

CSCI 4000 Assignment 5

Total estimated time for this assignment: **12 hours** (if you are a good programmer)

The main purpose of this assignments is to apply and implement **MVC** (Model-view-controller) software architectural pattern. It is a continuation of the last assignment (assignment 4). You can copy your code from the last assignment (provided your code is correct and working). If you do not use MVC pattern, you will receive **0 points** for almost all the questions. The description for each question includes images of how the page should appear in a browser, along with specifications.

The main programming language for this assignment should be **PHP** (mixed with HTML and CSS). If you do not use **PHP**, you will get **0 points**. For this assignment, you must use **PDO** (PHP Data Object) to interface with the MySQL database. If you do not use PDO, you will receive 0 points for almost all questions.

When you see “Richard Ricardo” or “richardricardo” in the examples and screen captures, change it to **<your name>**.

When you see “Richard” or “richard” in the example screen captures, change it to **<your first name>**.

If you do not put **<your name>** / **<your first name>** in the above mentioned fields, you will get **0 points** for the question(s).

No two students should submit webpages with exactly the same code, content, layout, or color combination. If found, **both** students will get **0 points**.

Create a folder on your hard disk, name the folder **lastname_firstname_assignment5**. Save all the files from this assignment in this folder.

Use XAMPP web server solution stack package to help debugging PHP code. It will make your debugging process easier. All php files must not produce any error, or any warning (**-2 points for each error, each warning**). Your program must run. A program that does not run will get at most **50% of the possible points**. All files must begin with a **comment** that identifies the author, the course code, and the program date (**- 2 points each question** if found missing). All html, css and php files must be clearly **documented (commented)**. Points will be taken off (**-2 points each question**) for insufficient comments (`<!-- -->`, `/* */`, `//`).

- Before adding PHP code, all html files must pass html validation at <http://validator.w3.org/> without any **error** (and with only 1 warning).
- When you view page source in a web browser, **<!DOCTYPE html>** must be at the top of every page. In other words, all pages must be written in HTML5. (**-20 points** if not)
 - You **can** put php code before **<!DOCTYPE html>**.
 - You **cannot** put html code before **<!DOCTYPE html>**.
- All css files must pass css validation at <http://jigsaw.w3.org/css-validator/> without any **error**. (**-2 points for each error/warning**, only 1 warning is allowed for html validator)

Question 1 – MVC: PHP Chapter 5, eg010 step 1 (20 points)**Estimated time: 2 hours**

- In this question you need to
 - Setup MVC folders
 - Re-create the database if necessary
 - Create a database connection file
 - Create a common header file
 - Create a common footer file
 - Create a database error view file (using common header file and common footer file)
 - Create the first php library file for retrieving data from the database (major table)
- Re-load **create_db.sql** in XAMPP > phpMyAdmin again (if necessary) to re-create the database mentioned in the last Assignment. (1 point)
- Save question 1 files in subfolder “**lastname_firstname_assignment5\q1**”:
 - create the following subfolders in this folder: (4 points)
 - **lastname_firstname_assignment5\q1\errors**
 - **lastname_firstname_assignment5\q1\model**
 - **lastname_firstname_assignment5\q1\student_manager**
 - **lastname_firstname_assignment5\q1\view**
- Reuse the text file **create_db.sql**, created in the last Assignment, Q1. Copy the text file to folder **lastname_firstname_assignment5**. (1 point)
 - Note: In the real world, do NOT put sql files in a website folder. Keep it offline and safe.
- You may reuse the **main.css** file from the last Assignment, Q2. Copy the css file to folder **lastname_firstname_assignment5**. (1 point)
- Create file **richard_ricardo_database.php** in folder **lastname_firstname_assignment5\q1\model** (2 points)
 - Hence: **lastname_firstname_assignment5\q1\model\richard_ricardo_database.php**
 - Use this file to connect to the database
 - If there is any connect error, redirect to **lastname_firstname_assignment5\q1\errors\richard_ricardo_database_error.php**
- Split the original **richard_ricardo_database_error.php** (from last Assignment, Q2) into 3 files (and edit code) (3 points)
 - **lastname_firstname_assignment5\q1\view\richard_ricardo_header.php**
 - common header for all view files
 - link to main.css
 - **lastname_firstname_assignment5\q1\view\richard_ricardo_footer.php**
 - common footer for all view files
 - **lastname_firstname_assignment5\q1\errors\richard_ricardo_database_error.php**
 - it should display database connection error message
 - it should “include” **richard_ricardo_header.php** file
 - it should “include” **richard_ricardo_footer.php** file
- Create file **richard_ricardo_major_db.php** in folder **lastname_firstname_assignment5\q1\model** (2 points)
 - Hence: **lastname_firstname_assignment5\q1\model\richard_ricardo_major_db.php**
 - Create this php function in the file
 - ```
function get_major_name($major_id) { return $major_name; }
```
  - This function should take in a major id and return the major name, by querying the database
- Create controller file **index.php** in folder **lastname\_firstname\_assignment5\q1\student\_manager\** (6 points)
  - Hence: **lastname\_firstname\_assignment5\q1\student\_manager\index.php**
  - “Require” the following two files:
    - **/model/richard\_ricardo\_database.php**
    - **/model/richard\_ricardo\_major\_db.php**
  - Create controller code to handle if `$action == 'list_students'` (first time access)

- List \$major\_id as “1”, and \$major\_name as “Computer Science”, for testing only
- Files created/updated in this question:
  - lastname\_firstname\_assignment5\q1\errors\richard\_ricardo\_database\_error.php
  - lastname\_firstname\_assignment5\q1\model\richard\_ricardo\_database.php
  - lastname\_firstname\_assignment5\q1\model\richard\_ricardo\_major\_db.php
  - lastname\_firstname\_assignment5\q1\student\_manager\index.php
  - lastname\_firstname\_assignment5\q1\view\richard\_ricardo\_footer.php
  - lastname\_firstname\_assignment5\q1\view\richard\_ricardo\_header.php

Example: “richard\_ricardo\_student\_db” database and the tables (same as last assignment)

The screenshot shows the phpMyAdmin interface for the database 'richard\_ricardo\_student\_db'. The left sidebar shows the database structure with 'major' and 'student' tables. The main panel displays the 'Structure' tab for the database, showing two tables: 'major' and 'student'. The 'major' table has 3 rows, InnoDB engine, latin1\_swedish\_ci collation, and a size of 16 KiB. The 'student' table has 5 rows, InnoDB engine, latin1\_swedish\_ci collation, and a size of 32 KiB. The summary shows 2 tables, 12 rows, and a total size of 48 KiB. Below the table list, there is a 'Create table' section with a 'Name' field and a 'Number of columns' dropdown set to 4.

Example: “major” table structure (same as last assignment)

The screenshot shows the phpMyAdmin interface for the 'major' table in the 'richard\_ricardo\_student\_db' database. The left sidebar shows the database structure with 'major' and 'student' tables. The main panel displays the 'Structure' tab for the table, showing two columns: 'majorID' (int(11), primary key, AUTO\_INCREMENT) and 'majorName' (varchar(255), latin1\_swedish\_ci). Below the column list, there is a section for 'Indexes' with a table showing space usage and row statistics.

| Space usage |        | Row statistics |                          |
|-------------|--------|----------------|--------------------------|
| Data        | 16 KiB | Format         | Compact                  |
| Index       | 0 B    | Collation      | latin1_swedish_ci        |
| Total       | 16 KiB | Next autoindex | 4                        |
|             |        | Creation       | Sep 16, 2014 at 10:41 PM |

Example: “student” table structure (same as last assignment)

The screenshot shows the phpMyAdmin interface for the 'richard\_ricardo\_student\_db' database. The 'student' table structure is displayed with the following columns:

| # | Name      | Type         | Collation         | Attributes | Null | Default | Extra          | Action                   |
|---|-----------|--------------|-------------------|------------|------|---------|----------------|--------------------------|
| 1 | studentID | int(11)      |                   |            | No   | None    | AUTO_INCREMENT | Change Drop Primary More |
| 2 | majorID   | int(11)      |                   |            | No   | None    |                | Change Drop Primary More |
| 3 | firstName | varchar(255) | latin1_swedish_ci |            | No   | None    |                | Change Drop Primary More |
| 4 | lastName  | varchar(255) | latin1_swedish_ci |            | No   | None    |                | Change Drop Primary More |
| 5 | gender    | char(1)      | latin1_swedish_ci |            | No   | None    |                | Change Drop Primary More |

Below the table structure, the 'Information' tab is selected, showing space usage and row statistics:

| Space usage |        | Row statistics |                          |
|-------------|--------|----------------|--------------------------|
| Data        | 16 KiB | Format         | Compact                  |
| Index       | 16 KiB | Collation      | latin1_swedish_ci        |
| Total       | 32 KiB | Next autoindex | 12                       |
|             |        | Creation       | Sep 16, 2014 at 10:41 PM |

Example: records in “major” table (same as last assignment)

The screenshot shows the phpMyAdmin interface for the 'richard\_ricardo\_student\_db' database. The 'major' table records are displayed. A message at the top indicates: "Showing rows 0 - 2 (3 total, Query took 0.0005 seconds.)". The SQL query shown is 'SELECT \* FROM `major`'. Below the query, the table data is displayed:

|                                                                                             | majorID | majorName              |
|---------------------------------------------------------------------------------------------|---------|------------------------|
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 1       | Computer Science       |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 2       | Electrical Engineering |
| <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete | 3       | Business               |

Example: “records” in student table (same as last assignment)

The screenshot shows the phpMyAdmin interface. The left sidebar displays the database structure, with 'richard\_ricardo\_student\_db' selected and the 'student' table highlighted. The main panel shows the 'student' table with 11 records. The table has columns: studentID, majorID, firstName, lastName, and gender. The records are as follows:

| studentID | majorID | firstName | lastName | gender |
|-----------|---------|-----------|----------|--------|
| 1         | 1       | PO        | BLACK    | M      |
| 2         | 1       | SHIFU     | HOFFMAN  | M      |
| 3         | 1       | TIGRESS   | JOLIE    | F      |
| 4         | 1       | JENNIFER  | YUH      | F      |
| 6         | 2       | MONKEY    | CHAN     | M      |
| 8         | 2       | MANTIS    | ROGEN    | M      |
| 9         | 3       | CRANE     | CROSS    | M      |
| 10        | 3       | OOGWAY    | KIM      | M      |
| 11        | 3       | PING      | HONG     | M      |

Example: data privileges for user **richardricardo1** (same as last assignment)

The screenshot shows the 'Edit Privileges' page for user 'richardricardo1'@'localhost'. The 'Database-specific privileges' tab is active. The table below shows the privileges granted to the user:

| Database                   | Privileges                     | Grant | Table-specific privileges | Action                  |
|----------------------------|--------------------------------|-------|---------------------------|-------------------------|
| richard_ricardo_student_db | SELECT, INSERT, UPDATE, DELETE | No    | No                        | Edit Privileges, Revoke |

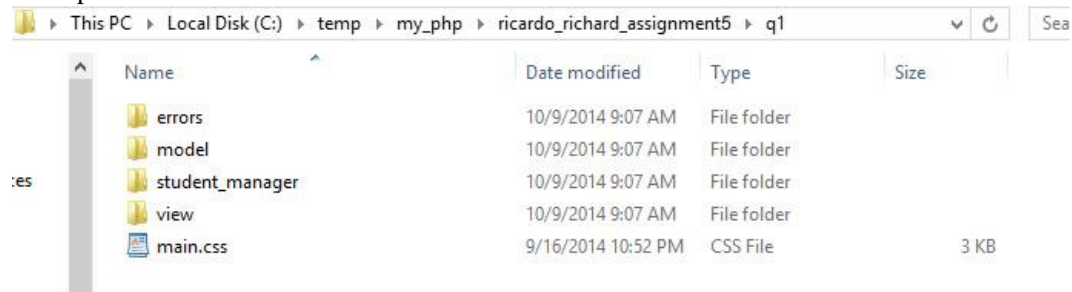
Below the table, there is a section to 'Add privileges on the following database:' with a dropdown menu set to 'Use textfield:' and an empty input field.

Example: folder/file structure

The screenshot shows a Windows File Explorer window with the path 'This PC > Local Disk (C:) > temp > my\_php > ricardo\_richard\_assignment5'. The contents of the folder are as follows:

| Name          | Date modified      | Type                  | Size |
|---------------|--------------------|-----------------------|------|
| q1            | 10/9/2014 9:07 AM  | File folder           |      |
| q2            | 10/9/2014 9:07 AM  | File folder           |      |
| q3            | 10/9/2014 9:07 AM  | File folder           |      |
| q4            | 10/9/2014 9:07 AM  | File folder           |      |
| q5            | 10/9/2014 9:07 AM  | File folder           |      |
| create_db.sql | 9/16/2014 10:40 PM | DbVisualizer SQL f... | 2 KB |

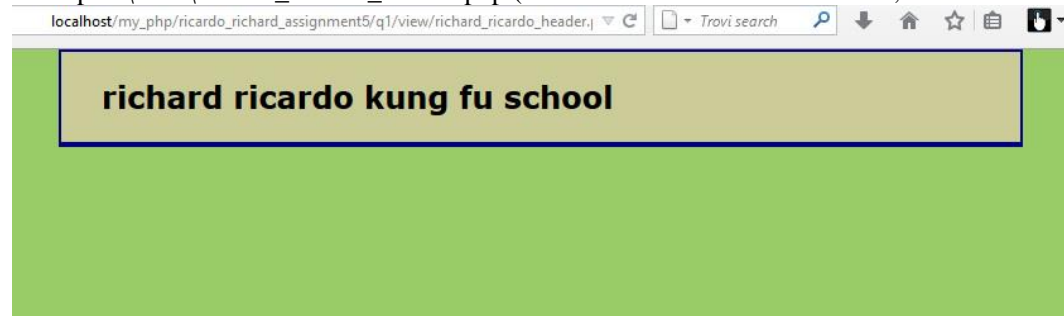
Example: folder/file structure



Example: \model\richard\_ricardo\_database.php (shows nothing, only has php code)



Example: \view\richard\_ricardo\_header.php (common header for all view files, link to main.css)

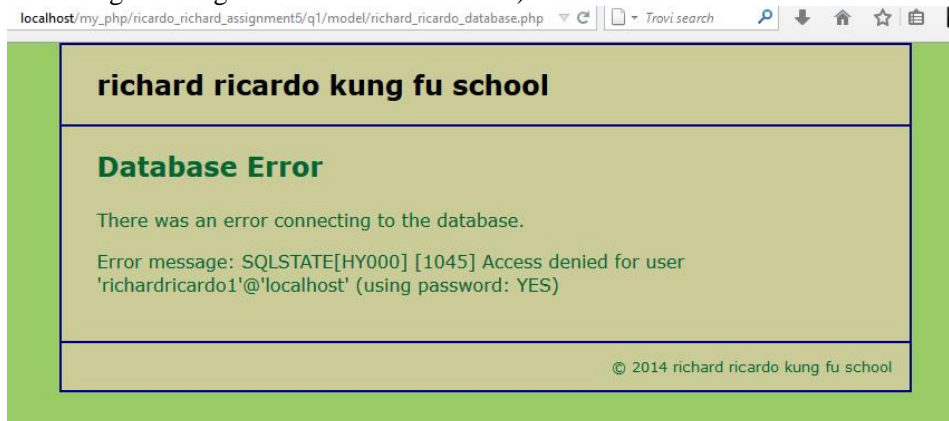


Example: \view\richard\_ricardo\_footer.php (common footer for all view files)

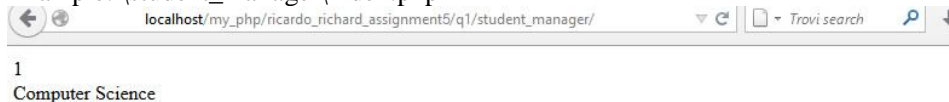




Example: \model\richard\_ricardo\_database.php (it shows \errors\richard\_ricardo\_database\_error.php, if something is wrong with database connection)



Example: \student\_manager\index.php



## Question 2 – MVC: PHP Chapter 5, eg010 step 2 (20 points)

**Estimated time: 2 hours**

- In this question you need to
  - Create model functions to retrieve major records and student records from the database
  - Update controller code to list students
  - Create code to display students (using common header file and footer file)
- Copy what you have done in question 1 (all folders/files) from the question 1 subfolder to the question 2 subfolder “**lastname\_firstname\_assignment5\q2\**”.
- Save question 2 files in subfolder “**lastname\_firstname\_assignment5\q2\**”:
  - Add files to / editing existing files in the subfolders:
    - **lastname\_firstname\_assignment5\q2\errors\**
    - **lastname\_firstname\_assignment5\q2\model\**
    - **lastname\_firstname\_assignment5\q2\student\_manager\**
    - **lastname\_firstname\_assignment5\q2\view\**
- Update file **lastname\_firstname\_assignment5\q2\model\richard\_ricardo\_major\_db.php** (4 points)
  - Create this php function in the file
    - `function get_majors() { return $majors; }`
  - This function should return all major names sorted by majorID, by querying the database
- Create file **richard\_ricardo\_student\_db.php** in folder **lastname\_firstname\_assignment5\q2\model\** (4 points)
  - Hence: **lastname\_firstname\_assignment5\q2\model\richard\_ricardo\_student\_db.php**
  - Create this php function in the file
    - `function get_students_by_major($major_id){return $students;}`
  - This function should return all student names sorted by studentID, in a particular major (take in a particular majorID), by querying the database
- Update file **lastname\_firstname\_assignment5\q2\student\_manager\index.php** (6 points)
  - “Require” the following additional file:

- /model/richard\_ricardo\_student.php
  - Update controller code to handle if `$action == 'list_students'` (first time access)
  - Retrieve all students' records by using some functions in
    - model\richard\_ricardo\_student\_db.php
    - model\richard\_ricardo\_major\_db.php
  - “Include” a new file **richard\_ricardo\_student\_list.php** to display all students
- Create file **richard\_ricardo\_student\_list.php** in folder **lastname\_firstname\_assignment5\q2\student\_manager\** (6 points)
  - Hence: lastname\_firstname\_assignment5\q2\student\_manager\**richard\_ricardo\_student\_list.php**
  - This file is related to the index.php from the last assignment
  - It should “include” richard\_ricardo\_header.php file
  - It should “include” richard\_ricardo\_footer.php file
  - It should display all students by a major
- Files created/updated in this question:
  - lastname\_firstname\_assignment5\q2\model\richard\_ricardo\_major\_db.php
  - lastname\_firstname\_assignment5\q2\model\richard\_ricardo\_student\_db.php
  - lastname\_firstname\_assignment5\q2\student\_manager\index.php
  - lastname\_firstname\_assignment5\q2\student\_manager\richard\_ricardo\_student\_list.php

Example: \student\_manager\index.php (first major is selected/clicked)

localhost/my\_php/richard\_ricardo\_assignment5/q2/student\_manager/

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### Student List

**Majors**

[Computer Science](#)

[Electrical Engineering](#)

[Business](#)

### Computer Science

| Student ID | First Name | Last Name | Gender |                        |
|------------|------------|-----------|--------|------------------------|
| 1          | PO         | BLACK     | M      | <a href="#">Delete</a> |
| 2          | SHIFU      | HOFFMAN   | M      | <a href="#">Delete</a> |
| 3          | TIGRESS    | JOLIE     | F      | <a href="#">Delete</a> |
| 4          | JENNIFER   | YUH       | F      | <a href="#">Delete</a> |
| 5          | OX         | STORMING  | M      | <a href="#">Delete</a> |

[Add Student](#)

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Example: \student\_manager\index.php (second major is selected/clicked)

localhost/my\_php/ricardo\_richard\_assignment5/q2/student\_manager/?major\_id: ▼ Tíoví search

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### Student List

**Majors**

[Computer Science](#)

[Electrical Engineering](#)

[Business](#)

**Electrical Engineering**

| Student ID | First Name | Last Name | Gender |        |
|------------|------------|-----------|--------|--------|
| 6          | MONKEY     | CHAN      | M      | Delete |
| 7          | VIPER      | LIU       | F      | Delete |
| 8          | MANTIS     | ROGEN     | M      | Delete |

[Add Student](#)

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Example: \student\_manager\index.php (third major is selected/clicked)

localhost/my\_php/ricardo\_richard\_assignment5/q2/student\_manager/?major\_id: ▼ Tíoví search

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### Student List

**Majors**

[Computer Science](#)

[Electrical Engineering](#)

[Business](#)

**Business**

| Student ID | First Name | Last Name | Gender |        |
|------------|------------|-----------|--------|--------|
| 9          | CRANE      | CROSS     | M      | Delete |
| 10         | OOGWAY     | KIM       | M      | Delete |
| 11         | PING       | HONG      | M      | Delete |

[Add Student](#)

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**Question 3 – MVC: PHP Chapter 5, eg010 step 3 (20 points)****Estimated time: 2 hours**

- In this question you need to
  - Create model function to delete a student record from the database
  - Update controller code to handle student record deletion
- Copy what you have done in question 2 (all folders/files) from the question 2 subfolder to the question 3 subfolder “**lastname\_firstname\_assignment5\q3**”.
- Save question 3 files in subfolder “**lastname\_firstname\_assignment5\q3**”:
  - Add files to / editing existing files in the subfolders:
    - lastname\_firstname\_assignment5\q3\errors\**
    - lastname\_firstname\_assignment5\q3\model\**
    - lastname\_firstname\_assignment5\q3\student\_manager\**
    - lastname\_firstname\_assignment5\q3\view\**
- Update file **lastname\_firstname\_assignment5\q3\student\_manager\index.php** (10 points)
  - Update controller code to handle if `$action == 'delete_student'`
  - Delete a student's record by using function `delete_student` in
    - `model\richard_ricardo_student_db.php` (to be created next)
- Update file **lastname\_firstname\_assignment5\q3\model\richard\_ricardo\_student\_db.php** (10 points)
  - Create php function in the file
    - `function delete_student($student_id){}`
    - This function should delete a student record by taking in the student ID, by updating the database
    - This function should be called by `index.php`
- Files created/updated in this question:
  - `lastname_firstname_assignment5\q3\model\richard_ricardo_student_db.php`
  - `lastname_firstname_assignment5\q3\student_manager\index.php`

Example: `\student_manager\index.php` (before deletion, click on the delete button on Student ID 5)

localhost/my\_php/ricardo\_richard\_assignment5/q3/student\_manager/

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### Student List

**Majors**

[Computer Science](#)

[Electrical Engineering](#)

[Business](#)

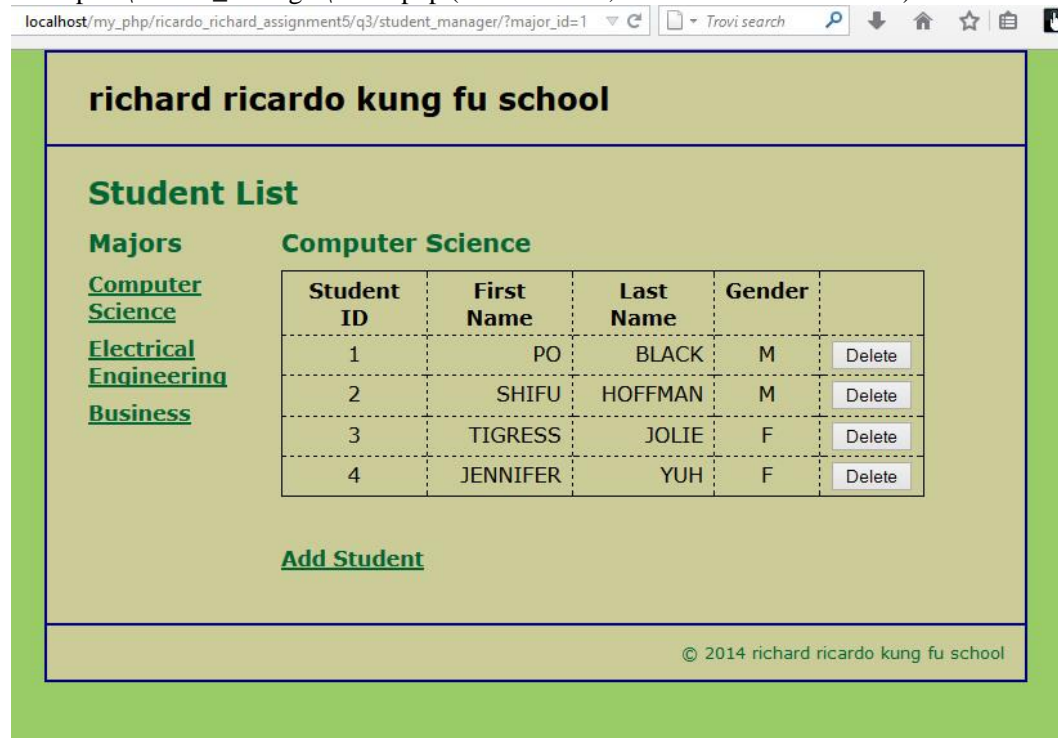
**Computer Science**

| Student ID | First Name | Last Name | Gender |                        |
|------------|------------|-----------|--------|------------------------|
| 1          | PO         | BLACK     | M      | <a href="#">Delete</a> |
| 2          | SHIFU      | HOFFMAN   | M      | <a href="#">Delete</a> |
| 3          | TIGRESS    | JOLIE     | F      | <a href="#">Delete</a> |
| 4          | JENNIFER   | YUH       | F      | <a href="#">Delete</a> |
| 5          | OX         | STORMING  | M      | <a href="#">Delete</a> |

[Add Student](#)

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Example: \student\_manager\index.php (after deletion, Student ID 5 was deleted)



**Question 4 – MVC: PHP Chapter 5, eg010 step 4 (20 points)**

**Estimated time: 2 hours**

- In this question you need to
  - Update controller code to add a student
  - Create code to display a form to allow adding a student (using common header file and footer file)
- Copy what you have done in question 3 (all folders/files) from the question 3 subfolder to the question 4 subfolder "lastname\_firstname\_assignment5\q4\".
- Save question 4 files in subfolder "lastname\_firstname\_assignment5\q4\":
  - Add files to / editing existing files in the subfolders:
    - lastname\_firstname\_assignment5\q4\errors\
    - lastname\_firstname\_assignment5\q4\model\
    - lastname\_firstname\_assignment5\q4\student\_manager\
    - lastname\_firstname\_assignment5\q4\view\
- Update file lastname\_firstname\_assignment5\q4\student\_manager\index.php (10 points)
  - Update controller code to handle if \$action == 'show\_add\_form'
  - Retrieve all majors' records by using a function in
    - model\richard\_ricardo\_major\_db.php
    - The records will be used to create dropdown list in the next step
  - "Include" a new file richard\_ricardo\_student\_add.php to display a form to add student
- Create file richard\_ricardo\_student\_add.php in folder lastname\_firstname\_assignment5\q4\student\_manager\ (10 points)
  - Hence: lastname\_firstname\_assignment5\q4\student\_manager\richard\_ricardo\_student\_add.php
  - This file is related to the richard\_ricardo\_add\_student\_form.php from the last assignment
  - It should "include" richard\_ricardo\_header.php file
  - It should "include" richard\_ricardo\_footer.php file
  - It should display a form to allow users to add a student

- Files created/updated in this question:
  - lastname\_firstname\_assignment5\q4\student\_manager\index.php
  - lastname\_firstname\_assignment5\q4\student\_manager\richard\_ricardo\_student\_add.php

Example: \student\_manager\index.php (it actually shows/"include" richard\_ricardo\_student\_add.php)

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### Add Student

Major:

First Name:

Last Name:

Gender:

[View All Students](#)

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Example: \student\_manager\index.php (dropdown list shows all majors)

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### Add Student

Major:

First Name:

Last Name:

Gender:

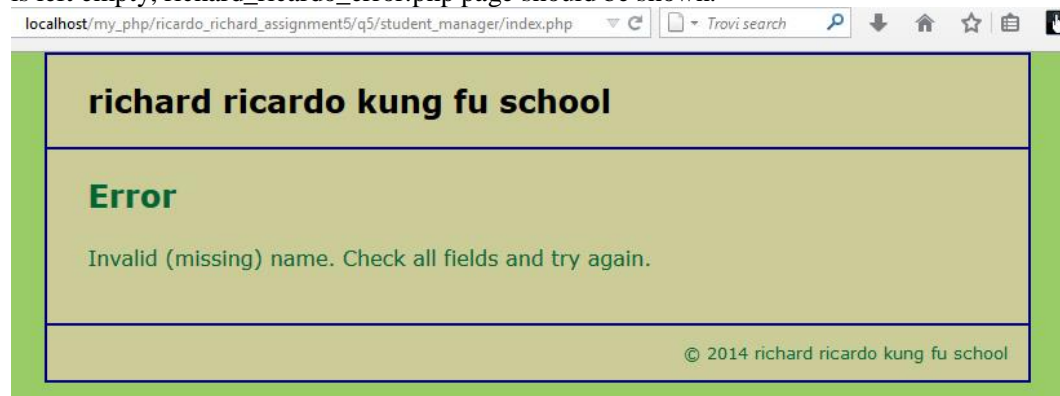
[View All Students](#)

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**Question 5 – MVC: PHP Chapter 5, eg010 step 5 (20 points)****Estimated time: 2 hours**

- In this question you need to
  - Update controller code to add a student
  - Check if user filled in all form fields
  - Create code to display error message (using common header file and footer file) if any form field is left empty
  - Update model code to add a student
- Copy what you have done in question 4 (all folders/files) from the question 4 subfolder to the question 5 subfolder “**lastname\_firstname\_assignment5\q5\**”.
- Save question 5 files in subfolder “**lastname\_firstname\_assignment5\q5\**”:
  - Add files to / editing existing files in the subfolders:
    - lastname\_firstname\_assignment5\q5\errors\**
    - lastname\_firstname\_assignment5\q5\model\**
    - lastname\_firstname\_assignment5\q5\student\_manager\**
    - lastname\_firstname\_assignment5\q5\view\**
- Update file **lastname\_firstname\_assignment5\q5\student\_manager\index.php** (7 points)
  - Update controller code to handle if `$action == 'add_student'`
  - Retrieve all forms filed passed from **richard\_ricardo\_student\_add.php** (last question)
    - If any form field is empty, create error message and “include” a new file **\errors\richard\_ricardo\_error.php** to display error message
    - If all form fields are filled, call function `add_student` in
      - model\richard\_ricardo\_student\_db.php** (to be created next)
- Create file **richard\_ricardo\_error.php** in folder **lastname\_firstname\_assignment5\q5\errors\** (6 points)
  - Hence: **lastname\_firstname\_assignment5\q5\errors\ richard\_ricardo\_error.php**
  - This file is related to the **richard\_ricardo\_error.php** from the last assignment
  - It should “include” **richard\_ricardo\_header.php** file
  - It should “include” **richard\_ricardo\_footer.php** file
  - It should display an error message from **index.php**
- Update file **lastname\_firstname\_assignment5\q5\ model\richard\_ricardo\_student\_db.php** (7 points)
  - Create this php function in the file
    - `function add_student($major_id, $firstname, $lastname, $gender) {}`
    - This function should add a student record by taking in the above arguments, and by updating the database
  - This function should be called by **index.php**

Example: **\student\_manager\index.php** (it actually shows/”include” **richard\_ricardo\_error.php**): If any textbox is left empty, **richard\_ricardo\_error.php** page should be shown.



Example: \student\_manager\index.php (it actually shows/"include" richard\_ricardo\_student\_add.php): user input

**richard ricardo kung fu school**

### Add Student

Major:

First Name:

Last Name:

Gender:

[View All Students](#)

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Example: \student\_manager\index.php: after successfully adding a student record

**richard ricardo kung fu school**

### Student List

**Majors**

[Computer Science](#)

[Electrical Engineering](#)

[Business](#)

**Computer Science**

| Student ID | First Name | Last Name | Gender |                                       |
|------------|------------|-----------|--------|---------------------------------------|
| 1          | PO         | BLACK     | M      | <input type="button" value="Delete"/> |
| 2          | SHIFU      | HOFFMAN   | M      | <input type="button" value="Delete"/> |
| 3          | TIGRESS    | JOLIE     | F      | <input type="button" value="Delete"/> |
| 4          | JENNIFER   | YUH       | F      | <input type="button" value="Delete"/> |
| 12         | JENNY      | CHAN      | F      | <input type="button" value="Delete"/> |

[Add Student](#)

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**Important:**

1. If you do not put **<your name> / <your first name>** in the above mentioned fields (as shown in the examples), you will get **0 points** for the question(s).
2. **No two students** should submit webpages with exactly the same code, content, layout, or color combination. If found, both students will get **0 points**.
3. Before adding PHP code, all html files must pass html validation at <http://validator.w3.org/> without any **error** (and with only 1 warning). Use the validator's "File Upload" tab to check each file.
  - a. If you want to validate a PHP file after adding PHP code, you can temporarily rename the \*.php file to \*.htm file.
  - b. When you view page source in a web browser, **<!DOCTYPE html>** must be at the top of every page. In other words, all pages must be written in HTML5. (**-20 points** if not)
  - c. If any html error is found, 2 points will be deducted for each error. Please validate the files before adding PHP code.
4. All css files must pass css validation at <http://jigsaw.w3.org/css-validator/> without any **error**.
5. If your files do not pass the html and css validations, **2 points will be deducted for each html or css error** found (no deduction for php error at html validation).
6. Document (comment) your HTML files (**<!-- -->**), CSS files (**/\* \*/**), and PHP files (**/\* \*/ OR //**). **Points will be taken off** for insufficient comments (**<!-- -->, /\* \*/, //**).

**Submission instructions:**

- You need to test all document(s).
- Do screen capture(s) of the **input** and the related **output(s)**. Use any graphic editing software (e.g. Microsoft Paint, Adobe Fireworks, GIMP, or Microsoft Expression Design etc) to cut out the browser output (from the screen capture), paste them into a word document.
- Provide **2 different test cases** for each question. In other words, for **each question**, you may need to have **2 input** screen captures and **2 related output** screen captures.
- Do NOT need to do screen capture(s) of html validation results and css validation results for this assignment.
- Save the word document as a pdf file.

You need to submit the following:

1. A pdf file containing the screen capture(s) of the web browser input and output pages, name the file **lastname\_firstname\_assignment5.pdf**.
2. All html file(s), php file(s), css file(s), and other related files (e.g. image files). Zip your file folder (**lastname\_firstname\_assignment5**) into a single zip file (or rar file) **lastname\_firstname\_assignment5.zip**. In the above example, the zip file should contain the following files and subfolders. If there is any image, there should be a \images\ subfolder.

- lastname\_firstname\_assignment5\q1\\*. \* (all files created in question 1)
- lastname\_firstname\_assignment5\q2\\*. \* (all files created in question 1 & 2)
- lastname\_firstname\_assignment5\q3\\*. \* (all files created in question 1, 2 & 3)
- lastname\_firstname\_assignment5\q4\\*. \* (all files created in question 1, 2, 3 & 4)
- lastname\_firstname\_assignment5\q5\main.css
- lastname\_firstname\_assignment5\q5\errors\richard\_ricardo\_database\_error.php
- lastname\_firstname\_assignment5\q5\errors\richard\_ricardo\_error.php.php
- lastname\_firstname\_assignment5\q5\model\richard\_ricardo\_database.php
- lastname\_firstname\_assignment5\q5\model\richard\_ricardo\_major\_db.php
- lastname\_firstname\_assignment5\q5\model\richard\_ricardo\_student\_db.php
- lastname\_firstname\_assignment5\q5\student\_manager\index.php
- lastname\_firstname\_assignment5\q5\student\_manager\richard\_ricardo\_student\_add.php
- lastname\_firstname\_assignment5\q5\student\_manager\richard\_ricardo\_student\_list.php

- lastname\_firstname\_assignment5\q5\view\richard\_ricardo\_footer.php
- lastname\_firstname\_assignment5\q5\view\richard\_ricardo\_header.php

Please submit the above mentioned **two files** (.pdf and .zip) to D2L digital dropbox.

**Grading guidelines (programming questions):**

Your programs will be judged on several criteria, which are shown below.

- Correctness (50%): Does the program compile (run) correctly? Does the program do what it's supposed to do?
- Design (20%): Are operations broken down in a reasonable way (e.g. classes and methods)?
- Style (10%): Is the program **indented** properly? Do variables have **meaningful names**?
- Robustness (10%): Does the program handle erroneous or unexpected input gracefully?
- Documentation (10%): Do all program files begin with a **comment** that identifies the author, the course code, and the program date? Are all the classes, methods and data fields clearly **documented (commented)**? Are unclear parts of code **documented (commented)**? (Some items mentioned may not apply to some languages)

A program that does not compile (run) will get at most **50% of the possible points**.