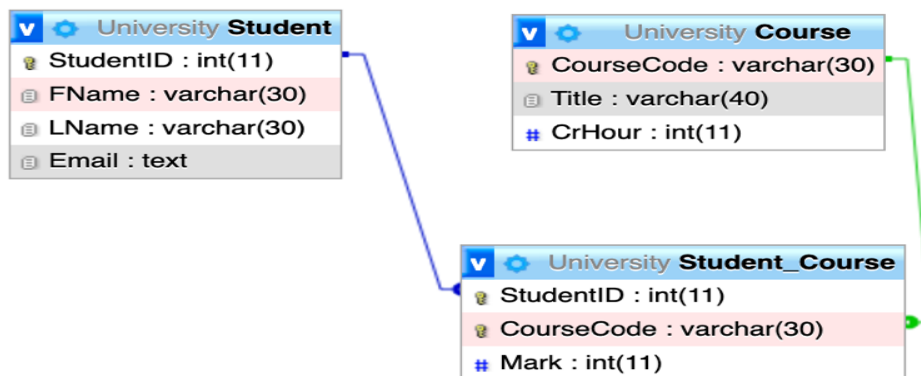




Sheet 4

Objective: upon successful completion of this sheet, students should be familiar with Database connectivity in PHP and able to perform CRUD operations on Databases using PDO.

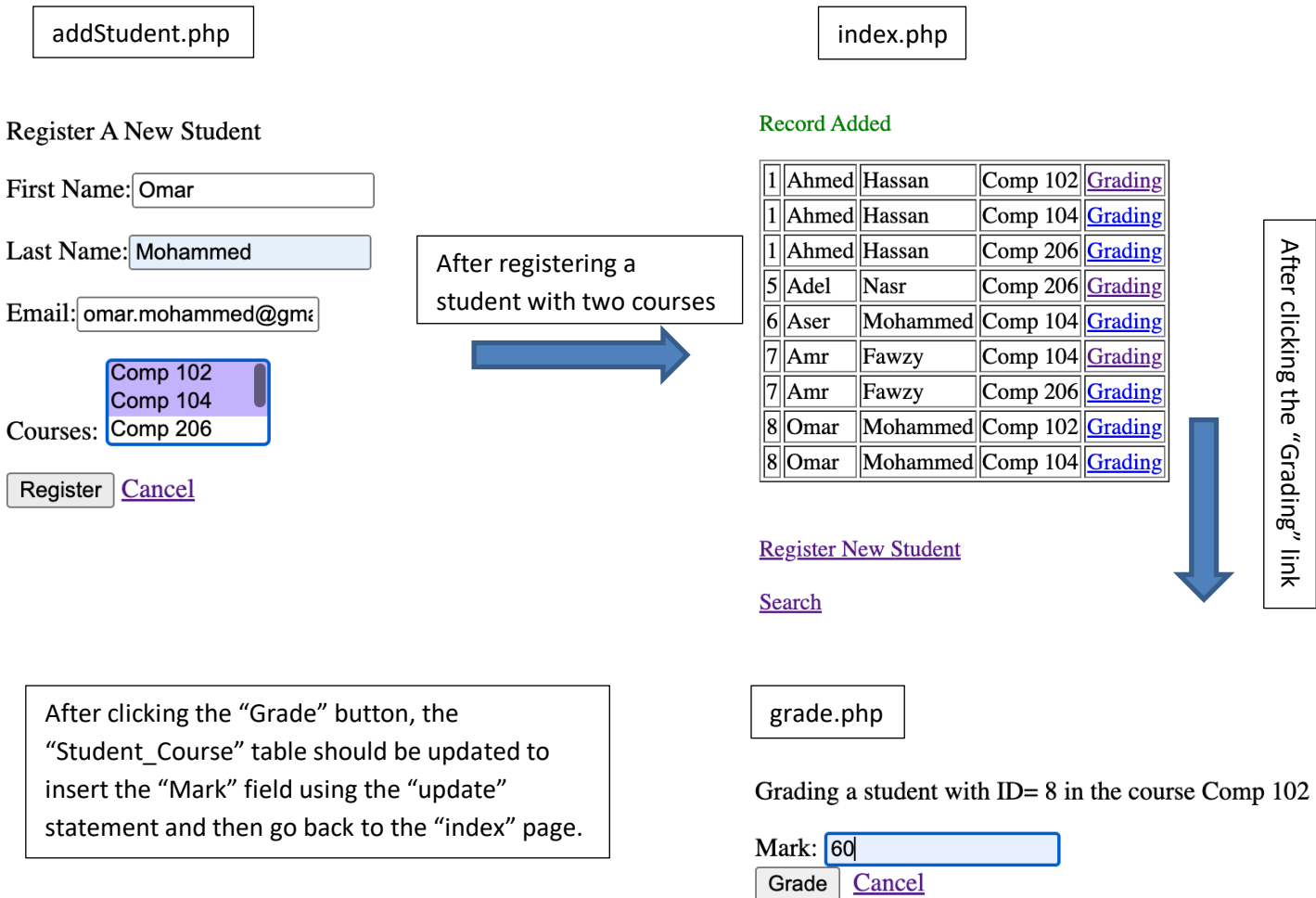
Use PHPMyAdmin to build a database named “University”, which contain the following tables:



Then, create a PHP script file to perform each of the following using the appropriate form controls to add, update, delete, and search for students' data:

1. Connect to the database.
2. Insert a new student's data.
3. Update a student's data, for example entering marks for different courses.
4. Delete a student's data.
5. Search for a specific information, such as finding students enrolled in certain courses, finding students with a mark greater than or equal to 80 in some specific courses, and getting the number of credits for some courses. The output should be displayed in a tabular form.

Here are some figures to show the structure of forms used for performing some of the above-mentioned tasks.



Note that:

- At first, you should add some courses with their required information in the “Course” table.
- The “Student” and “Student_Course” tables are related through the “StudentID” field. To enter the course’s data in the “Student_Course” table after inserting the student’s data, you need to keep track the last entered id of the student. This can be done using the “lastInsertId ()” function in the PDO object.
- To select multiple choices in the dropdown list, you have to use the property “multiple” and the “name” attribute of the form element has to be represented as an array.
- One of the SQL statements that can be used to select data from multiple related tables is:
SELECT column-name1 [, column-name2] ...
FROM table-name1
INNER JOIN table-name2
ON table-name1.column-name=table-name2.column-name
WHERE ...