

# Phase05 - Validation


## Objectives

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- Set up validation functions
- Add `.gitignore`
- Add a README.md file

## Setup

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You can use the starter-les or continue working with the code you have built.

## Videos

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Watch [chapter 8: Validation](#) from PHP and MySQL Essential Training: The Basics

## Validation

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### 8.1 Common data validation types

This chapter starts by listing some of the standard validation types.

Copy the `validation_functions.php` file into your private folder.

Read through the functions

If you have a question about how a function works, then research it using AI.

Notice that his functions return Boolean values (true or false). He doesn't actually return true or false; rather the expression is evaluated. This is a common way to write functions.

He uses a regular expression. These are incredibly powerful, but if you don't use them frequently, you will spend a lot of time looking them up (that's okay!). In most instances, PHP has a similar function to a regular expression and the PHP function executes faster.

## 8.2 Validate form values

As programmers, we want to validate data before creating and updating records.

Reporting all errors at once is the best user experience.

## 8.3 Display validation errors

Later in the video, Kevin runs into a problem and has you move three lines outside of an if...else statement. I tried using the following code to mimic the same result. Based on my testing, you do not need these lines.

## 8.4 Problems with validation logic

This is a short video that is worth watching for reference.

# Upload phase05 to your webhost

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NOTE: Make sure to change your db\_credentials.php file, so the program uses your webhost's credentials. Test your program on your webhost.

## Git and GitHub

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Stage and commit your files.

### Hiding db\_credentials.php

We want to hide our db\_credentials.php so people on GitHub don't see our database credentials. Use .gitignore to do this.

Sure! Here's a short and clear set of instructions on how to use .gitignore in your project:

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### How to Use .gitignore in a Git Project

1. Create a .gitignore file (if it doesn't exist):

In your project root folder, create a file named .gitignore .

2. List files or folders to ignore:

Add each file or directory you want Git to ignore on a new line.

For example:

```
# Ignore database credentials
private/db_credentials.php

# Ignore all log files
*.log

# Ignore folders
/node_modules/
/vendor/
```

### 3. Make sure the file is not already tracked:

If the file was committed before, remove it from Git tracking:

```
git rm --cached path/to/your/file
```

### 4. Commit your changes:

```
git add .gitignore
git commit -m "Update .gitignore to exclude sensitive or unnecessary fi
git push
```

### 5. Done!

Git will now ignore the listed files and folders.

Test your work by going to GitHub and make sure the `db_credentials.php` is not longer available.

## Create a README.md file

We want to add instructions so people coming to our site can recreate the `db_credentials.php` file.

Create a file named `README.md` and store it in your project root folder.

README.md files use Markdown which is an HTML preprocessing language. It makes writing HTML extemeley easy.

I use [DaringFireball](#) as Markdown source, but there are many others.

You can use this README.md file from my site as an example. You also modify it.

Great — based on your info, here's a clean `README.md` you can use for your PHP/MySQL project:

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# PHP/MySQL Project

This is a basic PHP project that connects to a MySQL database using credentials stored in a secure, non-tracked file.

## Requirements

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- PHP 7.4+
- MySQL 5.7+
- Web server (e.g., Apache, Nginx)

## Installation

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### 1. Clone the repository:

```
git clone https://github.com/your-username/your-repo-name.git
cd your-repo-name
```

### 2. Create a `db_credentials.php` file:

Inside the `private/` folder (create it if it doesn't exist), create a file named `db_credentials.php` with the following content:

```
<?php
define("DB_SERVER", "");
define("DB_USER", "");
define("DB_PASS", "");
define("DB_NAME", "");
```

Fill in the appropriate values for your MySQL setup.

## 1. Protect your credentials:

Make sure `db_credentials.php` is listed in your `.gitignore` file so it is not committed to version control:

```
/private/db_credentials.php
```

## Usage

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The program is written so the `initialize.php` will always include the `db_credentials.php` file.

## Security Note

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Never commit `db_credentials.php` to version control. Use `.gitignore` to prevent accidental exposure of sensitive credentials.

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## Submit your work

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- Submit your GitHub and webhost addresses in the comments section of Moodle.
- I have left open the link to submit your zipped files in case you are having difficulty uploading to GitHub.