

Student Information Management System

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Logo
Name

Student Information Management System

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1st Term 2nd Project

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Abstract

Create Database to manage students' data based on FIFO data structure (Queue)

- Student Data is
 - Student First name
 - Student Last name
 - Student ID
 - GPA
 - Courses Numbers

```
struct SSinfo
{
    char fname[20];
    char lname[20];
    int sid;
    int courseid[8];
    float gpa;
};
```

- Operations:
 - 1- Add Students From File
 - 2- Add Student Manually
 - 3- Find Student by ID
 - 4- Find Student by first name
 - 5- Number of Students
 - 6- Delete Student by ID
 - 7- Find Student in Course number
 - 8- Update Student
 - 9- Display Database
 - 10- Save Database

APIs:

```
/****** APIs *****/

/* Add Student From known File*/
RETURN_STATUS AddS_FromFile(char *filename);

/* Add Student Manual*/
RETURN_STATUS AddS_Manual();

/*Find Student by ID */
RETURN_STATUS FindS_ById(int Sid);

/*Find Student by First name */
RETURN_STATUS FindS_ByFname(char *Sfname);

/*Find Students Registered in same Course*/
RETURN_STATUS FindS_InCourse(int CourseId);

/*Find Students counts in DB */
int SCounts();

/* Delete Student */
RETURN_STATUS DeleteS(int Sid);

/* Update Student */
RETURN_STATUS UpdateS(int Sid);

/*Show Students */
RETURN_STATUS ShowDB();

void DisplayStudent(struct SSinfo stud);

RETURN_STATUS StoreInFile(char *filename);
```

