**Assignment 1 – Intro to Web Programming**

This assignment requires you to insert and select data from a database, validate user inputs and send email using PHP scripting. Your mark counts for 25% of your final grade.

Due Date:  **Wednesday, June 4 @ 11:59 pm**

**Submission Requirements via Blackboard:**

* a single .zip file containing all your pages
* the url’s to your pages on the webdesign4 server so that I can run them
* your full name in the email

All work must be your own. Failure to submit an independent assignment will result in a grade of zero.

# Description: Student-Chosen Web Application

You may choose the subject of your web site. The purpose of your site should be something that is of interest to you, so long as it meets the requirements below. Some examples are:

* Web site registration & user list
* Sports team manager
* Online music tracker (e.g. iTunes)
* Task manager
* Family Household Chore tracker

In this assignment you will use PHP, HTML, and SQL to:

* Design 1 or more database tables
* Build a form to capture user input
* Validate user input
* Save data to a database table
* Query the database and output the data into a dropdown list
* Query the database and output the data into an HTML table
* Send email
* Document your code with comments within your scripts

**Application Requirements:**

1. Document each section of your PHP scripts with comments. You do not need to document every single line.
2. Create tables in your database to store the user inputs and also to populate any dropdown lists you need on your input forms
3. Create a minimum of 1 input form that includes:
   1. Input controls for each of the field in your database table listed above
   2. At least 1 dropdown list that is populated from a table in your database (this means the page will need a .php extension)
4. Create a PHP page that accepts a form POST from #3 above. The PHP page should:
   1. Verify that values have been entered in each field and show a message to the user about any missing inputs
   2. Save the data to the database if all the input data is valid
   3. Send a confirmation email upon successfully saving to the database
5. Create a PHP page that shows data from the database in an HTML table.

**Evaluation Method**

Your work will be evaluated based on how your PHP scripts perform when I load and try your web pages on the webdesign4 server.

# Evaluation Criteria (max 32 marks + 2 possible bonus marks)

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| --- | --- | --- | --- | --- | --- |
| **Criteria** | **0-2** | **3-4** | **5-6** | **7-8** | **Marks** |
| **Create Table** | - Little no table | - Partly complete table | - Mostly complete, mostly logical data types | - Complete, well-designed tables with good use of data types | **2** |
| **Insert Data** | - No create | - Some create code correct | - Most create | - All functioning create | **8** |
| Query Data for dropdown & HTML table | - No queries | - Some queries & output correct | - Most queries & output correct | - All functioning queries & output | **8** |
| Validate Data | - No validation | - Some validation | - Most validation working | - Fully functioning validation | **8** |
| **Email** | - No email | - Some attempt to email | - Email sending but not 100% complete | - Fully functioning email | **4** |
| **Code Commenting** | - No comments | - Some attempt to explain code | - Most sections clearly explained | - All sections clearly explained | **2** |
| **\*\*\* WILD-CARD BONUS \*\*\*** |  |  |  | - Up to 2 bonus marks for any additional working functionality of your choosing | **2** |