Mastering Embedded System Online Diploma

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First Term (Final Project 2)

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Student Management System

# Description

A students’ database management system based on the Linked List queue data structure.

# System Operation

1. Add student Manually.
2. Add Students from text file.
3. Find Student by roll number.
4. Find Student by first name.
5. Find students enrolled in course.
6. Find Total number of students.
7. Delete student by roll number.
8. Update student information.

# System Assumptions:

1. Controller setup and shutdown procedure are not modeled.
2. Controller maintenance is not modeled.
3. Pressure sensor never fails.
4. Alarm never fails.
5. All components never face power cut.

# System design

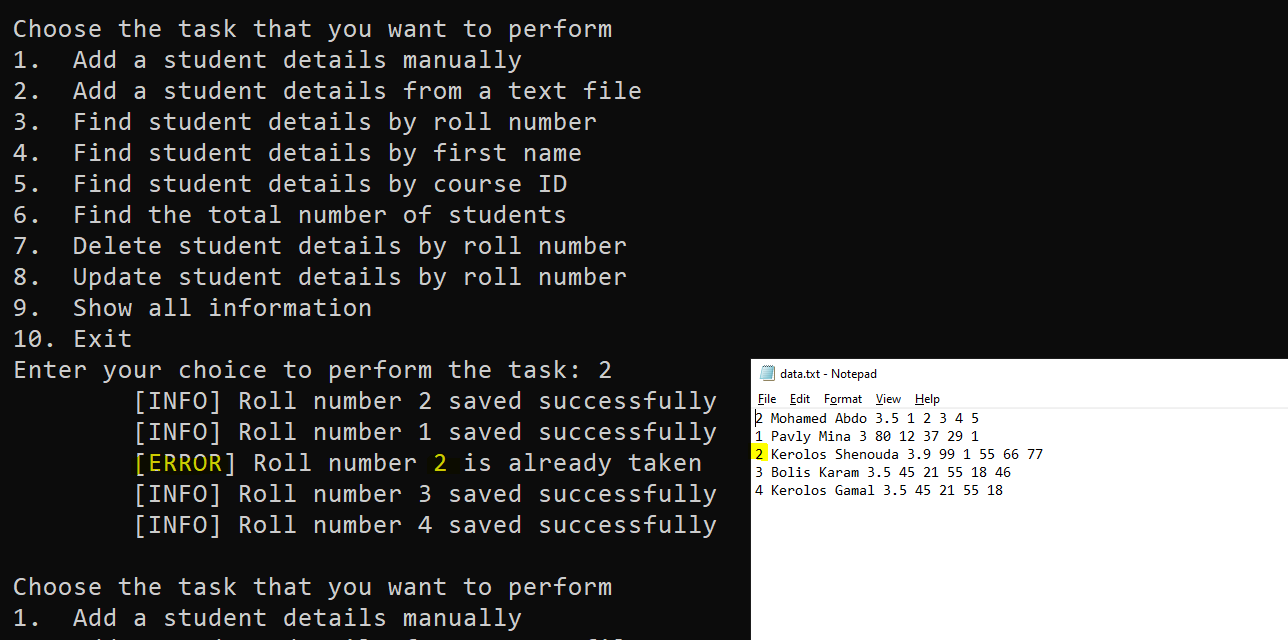
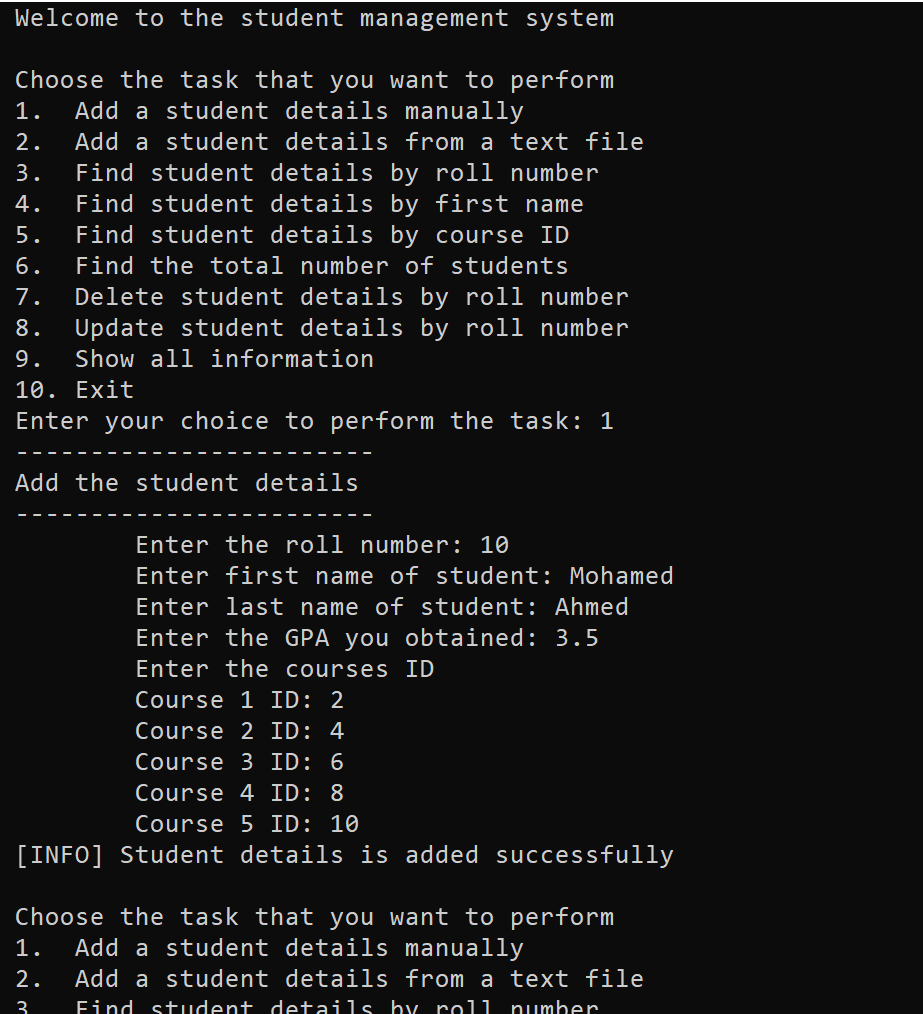
Node is struct contain 2 element

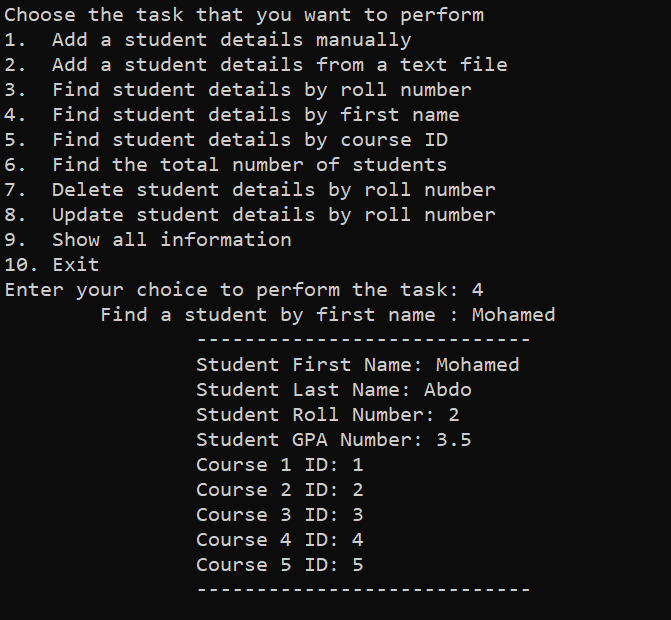
1. Struct of student information.
2. Pointer to Next Node.

Diagram

Description automatically generated

# Screenshots

Text

Description automatically generatedText

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Description automatically generated