Task 3

Explain how your database was set up.

1. Created a UML Diagram to visualise the table and the connections
2. Went onto phpMyAdmin
3. Created the collectifyMT db.
4. Added all the tables stated in the UML diagtram.
5. Opened in Visual Studio Code the config file so that I can connect to the db.
6. Coded in visual studio code to gather the information from the database.

Explain the techniques used to manipulate data in your database through you web application.

1. Connecting to the database by establishing a connection using 'mysqli'
2. Creating data using 'insert' statements.
3. Reading data using 'select' statements.
4. Updating data using 'update' statements.
5. Deleting data using 'delete' statements.

Explain how a virtual server was set up locally on your device to mimic a live server.

1. Install and launch xampp.
2. Start apache and mysql.
3. Opened the web browser and went to localhost.
4. I put my project in the htdocs folder.
5. I edited the txt file so that it opens my project directly.

Include Test Cases following the process detailed in your IPO chart in Task 1.

Test Case	Input	Process	Expected Output	Actual Output	Pass/Fail	Notes
TC1	Username, Password	User submits login form	System authenticates user	Redirected to main feed	Pass	
TC2	Email, username, password, name	User submits registration form	System created new user	Redirect to interests	Pass	
TC3	Interest selections	User submits interests form	System saves interests	Redirect to main feed	Pass	
TC4	New post content	User submits new post	System saves post to database	Post appears on main feed	Pass	
TC5	Message content, recipient	User sends message	System saves message to database	Message appears in recipient's inbox	Pass	
TC6	Friend request	User sends friend request	System saves friend relationship	Friend appears in user's friend list	Pass	Must input username perfectly
TC7	Notification content	System generates notification	System saves notification to database	Notification appears in user's notifications	Pass	Notifies for new requests, messages
TC8	Setting name, Setting value	User updates setting	System saves setting	Setting appears updated in settings page	Fail	Settings never included
TC9	Comment content	User submits comment	System saves comment to database	Comment appears under the post	Pass	
TC10	Like action	User likes a post	System saves like to database	Like count increases on the post	Fail	Like does not show uo
TC11	Group creation data	User creates a group	System saves group to database	Group appears in group list	Pass	
TC12	Group membership data	User joins a group	System saves membership to database	User appears in group member list	Fail	Groups don't have members