CSCI 4000 Assignment 4

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

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.

Please change the provided example's layout and color combination (color scheme). If you use (copy) ANY of the provide example's color combination, 10 points will be deducted (-10 points).

Create a folder on your hard disk, name the folder **lastname_firstname_assignment4**. 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 (<!-->, /* */, //).

- 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>.
- Before adding PHP code, all html files must pass html validation at <u>http://validator.w3.org/</u> without any **error** (and with only 1 warning).
- After adding PHP code, the generated html code (Firefox web browser > right-click > view page source) must also pass html validation at <u>http://validator.w3.org/</u> without any **error** (and with only 1 warning).
- 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 – Database: PHP Chapter 4, eg009 and knowledge of SQL (20 points) Estimated time: 3 hours

- Save question 1 files in folder "lastname_firstname_assignment4": (2 points)
 create db.sql
 - Create a text file create db.sql, write sql statements in the file to
 - Create a MySQL database richard_ricardo_student_db. (2 points)
 - In the database, create 2 tables. (2 points)
 - major
 - student

- Create the following fields (columns) for the tables (refer to examples below for details).
 - major table: majorID, majorName (2 points)
 - student table: studentID, majorID, firstName, lastName, gender (2 points)
- Do foreign key referencing, to maintain referential integrity (3 points)
 - One student can only have one major.
 - One major can be used (enrolled) by many students.
 - majorID is the primary key of the major table.
 - studentID is the primary key of the student table.
 - majorID is a foreign key of the student table, for any values of majorID appearing in the student table, these values must also appear in the major table.
- Insert test records to major table and student table. (3 points)
- Create a MySQL database username **richardricardo1** with password **richardisgreat**, with data privileges (select, insert, update, delete) for the **richard_ricardo_student_db** database. (4 points)
- All above must be done by SQL statements in the text file create_db.sql. (0 points if not)
- Load create_db.sql in XAMPP > phpMyAdmin to create the above mentioned database.
- Note: In the real world, do NOT put sql files in a website folder. Keep it offline and safe.

Example: "richard ricardo student db" database and the tables

	M Structu	re 🔲 SQI	L 🔍 Search		Export	📑 Imp	art de	Operation	s 📑 Privileges	▼ M	oro
2 () () () () () () () () () (Ir Suucu		L Search	a duery	the Export	in mb	<i></i>	operation	s en rivileges	* 10	ore
ecent Favorites	Table	Action					Rows	Туре	Collation	Size	Overhea
cdcol	□ major	🔶 🥅 Bro	wse 🖌 Structure	Search 34	Insert 🚍 Em	anty 🥱 Dro		³ InnoDB	latin1 swedish ci	16 KiB	
information_schema	□ student		wse 🏹 Structure	-	101				latin1_swedish_ci	32 KiB	
kungfu_panda_shop			iwse M Structure	Ca Search 30	insen 🛲 Li		þ				
. mysql	2 tables	Sum						12 InnoDB	latin1_swedish_ci	KiB	
performance_schema phpmyadmin	<u>↑</u> □c	neck All	With selected:	~							
<pre>ichard_ricardo_student_db</pre>	Print view	Data Dictio	onary								
New		Data Dictio	onary								
→ New → Mew → Mew			onary								
→ New → Mew → Mew → Mew +			onary	Number of c	olumns: 4						
New			onary	Number of c	olumns: 4	¢.					
New Rajor Student Sample test			onary	Number of c	olumns: 4	÷.					
an richard_ricardo_student_db → New → Major → M student asample a test → webauth			onary	Number of c	olumns: 4	÷					Go

Example: "major" table structure

		-	-					
🟫 🗐 🔒 😣 💽 😨	Browse	Structure	📑 SQL 🔍 Sea	rch 📑 Insert 🗔	Export 🔤	Import .	Privileges	▼ More
cent Favorites	# Name	Туре (Collation Att	ributes Null Default	Extra	Action		
B New	1 majorID	int(11)		No None	AUTO_INCREM	/IENT 🥜 Chan	ge 🥥 Drop 🖞	
🗍 cdcol	2 majorNam	e varchar(255)	atin1 swedish ci	No None		🖉 Chan	ge 😂 Drop	
information_schema								
) kungfu_panda_shop	↑ Check	All With selec	ted: Browse	🥜 Change 🛛 🥥 Drop	o 🔑 Prima	ry 🔃 Uniqu	ie 🛛 🐖 Inde	x
Service at								
ji mysqi	A Print view	Relation view	Propose table stru	cture 💿 💿 Track t	able 🗈 Mov	e columns		
	🚔 Print view 🐗	Relation view	Propose table stru	cture 🔞 💿 Track t	able 🌓 Mov	e columns		
j performance_schema							Go	
) performance_schema) phpmyadmin	≩ ≢Add 1 🖨			cture 🔞 💿 Track t At Beginning of Table (Go	
performance_schema phpmyadmin							Go	
) performance_schema) phpmyadmin) richard_ricardo_student_db New	≩ ≢Add 1 🖨						Go	
performance_schema phpmyadmin richard_ricardo_student_db	≩réAdd 1 🔄 + Indexes						Go	
) performance_schema) phpmyadmin richard_ricardo_student_db New Mew Mew Mew Mew Mew	≩iAdd 1 € + Indexes						Go	
performance_schema phpmyadmin ichard_ricardo_student_db } New New New New New student sample	≩iAdd 1 € + Indexes	column(s) O		At Beginning of Table (Go	
performance_schema phpmyadmin ichard_ricardo_student_db } New % major % student sample test	∄-éAdd 1 € + Indexes	column(s) () a	At End of Table	At Beginning of Table (Compact		Go	
performance_schema phpmyadmin ichard_ricardo_student_db } New Nemaor New student sample test	aria Add 1 € + Indexes Information Spa Data	column(s) () ice usage ¹⁶ KiB	At End of Table	At Beginning of Table (Row statistics latin1_swe	Compact		Go	
<pre>mysql performance_schema phpmyadmin inchard_ricardo_student_db wajor wajor sample test webauth</pre>	≩ 4Add 1 € + Indexes Information Data Index	column(s) (e) column(s) (e) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) column(s) col	At End of Table O	At Beginning of Table (Row statistics latin1_swe	Compact edish_ci 4		Go	

php MyAdmin	← 🛒 Server: 127	1.0.0.1 » 📄 Da	tabase: richard	_ricardo_stud	ent_db »	🔥 Table	student						
<u>A 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </u>	Browse	Structure	SQL	Search	34 1	nsert	📑 Ехрог	t 📑 I	mport	Priv	ileges	▼	lore
Recent Favorites	# Name	Туре	Collation	Attribute	s Null	Default	Extra		Action				
New	1 <u>studentID</u>	int(11)			No	None	AUTO_INC	REMENT	🥜 Chan	nge 🥥 Dr	op 🔊 F	rimary	▼ More
L_ cdcol	2 majorID	int(11)			No	None			🥜 Char	ige 🥥 Dr	op 🔑 F	Primary	➡ More
l information_schema	3 firstName	varchar(255)	latin1_swedish	ı ci	No	None			Char	nge 🥥 Dr	op 🔑 F	rimary	▼ More
kungfu_panda_shop	-		- latin1_swedish	-	No	None				nge 🥥 Dr			
)–⊚ mysql)∟⊚ performance_schema	5 gender	char(1)	latin1 swedish			None			-	nge 🥥 Dr			
ichard_ricardo_student_db	Print view	Relation view	v 🛺 Propose	table structur	e 😡	Tra	ck table	Primary S Move c	olumns	ique 🤞			
New A major A student a sample a test	Print view de StaAdd 1 -		Propose At End of Ta			-	-	⊅ Move c		Go			
New Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior S	≩éAdd 1 ♦					-	-	⊅ Move c					
New A major A student a sample a test	≩éAdd 1 € + Indexes			able 🔾 At E		of Table	-	⊅ Move c					
New Major	≩éAdd 1 € + Indexes	column(s)	At End of Tr	able 🔾 At E	leginning	of Table	-	⊅ Move c studentIE					
New Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior Superior S	≩éAdd 1 € + Indexes	column(s)	At End of Ta	able () At E	leginning tow stati	of Table	⊖ After [to Move c studentIE					

Example: "student" table structure

Example: records in "major" table

e localhost/phpmyadm	iin/index.php?token=d0109e931f14364ce25c9a66c5e8b21b#PMAURL-6xsql.php? 🛡 C 🗋 🛛 🛪 Trovi search 🛛 👂 🗍 🏠 📋 🛐 🔻 🐞 🚍
php MyAdmin	🔶 🗊 Server: 127 0.0.1 » 🗊 Database: nchard_ncardo_student_db » 📷 Table: major 🧮
<u>A</u> 🗐 🔒 의 🗊 😋	Browse 📝 Structure 🗐 SQL 🔍 Search 👫 Insert 🖬 Export 🗐 Import 🖷 Privileges 🔻 More
Recent Favorites	
New	✓ Showing rows 0 - 2 (3 total, Query took 0.0005 seconds.)
e cdcol	
- information_schema	
H kungfu_panda_shop	SELECT * FROM 'major'
⊕ mysql	Profiling [Inline] [Edit] [Explain SQL] [Create PHP Code] [Refresh]
performance_schema	
phpmyadmin ichard ricardo student db	Number of rows: 25 V Filter rows: Search this table
New	
+ M major	Sort by key: None
+ student	+ Options
	← Ţ → ▼ majorlD majorName
test	🗌 🥜 Edit 👫 Copy 🥥 Delete 1 Computer Science
uebauth webauth	🗌 🥜 Edit 👫 Copy 🤤 Delete 2 Electrical Engineering
	🗌 🥜 Edit 📲 Copy 🥥 Delete 3 Business
	← Check All With selected:
	Number of rows: 25 V Filter rows: Search this table

e localhost/phpmyadm								٩	+	俞合口	ê 🚺-	
php <mark>MyAdmin</mark> 企画 & ● □ ¢	← Server: *	127.0.0.1 » 🕤 Dat	abase: richard	_ricardo_stu	-		04.0	Import		Privileges	▼ More	9
Recent Favorites	Showing r	ows 0 - 8 (9 total,	Query took 0.	0005 secon	ds.)							
L cdcol L information_schema L kungfu_panda_shop	SELECT * F	ROM 'student'										
La mysql La performance schema						Profiling [Inline] [E	dit] [Expla	ain SG	L] Create P	HP Code]	Refres
phpmyadmin ichard_ricardo_student_db	Number of re	ows: 25 ¥	Filter row	s: Search t	his table							
New 	Sort by key: N	lone	~									
+ K student	+ Options				-							
L sample	←T→		studentID	majorID	firstName	lastName	gender					
)–)) test		ECopy 😑 Delet			PO	BLACK	M					
Li webauth		🕯 Copy 🥥 Delet			SHIFU	HOFFMAN						
		é Copy 🤤 Delet			TIGRESS	JOLIE	F					
		🕯 Copy 🥥 Delet			JENNIFER	YUH	F					
		Copy 🤤 Delet		2	MONKEY	CHAN	м					
	🗌 🥜 Edit 📱	🕯 Copy 🤤 Delet	e 8	2	MANTIS	ROGEN	м					
	🗌 🥜 Edit 💈	🕯 Copy 🤤 Delet	e 9	3	CRANE	CROSS	м					
	🔲 🥜 Edit 💈	🕯 Copy 🥥 Delet	e 10	3	OOGWAY	KIM	м					
	🗌 🥜 Edit 🔒	🕯 Copy 🤤 Delet	e 11	3	PING	HONG	м					
	↑ □ Che	eck All With	selected: 🥖	Change	Delete	🜉 Export						
	Number of re	ows: 25 🗸	Filter row	s: Search t	his table							

Example: "records" in student table

Example: data privileges for user richardricardo1

php MyAdmin	← 🛒 Server: 127.0.0.1							
<u>↑ 5</u> 6 0 0 0 0	🗊 Databases 🔝 So	QL 🐁 Status 📧 Users	🖶 Export 📑 Imp	ort 🥜 Settings	Replication	Variables	E Charsets	Engines
Recent Favorites	Global Database	Change password Login	Information					
information_schema kungfu_panda_shop mysql	Edit Privileges	s: User 'richardrid	cardo1'@'loca	alhost'				
	Database-specific pr	ivineges						
richard_ricardo_student_db	Database	Privileges	Grant Table-sp	ecific privileges Act	tion			
New	richard_ricardo_student	_db select, insert, update,	delete No No	2	Edit Privileges 🤱 R	evoke		
• Major • Student	Add privileges on the foll	owing database: Use text field:	~	6	9			
L sample								
								Go
Li test								

Question 2 – Display: PHP Chapter 4, eg009 and knowledge of SQL (35 points)

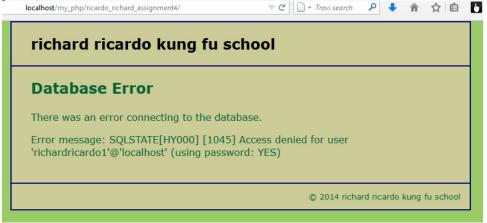
Estimated time: 4 hours

- Save question 2 files in "lastname firstname assignment4": (4 points)
 - o index.php
 - o main.css
 - o richard_ricardo_database.php
 - o richard_ricardo_database_error.php
- Create web page(s) that displays the default information (example shown).
- The initial page and related outputs should look like the examples shown below.
- Create your page(s) using "richard ricardo's kung fu school" as the page title(s) (<title> tag). (2 points)
- Save the first page as index.php. (1 point)

- Create file richard ricardo database.php (php code only, no html code) to connect to database
 - o Use PDO (PHP Data Object) to interface with your MySQL database.
 - Connect to the **richard_ricardo_student_db** MySQL database (created in Q1), using username **richardricardo1** with password **richardisgreat**.
 - Use try {} catch () {} exception handling to detect if the connection is successful.
 - If the connection is not successful, show an error page richard ricardo database error.php.
- Create a css file named **main.css** to format all pages by creating your own layout (no two students should have the same layout). You should use **the same css file** to format all questions. (6 points)
- index.php
 - Uses richard ricardo database.php to connect to the database.
 - The sidebar on the left displays a list of majors from the "major" table (created in Q1).
 - The main portion of the page lists the students from the "student" table (created in Q1), for that major.
 - If a user wants to view the students in another major, the user can click on the link for that major.
 - The display on the main portion of the page changes accordingly as shown in examples.

Example: richard_ricardo_database.php (shows nothing, only has php code) (3 points) localhost/my_php/ricardo_richard_assignment4/richard_ricardo_database.php v C V v rovi search P + A A I

Example: richard_ricardo_database_error.php (shows this if something is wrong with database connection) (4 points)



Student Li	ist					
Majors	Computer	Science				
<u>Computer</u> <u>Science</u>	Student ID	First Name	Last Name	Gender		
Electrical	1	PO	BLACK	М	Delete	
Engineering Business	2	SHIFU	HOFFMAN	М	Delete	
Business	3	TIGRESS	JOLIE	F	Delete	
	4	JENNIFER	YUH	F	Delete	
	<u>Add Student</u> List / Add Ma					

Example: index.php (first major is selected/clicked) (15 points)

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

localhost/my_php/ricardo_richard_assignment4/?major_id=2	<u>ک</u>	☆ 自	6

Richard Ri	cardo Kur	ng Fu Sch	ool - St	udent	5	
Student Li						
Majors Computer	Electrical E	First		Gender		
Science	ID	Name	Last Name	Gender		
Electrical	6	MONKEY	CHAN	М	Delete	
<u>Engineering</u> Business	8	MANTIS	ROGEN	М	Delete	
	<u>Add Student</u> <u>List / Add Ma</u>	<u>tior</u>				
			© 2	014 richard ı	ricardo kung	fu school

Student L	ist				
Majors	Business				
<u>Computer</u> Science	Student ID	First Name	Last Name	Gender	
Electrical	9	CRANE	CROSS	М	Delete
Engineering	10	OOGWAY	KIM	м	Delete
<u>Business</u>	11	PING	HONG	м	Delete
	<u>Add Student</u> List / Add Ma	<u>iior</u>			

Example: index php (third major is selected/clicked)

Question 3 – Delete Student: PHP Chapter 4, eg009 and SQL (20 points)

Estimated time: 3 hours

- Save question 3 files in folder "lastname firstname assignment4". (2 points) • richard_ricardo_delete_student.php
- The initial page and related outputs should look like the examples shown below.
- Create your page(s) using "richard ricardo's kung fu school" as the page title(s) (<title> tag). (2 points) •
- When a user click on a "Delete" link on index.php, (16 points) •
 - the user should be directed to richard ricardo delete student.php.
 - o richard ricardo delete student.php uses richard_ricardo_database.php to connect to the database.
 - the selected student record will be deleted from the database table "student". 0
 - index.php will be shown again with updated records.

Student L	ist				
Majors	Computer	Science			
<u>Computer</u> <u>Science</u>	Student ID	First Name	Last Name	Gender	
Electrical	1	PO	BLACK	М	Delete
<u>Engineering</u> Business	2	SHIFU	HOFFMAN	М	Delete
DUSINESS	3	TIGRESS	JOLIE	F	Delete
	4	JENNIFER	YUH	F	Delete
	<u>Add Student</u> List / Add Ma				

Example: index.php, before deletion, click on the delete button on Student ID 4

Richard F	Ricardo Kur	ng Fu Sch	100l - St	udent	5
Majors	Computer	Science			
<u>Computer</u> <u>Science</u>	Student ID	First Name	Last Name	Gender	
Electrical	1	PO	BLACK	М	Delete
Engineering Business	2	SHIFU	HOFFMAN	М	Delete
DUSINESS	3	TIGRESS	JOLIE	F	Delete
	<u>Add Student</u> List / Add Ma	aior			
			© 2	014 richard I	ricardo kung fu

8

Estimated time: 4 hours

Question 4 – Add Student: PHP Chapter 4, eg009 and SQL (25 points)

• Save question 4 files in folder "lastname_firstname_assignment4". (2 points)

- o richard_ricardo_add_student_form.php
- richard_ricardo_add_student.php
- richard_ricardo_error.php
- The initial page and related outputs should look like the examples shown below.
- Create your page(s) using "richard ricardo's kung fu school" as the page title(s) (<title> tag). (2 points)
- When a user click on "Add Student" link on index.php, (21 points)
 - the user should be directed to richard ricardo add student form.php.
 - a link "View All Students" giver the user option to go back to index.php.
 - richard_ricardo_add_student_form.php uses richard_ricardo_database.php to connect to the database.
 - A dropdown list will show all majors by retrieve records from "major" database table (created in Q1).
 - o After the user keyed in new student data, and press the submit (Add Students) button,

richard_ricardo_add_student.php will be used to add student record to the "student" database table, and index.php will be shown again with updated records.

- richard_ricardo_add_student.php uses richard_ricardo_database.php to connect to the database.
- If the user left any textbox empty, richard_ricardo_error.php page will be shown.

Example: richard ricardo add student form.php

Richard	Richardo Kung Fu School - Add Student
Add Stu	dent
Major:	Computer Science
First Name:	Computer Science Electrical Engineering
Last Name:	Business
Gender:	Male 🗸
	Add Student
<u>View All Stu</u>	<u>dents</u>
	© 2014 richard richardo kung fu schoo

Example: richard_ricardo_add_student_form.php, user input	
localhost/my_php/ricardo_richard_assignment4/richard_ricardo_add_student_fo ⊽ C 🗋 ▼ Trovi search 👂 🖡 🏫	☆自
Richard Richardo Kung Fu School - Add Student	

Add Stu	dent	
Major:	Computer Science	
First Name:	JENNY	
Last Name:	CHAN	
Gender:	Female 🗸	
	Add Student	
View All Stu	dents	

Example: after successfully adding student record

localhost/my_php/ricardo_richard_assignment4/richard_ricardo_add_student.ph 🛡 C 🗋 👻 Trovi search 🛛 🔎 🔸 🏫 🏠 📋 🚺

Student L Majors	ist Computer :	Science			
<u>Computer</u> <u>Science</u>	Student ID	First Name	Last Name	Gender	
Electrical	1	PO	BLACK	М	Delete
Engineering Business	2	SHIFU	HOFFMAN	М	Delete
Business	3	TIGRESS	JOLIE	F	Delete
	12	JENNY	CHAN	F	Delete
	<u>Add Student</u> <u>List / Add Ma</u>				

Г

Example: richard_ricardo_error.php page: If any textbox is left empty, richard_ricardo_error.php page will be shown.

$calhost/my_php/ricardo_richard_assignment4/richard_ricardo_add_student.ph \ \forall \ C^{t} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	J ▼ Trovi search 🏸 🖡 🏠 🔯 🗉
Richard Ricardo Kung Fu School	
Error	
Invalid (missing) name. Check all fields and try again.	
<u>View All Students</u>	
	© 2014 richard ricardo kung fu school

Question 5 Extra Credit – List / Add Major: (20 points) Estimated time: 4 hours

Save question 5 files in folder "lastname_firstname_assignment4". (1 point)

- richard_ricardo_major_list.php
- richard_ricardo_delete_major.php
- richard_ricardo_add_major.php
- The initial page and related outputs should look like the examples shown below.
- Create your page(s) using "richard ricardo's kung fu school" as the page title(s) (<title> tag). (1 point)
- When a user click on a "List / Add Major" link on index.php, (2 points)
 - the user should be directed to richard_ricardo_major_list.php.
 - o richard_ricardo_major_list.php uses richard_ricardo_database.php to connect to the database.
 - records from the "major" table will be displayed.
- When the user click on "Add" button without keying in anything, richard_ricardo_error.php page (created in Q4) will be shown. (4 points)
- When the user key in some major, and click on "Add" button, (4 points)
 - the user should be directed to richard_ricardo_add_major.php.
 - o richard_ricardo_add_major.php uses richard_ricardo_database.php to connect to the database.
 - user input will be added to "major" database table.
 - o richard ricardo major list.php will be shown again with updated records.
 - When the user click on a "Delete" link on richard ricardo major list.php, (8 points)
 - the user should be directed to richard_ricardo_delete_major.php.
 - richard_ricardo_delete_major.php uses richard_ricardo_database.php to connect to the database.
 - o the selected major record will be deleted from the database table "major".
 - o richard ricardo major list.php will be shown again with updated records.
 - Due to foreign key referencing, user should not be able to delete any "major" record with "student" record linked to it (Q1).

Major List				
Computer Science	Delete			
Electrical Engineerin	ng Delete			
Business	Delete			
Add Major				
Major Name:		Add		

Example: richard ricardo error.php (user click on "Add" without textbox input) localhost/my_php/ricardo_richard_assignment4/richard_ricardo_add_major.php
C

Richard Ricardo Kung Fu School
Error
Invalid (empty) major data. Check all fields and try again.
<u>View All Students</u>
© 2014 richard ricardo kung fu school

12

Major List				
Name				
Computer Science	Delete			
Electrical Engineering	Delete			
Business	Delete			
Add Major				
Major Name: Biology	Ado			

1t "h:_1 r 1. / 1 *,*") 1

Example: richard_ricardo_major_list.php (after user input) localhost/my_php/ricardo_richard_assignment4/richard_ricardo_add_major.php VC 🔎 💺 🏠 🚖 🖪

Delete		
Delete		
Delete		
Delete		
Add		
	Delete Delete	Delete Delete

Major List				
Name				
Computer Science	Delete			
Electrical Engineering	Delete			
Business	Delete			
Biology	Delete			
Add Major Major Name:	Ad	-		
	Add			

Example: richard_ricardo_major_list.php (user to click on "Delete" next to "biology")

Example: richard_ricardo_major_list.php (show updated records)

Delete					
ng Delete					
Delete					
A	dd				
	ng Delete Delete	ng Delete	Delete	Delete	Delete

.

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. 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>.
- 4. Before adding PHP code, all html files must pass html validation at <u>http://validator.w3.org/</u> without any error (and with only 1 warning).
- 5. After adding PHP code, the generated html code (Firefox web browser > right-click > view page source) must also pass html validation at <u>http://validator.w3.org/</u> without any **error** (and with only 1 warning).
- 6. All css files must pass css validation at <u>http://jigsaw.w3.org/css-validator/</u> without any error/warning.
- 7. If your files do not pass the html and css validations, **2 points will be deducted** for **each html or css error/warning** found (1 warning allowed for html validator).
- 8. 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_assignment4.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_assignment4) into a single zip file (or rar file) lastname_firstname_assignment4.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_assignment4\create_db.sql
- lastname firstname assignment4\index.php
- lastname_firstname_assignment4\main.css
- lastname firstname assignment4\richard ricardo add major.php (extra credit)
- lastname firstname assignment4\richard ricardo add student.php
- lastname firstname assignment4\richard ricardo add student form.php
- lastname firstname assignment4\richard ricardo database.php
- lastname_firstname_assignment4\richard_ricardo_database_error.php
- lastname firstname assignment4\richard ricardo delete major.php (extra credit)
- lastname firstname assignment4\richard ricardo delete student.php
- lastname_firstname_assignment4\richard_ricardo_error.php
- lastname_firstname_assignment4\richard_ricardo_major_list.php (extra credit)

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.