Minesweeper Project Setup Instructions

Files Included in the ZIP

1. setup.php: Script to automatically create the database, tables, and sample data.
2. Minesweeper.sql: Backup SQL file for manual database import.

Steps to Run the Project

1. Extract the Files

* Unzip the provided project folder (Minesweeper\_project.zip) into your local server's root directory:
  + For XAMPP, place it in C:/xampp/htdocs/Minesweeper\_project/.

2. Start the Server

* Launch XAMPP and start:
  + Apache (for PHP).
  + MySQL (for the database).

3. Option A: Use setup.php to Create the Database (Preferred)

1. Open a web browser and navigate to: <http://localhost/Minesweeper_project/setup.php>
2. The script will:
   * Create a database named minesweeperDB.
   * Create the required tables: beginnerleaderboard, intermediateleaderboard, expertleaderboard, and users.
   * Insert initial sample records for testing.
3. Upon completion, you’ll see confirmation messages for database and table creation.

4. Option B: Manually Import Minesweeper.sql

If setup.php cannot be used:

1. Open phpMyAdmin:
2. Navigate to <http://localhost/phpmyadmin/>
3. Create a new database:
   * Name it minesweeperDB.
4. Import the backup file:
   * Select the Import tab.
   * Choose Minesweeper.sql from the extracted folder.
   * Click "Go" to import the data.
5. Verify the import:
   * Check that the beginnerleaderboard, intermediateleaderboard, expertleaderboard, and users tables exist with sample records.

5. Access the Application

1. Navigate to the ‘./php/config.php’ file to update credentials that can be used globally through the program. Then navigate to the project in your browser: <http://localhost/Minesweeper_project/index.html>
2. You’ll see the Minesweeper interface with the following functionalities:
   1. Play Minesweeper: Choose difficulty levels (Beginner, Intermediate, Expert). An “auto-win” button is there and will display all mine flags for testing purposes.
   2. Leaderboard: View top scores for each difficulty level.
   3. User Accounts: Manage user accounts (register/login).

If you need to reset the database:

1. Run setup.php again: This will recreate the database and reset the sample records.
2. Alternatively, manually re-import Minesweeper.sql using phpMyAdmin.