

1.0 DESCRIPTION OF APPLICATION

GameLab is a desktop application that acts as a one-stop platform for various simple classing games. In this project, the GameLab application offers three games for users which are 'Break It', 'XOXO' and 'Guess4Life'. Break It! is based on the classic brick game, XOXO is a tic-tac-toe game and Guess4Life is based on the popular word guessing game, Hangman. These games are easy to play and users are also able to play them offline.

This application and the games are written in Java programming language and implemented the JavaFX API to create the GUI. Scene Builder is used to ease the progress of developing the interfaces of the application and games. This project consists of four FXML files which each of the files are for the main window, Break It! window, XOXO window, and Guess4Life window. All windows of the games are set to open in the same window with the main application.

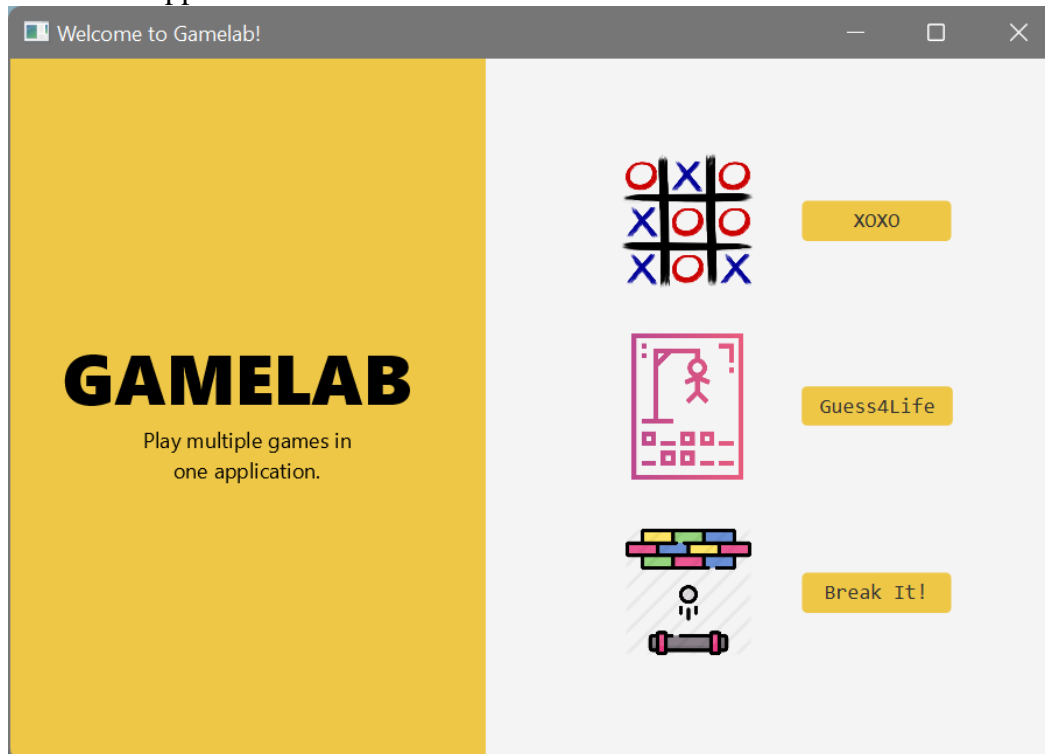
2.0 MEMBER'S CONTRIBUTION

Member	Module	Module Description
Nur Syahirah	GameLab Application	GameLab is a desktop application containing three desktop games which are Guess4Life, Break It!, and XOXO. There are three buttons provided for an easy navigation to each game. When player clicks on button labelled Guess4Life, the game interface will be launched in the same window. When player finishes playing Guess4Life and wants to play another game, they can simply click on the back button provided in the game and the game interface will change to the main application interface in the same window.
Wan Nadzirah	Guess4Life Game	Guess4Life is a single-player game whereby a word which is the name of asian countries will be randomly generated in each round. The player can start the game by clicking the 'START' button so that a random word will be generated. After the hidden word has been generated, empty spaces will be displayed according to the length of the hidden word. The player needs to enter only one letter for each guess. When the player guesses the correct letter, that letter will replace the empty spaces according to its position in the hidden words. Each time a player makes a wrong guess, a part of the hangman will be drawn. The game ends either when the player successfully guesses the hidden word which means that the player wins or when the hangman has been

		completely drawn which means that the player loses the game. The player can start a new game after clicking the 'RESET' button.
Manisha Nadiha	Break It! Game	Break It! is a single-player game where the player must break multiple bricks by deflecting a bouncing ball with a paddle. The player can start the game by pressing the 'START' button. Right after the game starts, the ball will start bouncing and each time the ball touches a brick, the brick will be broken and removed. To win this game, the player needs to make sure that all bricks are cleared. The player will lose the game if they fail to prevent the ball from falling by using the paddle to catch and deflect the ball. The paddle moves horizontally and is controlled using the computer's mouse or trackpad. As the game prolongs, the paddle will decrease in size to make it harder to catch the ball. The player will be able to play the game again by pressing the 'RESTART' button.
Nur Iffah Hayati	XOXO Game	XOXO is a game based on the classic Tic-Tac-Toe game. Two players are needed to play this game, where one player represents symbol 'X', and another player represents symbol 'O'. The players can choose to fill in their names, or else it will be displayed as default ('Player 1' and 'Player 2'). There are 9 empty boxes to be filled with the symbols. The rules for this game is that both players will click on each box alternately. Which player is able to make a line of 3 same symbols (horizontally, vertically or diagonally) will be the winner of the game, and the game will end with the winner's notice displayed on top of the boxes. Otherwise if all the boxes are filled with symbols but there is no winner, then the game will end and both players are tied. Players will be able to restart the game whenever they want by clicking on the 'Restart' button.

4.0 APPLICATION LAYOUT

GameLab Application



XOXO Game



Guess4Life Game



Break It! Game

