

**GROUP 1
PROJECT 2**

WORDLE GAME

LEADER AND MEMBERS' NAMES:

LEADER:

MEMBER 1: LAMA BANDER ALSAEDI

MEMBER 2: HAYA NAIF ALNFAIE

MEMBER 3: LAMA KUDISH

MEMBER 4: RIMAS HASSAN ALSHEHRI

MEMBER 5: GHALA ABED

PROJECT IDEA SUMMARY

The project is about a Wordle game that uses JavaFX for the graphical user interface (GUI) and MySQL for database management. In this game, a player must guess a five letter secret word within six attempts. After each guess, the game provides feedback by highlighting:

Letters in the correct positions.

Correct letters in the wrong positions.

Letters not in the secret word.

The game will include user accounts and a score tracking system to track the player's performance.

DATABASE DESIGN

THE DATABASE FOR THE ENHANCED WORDLE GAME INCLUDES:

1. **USERS TABLE:**

- PURPOSE: STORES PLAYER INFORMATION.
- COLUMNS:
 - USER_ID (PRIMARY KEY).
 - USERNAME.
 - PASSWORD.
 - HIGH_SCORE.
 - GAMES_PLAYED.

2. **GAMEHISTORY TABLE:**

- PURPOSE: LOGS DETAILS OF EACH GAME.
- COLUMNS:
 - GAME_ID (PRIMARY KEY).
 - USER_ID (FOREIGN KEY).
 - SCORE.
 - ATTEMPTS.
 - IS_WIN.
 - DATE_PLAYED.

3. **WORDS TABLE:**

- PURPOSE: MANAGES WORDS USED IN THE GAME.
- COLUMNS:
 - WORD_ID (PRIMARY KEY).
 - WORD.
 - DIFFICULTY.

RELATIONSHIPS

- **USERS ↔ GAMEHISTORY (ONE-TO-MANY):** EACH USER CAN PLAY MULTIPLE GAMES, LINKED VIA USER_ID.
- **WORDS ↔ GAMEHISTORY (OPTIONAL, MANY-TO-ONE):** A WORD CAN BE USED IN MULTIPLE GAMES, LINKED VIA WORD_ID.

APPLICATION'S SCREEN

