



UTP
UNIVERSITI TEKNOLOGI PETRONAS

PROJECT REPORT

NAME : MUHAMAD FARHAN RAIS BIN NOOR MOHAMED

ID : 20001518

LECTURER : DR. NORDIN BIN ZAKARIA

Concrete Classes :

- 1) SystemManager
- 2) Player
- 3) StartPage
- 4) GameBoard
- 5) EndPage
- 6) ControllerStartPage
- 7) ControllerGameBoard
- 8) ControllerEndPage
- 9) BoxList
- 10) Box
- 11) OShape
- 12) Xshape

Abstract Classes :

- 1) Pages
- 2) Shape

Interface :

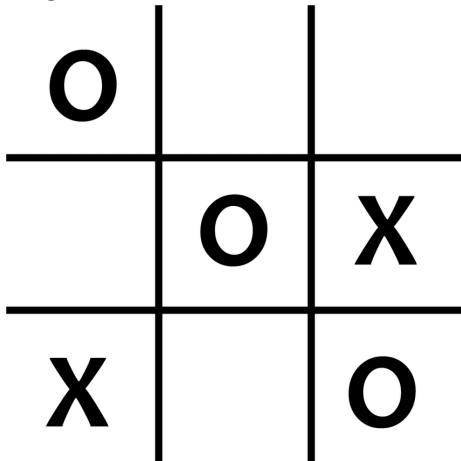
- 1) Controller

Game Overview

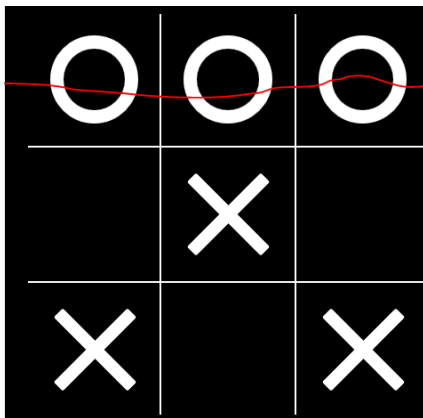
This is a game of TicTacToe that is played by two players. The players will have to key in their details on the start page. The start page will have text fields for the names of player 1 and player 2. Then, there will be a toggle button for shapes that each player have to choose. Both player must choose different shape or otherwise there will exception called. Then, the player can click start button to start the game. A gameboard page will be shown. This page will have 9 boxes. Player 1 will start first as indicated by a turn label. Player 1 can click on any box they want and the box will be highlighted. The highlighted box will have red border colour. Once the box is highlighted, player can press any button on the keyboard to put their chosen shape on the box, as long as there is no shape yet on the highlighted box. Then, the other player can do the same to put his shape on whichever box he prefers. Once there is a winner, the game will move to next page or end page. This page will have result label that will indicate the winner of previous match. Then, players can decide to end the game, by pressing the exit button, or replay again by clicking on the retry button. They can play as much as they want, and if they decide to stop the game, they can click exit. In the middle of the match, player can exit the game by clicking the close button on the top right corner. This will terminate the program.

Rules of Winning

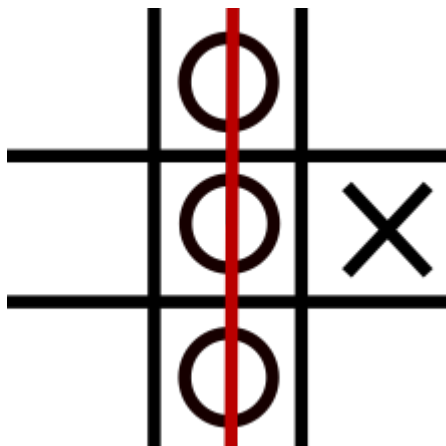
1) Diagonal Win



2) Horizontal Win

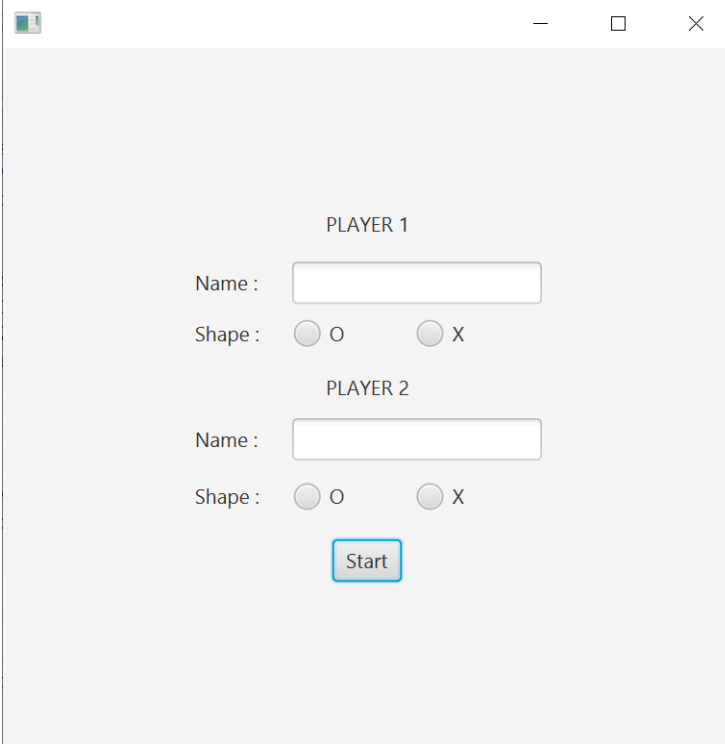


3) Vertical Win



Flow of the Game

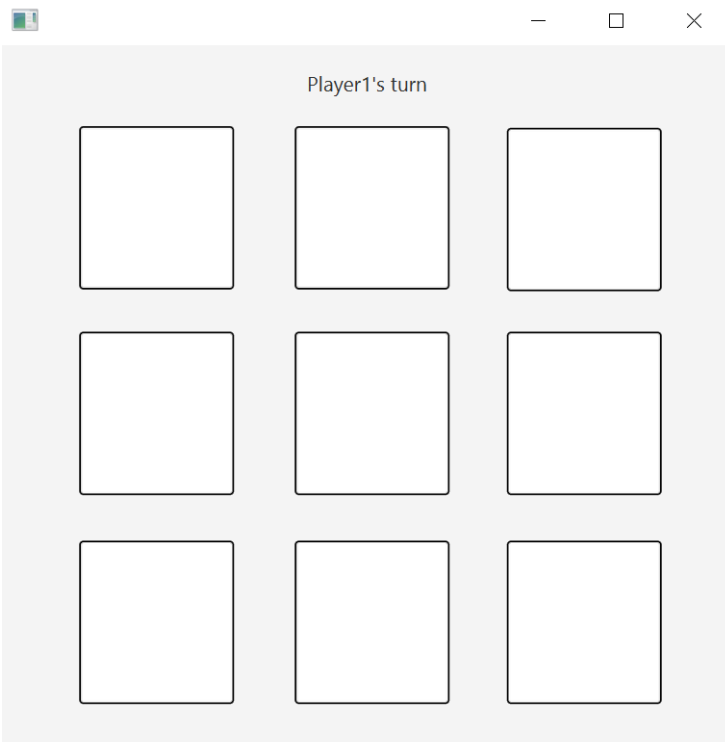
1) Start Page



A screenshot of a software window titled "Start Page". The window has a standard title bar with a minimize button, a maximize button, and a close button. The main content area is light gray and contains the following elements:

- The text "PLAYER 1" is centered.
- Below it, the label "Name :" is followed by a text input field.
- Below that, the label "Shape :" is followed by two radio buttons. The first is labeled "O" and the second is labeled "X".
- The text "PLAYER 2" is centered below the first player's options.
- Below it, the label "Name :" is followed by another text input field.
- Below that, the label "Shape :" is followed by two radio buttons, labeled "O" and "X".
- At the bottom center, there is a blue button with the text "Start".

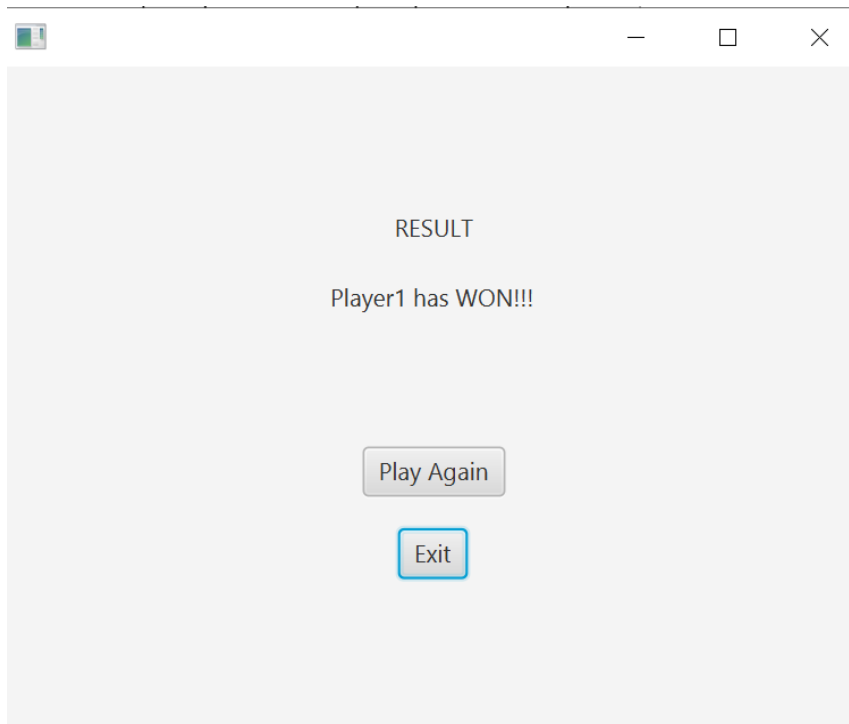
2) Gameboard Page



A screenshot of a software window titled "Gameboard Page". The window has a standard title bar with a minimize button, a maximize button, and a close button. The main content area is light gray and contains the following elements:

- The text "Player1's turn" is centered at the top.
- Below the text is a 3x3 grid of nine empty square boxes, representing the gameboard.

3) End Page



UML Diagram

TIC TAC TOE

