**1.Student information :**

**1.1 Enter student information**

User should enter required data :

* + - Full name
    - ID
    - Level
    - Address
    - Phone number
* Administration staff can also get these information from student by email
* 1.1.1 in case of incorrect or incomplete information “show unvalid data”

Send email to student to correct your information

* 1.1.2 in case of correct information

Show Success operation

**1.*2* Update student information**

* Administration staff can update :
  + - Full name
    - Address
    - Phone number
* 1.2.1 in case of incorrect or incomplete information “show unvalid data”

Send email to student to correct your information

* 1.2.2 in case of correct information Show Success operation

**2. Courses Details :**

* 1. **Display courses information**

if students click on (display courses details ) , it will show them all current details (current courses, Subsequent courses, the numbers oh hours of each course, name of each course).

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**3. Student personal details :**

* 1. **Display student information**

if students click on (display current details ) , it will show them all current details (current courses, current GPA, current level), full name and ID.

* 1. **Display student information**

If students click on (display personal details), it will show them their full name, level, ID, address and phone number

**3.3 case report**

If students click on (display student information) , it will show them their information about all list of courses (course name, grades, GPA) in all levels that they toke and full name, level and ID

**4. Administration staff operations**

This operation has 5 tasks that can be done with the administrator only

The admin-user should enter the information of the staff and make for each user an individual username and password. Also there is another function that is done by only the admin user that is the updating of the staff user information.

**Then there are some operations that can be done by those users such as:**

* *3.1 staff signing in*
* *3.2 Add courses*
* *3.3 Helping student about which courses is available for him/her*
* *3.4 Registration of courses for students*
* *3.5 Insert the students’ degrees*
* *3.6 Calculate the student GPA*

**4.1 - signing in**

Before any staff member can access the app, the app asks him to enter his name and password that is previously chosen by admin for each staff member, after entering them the app should valid them if they are valid the app is opened with the interface that is specialized for this user, if it’s invalid the system returns an **“Error message”.**

**4.2 - Add courses**

When a member of staff wants to add a course to the system he must first open the app then choose **(“Add courses”)** then the application should connect to the previously-added courses then it should ask the user to enter the information that is needed to add this course like (course name, credit hours, doctors that teach this course, the level in which it should be taught), then after entering these data the app should assure that this course is not previously-added, but if so the system should tell the user that this course is already added.

**4.3 - Available courses for a student**

When a student wants to know about the courses that is available to him/her, he should ask the staff member that manages this student account to help him/her, then the staff member should choose **(“Available courses for a student”)**, then he asks the student for his/her name, then enter this name in the input box, then the system should valid the entered name?? If it’s found on the students’ names so the app should return for the user the available courses, if not then the app should return an **“Error message”**.

**4.4 - Student registration**

When a student wants to register his term courses he should ask the staff member that manages his account to help him/her, first the user should choose **(“Student registration”)**, then he asks the student for his/her name, then enter this name in the input box, then the system should valid the entered name?? If it not found then the app should return an **“Error message”**, but if it’s found, then the app should open the registration page which have a list of the available courses for this student, then the student chooses the desired courses that he/she wants to enroll in.

**4.5 - Insert the students’ degrees**

When the user chooses **(“Insert Term Degrees”)** then the app should ask him to enter which level students he want to insert degrees in, after the app gets the response from the user it should open a table which contains all the students of this level (rows) and the courses for each students (columns) then the user should assign the degrees of each student in this table then he can choose **(“print and save”)** if he wants to print and save this table, or he can choose **(“save and exit”)** if he wants to save without printing the table.

**4.6 - Calculate the student GPA**

Task 3.6 is a subtask from task 3.5, as each student should have a GPA that is calculated according to his degrees in each course from the assigned degrees by the user and a column called student GPA is added after the user finishes assigning the degrees of each student.