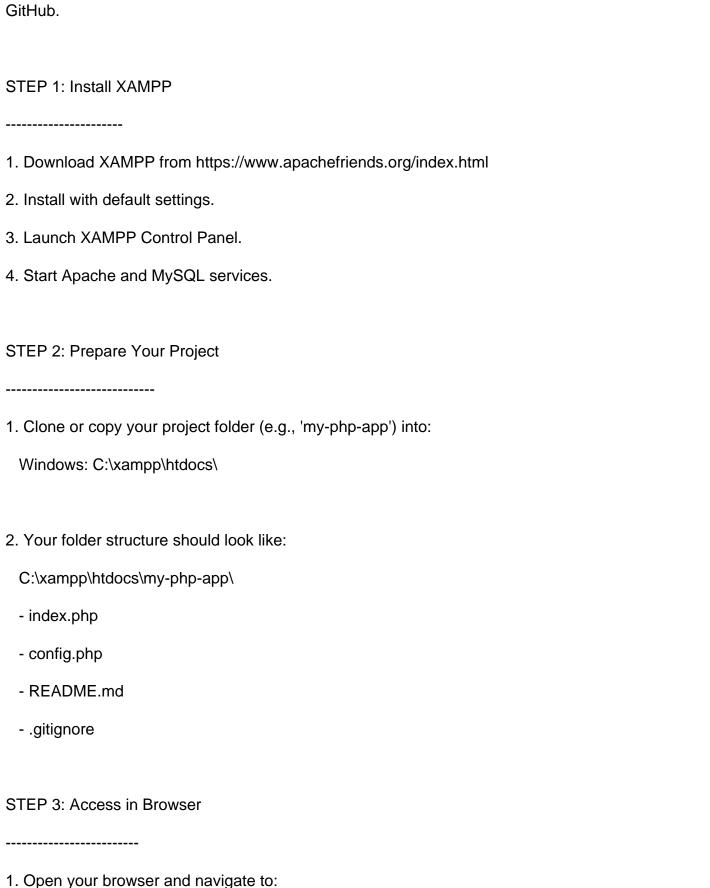# Deployment Guide: PHP + MySQL Local Development Environment

This guide will help you deploy and run your PHP + MySQL project locally using XAMPP and GitHub.

STEP 1: Install XAMPP

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1. Download XAMPP from https://www.apachefriends.org/index.html

2. Install with default settings.

3. Launch XAMPP Control Panel.

4. Start Apache and MySQL services.

STEP 2: Prepare Your Project

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1. Clone or copy your project folder (e.g., 'my-php-app') into:

   Windows: C:\xampp\htdocs\

2. Your folder structure should look like:

   C:\xampp\htdocs\my-php-app\

   - index.php

   - config.php

   - README.md

   - .gitignore

STEP 3: Access in Browser

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1. Open your browser and navigate to:

   http://localhost/my-php-app/

2. You should see "Hello, World!" or your project homepage.

STEP 4: Set Up MySQL (Optional)

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1. Open phpMyAdmin: http://localhost/phpmyadmin

2. Create a database named: my_database

3. Update 'config.php' with credentials:

```
$host = "localhost";

$user = "root";

$password = "";

$database = "my_database";
```

4. Create a test script (e.g., db-test.php) to check DB connection.

STEP 5: Version Control with Git & GitHub

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1. Initialize Git:

```
git init

git add .

git commit -m "Initial commit"
```

2. Add your GitHub repo as remote and push:

```
git remote add origin https://github.com/YOUR_USERNAME/YOUR_REPO.git

git branch -M main

git push -u origin main
```

Congratulations! Your local PHP environment is now up and running.