**README for DBMS Project: Bank Loan Cases Management System**

**Project Overview**

This project is a **Bank Loan Cases Management System** developed using **HTML**, **CSS**, and **PHP**. The goal of the system is to manage various bank loan cases efficiently by connecting the user interface with the backend database. The backend is powered by a MySQL database, which is accessed and manipulated using PHP scripts.

**Tools and Technologies Used**

1. **HTML** – For creating the structure of the user interface.
2. **CSS** – For styling the web pages and making them user-friendly.
3. **PHP** – For handling the server-side logic and database interaction.
4. **MySQL** – For storing and retrieving data from the database.
5. **WAMP Server** – A local development environment for Windows, used to run Apache, MySQL, and PHP.
6. **phpMyAdmin** – A web-based application for managing MySQL databases.

**Roadmap of the Project**

The Bank Loan Cases Management System has been developed following these steps:

1. **Frontend Development:**
   * Designed the interface using **HTML** and **CSS**.
   * Structured forms for inputting loan-related data and displaying results.
2. **Backend Development:**
   * Developed the server-side logic using **PHP** to process requests and interact with the database.
   * Created a MySQL database named **bank\_loan\_cases** to store the loan records.
3. **Database Integration:**
   * Established a connection between the PHP scripts and the MySQL database.
   * Utilized **phpMyAdmin** for managing the database schema and tables.
4. **Testing and Deployment:**
   * Tested the project locally using **WAMP Server** to ensure proper functionality.

**Deployment Steps**

Follow the steps below to deploy the Bank Loan Cases Management System locally on your system:

**Step 1: Install WAMP Server**

1. Download and install the **WAMP Server** from the official website: [WAMP Server Download](https://www.wampserver.com/en/).
2. After installation, launch the WAMP Server. It will start Apache and MySQL services.

**Step 2: Set Up phpMyAdmin**

1. Open your web browser and go to http://localhost/phpmyadmin/.
2. Log in with the default username (root) and leave the password field blank (unless you've set a custom password).
3. Create a new database called bank\_loan\_cases. This will be used to store all the loan case data.

**Step 3: Create Database Tables (Optional)**

1. If necessary, use **phpMyAdmin** to create the required tables within the bank\_loan\_cases database.
2. You can define the schema based on the project requirements.

**Step 4: Place the Project Files**

1. Copy your project files (HTML, CSS, PHP files) to the **www** directory inside your WAMP server installation directory (usually located at C:/wamp64/www/).
2. Make sure your PHP files are correctly placed within the folder, and check that the **bank\_loan\_cases** database is connected to the project.

**Step 5: Establish Database Connection (PHP)**

Ensure that the database connection is correctly set up in your PHP script. You can use the following sample PHP code to establish the connection:

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "bank\_loan\_cases"; // Replace with your actual database name

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

?>

This code connects to the MySQL database **bank\_loan\_cases** using the local MySQL server with default credentials (root as the username and no password). Ensure that the database name and credentials match your setup.

**Step 6: Run the Project**

1. Open a browser and go to http://localhost/your\_project\_folder\_name (replace your\_project\_folder\_name with the name of the folder where you placed your project files).
2. You should now be able to see the Bank Loan Cases Management System interface in your browser.

**Troubleshooting**

* **WAMP Server Not Turning Green**: If WAMP Server’s icon is not turning green, it could mean there’s a conflict with other services using port 80. You can change the port used by Apache through the WAMP Server menu.
* **Database Connection Errors**: Ensure that the database name in your PHP script matches the one created in phpMyAdmin. Double-check that WAMP's MySQL service is running.

**Conclusion**

This project demonstrates a simple Bank Loan Cases Management System that integrates HTML, CSS, PHP, and MySQL. By following the above steps, you can deploy and test the system on your local machine using WAMP Server. Make sure to adapt the database schema and PHP code to meet your project’s requirements.

If you have any questions or need further assistance, feel free to reach out!