> Generate ID of the student
               Enter 2-> Enroll
               Enter 3-> TutionBalance
               Enter 4-> payTutionfee.
               Enter 5-> status
               Enter 6-> logout
               Enter a valid input between 1 to 6:
Enter the studentID of the student :
Enter the payment:
50000
Invalid Tution Amount !!!
```

2)

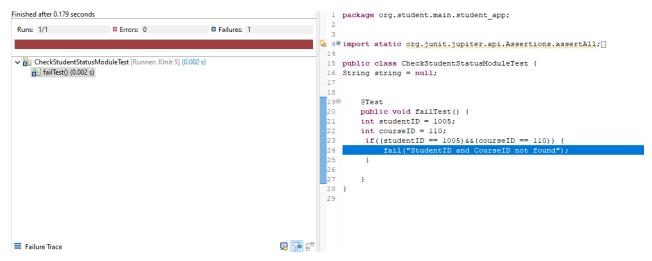
```
Enter 1-> Generate ID of the student
Enter 2-> Enroll
Enter 3-> TutionBalance
Enter 4-> payTutionfee.
Enter 5-> status
Enter 6-> logout

Enter a valid input between 1 to 6:

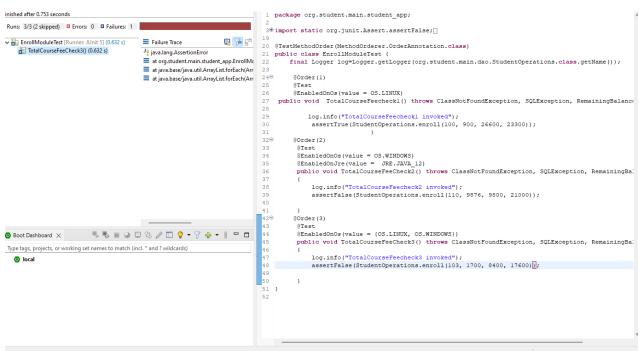
4
Enter the studentID of the student :
1100
Enter the payment:
50000
Invalid studentID
```

```
Enter 1-> Generate ID of the student
           Enter 2-> Enroll
           Enter 3-> TutionBalance
           Enter 4-> payTutionfee.
           Enter 5-> status
           Enter 6-> logout
           Enter a valid input between 1 to 6:
 Enter studentID:
 1000
 Enter courseID:
 *******************
 Student name : Shantanu
 Student ID: 1000
 Course name : DBMS
 RemainingBalance: 16300
  ----- STUDENT OPERATIONS -----
  ______
           Enter 1-> Generate ID of the student
           Enter 2-> Enroll
           Enter 3-> TutionBalance
           Enter 4-> payTutionfee.
           Enter 5-> status
           Enter 6-> logout
 ______
           Enter a valid input between 1 to 6:
 Enter studentID:
 Enter courseID:
 **********
 Invalid studentID/courseID
Logout:
  Enter 1-> Generate ID of the student
           Enter 2-> Enroll
           Enter 3-> TutionBalance
           Enter 4-> payTutionfee.
           Enter 5-> status
           Enter 6-> logout
           Enter a valid input between 1 to 6:
Successfully logged out Bye!!
```

Check status module test:



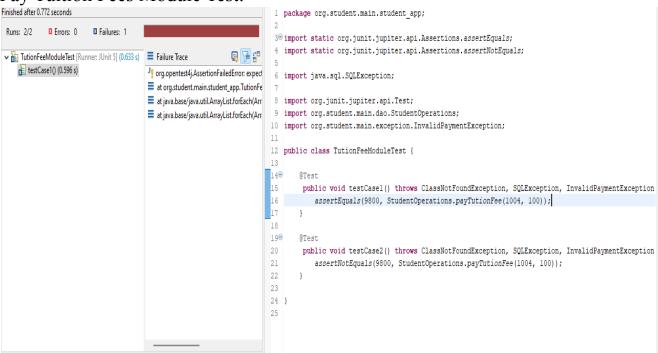
Enroll Module Test:



Generated StudentID Module Test:

Login Module Test:

Pay Tuition Fees Module Test:



View Balance Module Test:

THANK YOU