

# **TEB1043: Object Oriented Programming - May 2024**

## **Project Documentation – Tic Tac Toe**

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## YouTube Video Demonstration Link:

 $\underline{https://www.youtube.com/watch?v=5QbteQ5By5Y}$ 

#### **Project Details**

This Tic Tac Toe game project is a Java-based application designed to offer a seamless user experience for playing Tic Tac Toe. The application includes features for user authentication, registration, gameplay, and various settings, ensuring an engaging and customizable experience for users.

#### Classes and Functionalities

## 1. Login Page

- O Username: Field for user to enter their username.
- o Password: Field for user to enter their account's password.
- o Buttons:
  - Login: Logs in the user and navigates to the main menu.
  - Register: Opens the registration page.
  - Cancel: Exits the program.

#### 2. Registration Page

- o Fields:
  - First Name: Field for user to enter their first name.
  - Last Name: Field for user to enter their last name.
  - Username: Field for user to enter their preferred username.
  - Gender: Combo box for user to select their gender between male, female, and "Prefer not to say".
  - Age: Field for entering the age.
  - Email: Field for user to enter their preferred email.
  - Password: Field for user to enter their preferred password.

#### o Buttons:

- Show Password Button: Toggles the visibility of the password.
- Register Button: Registers a new user account.
- Back Button: Returns to the Login Page.

#### 3. Main Menu

- o Buttons:
  - Play Button: Starts a new Tic Tac Toe game.
  - How to Play Button: Opens the How to Play Page.
  - Settings Button: Opens the Settings Page.
  - About Us Button: Displays information about the developers or the application.
  - Exit Button: Exits the application.
  - Logout Button: Logs out the current user and returns to the Login Page.

#### 4. Game

- o Game Board: A 3x3 grid representing the Tic Tac Toe board.
- o Buttons:
  - Main Menu Button: Returns to the main menu.
  - Restart Button: Restarts the current game.
  - Score Board Button: Opens the Scoreboard.

#### 5. Score Board

- o Score Table: A table with three columns for X Score, O Score, and Result.
- o Back To Game Button: Returns to the ongoing game.

#### 6. How to Play Page

o Instructions and rules for playing Tic Tac Toe.

#### 7. Settings Page

- o Buttons:
  - Font Colour Button: Randomises the colour for the labels.
  - Background Colour Button: Randomises the colour for the background.

## 8. About Us Page

o Personal development background of the game and the developers.

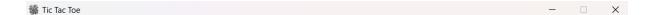
## **GUI Screenshots**



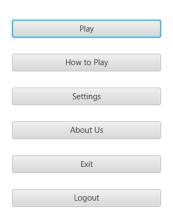
## Login page



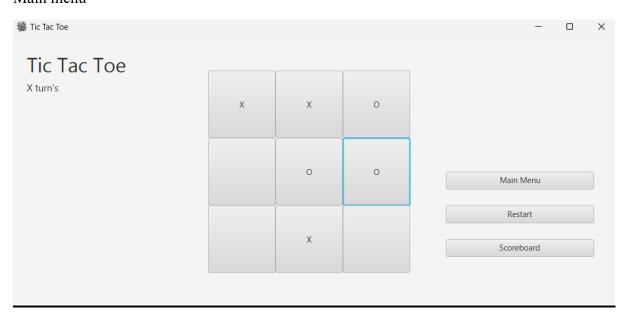
Registration page



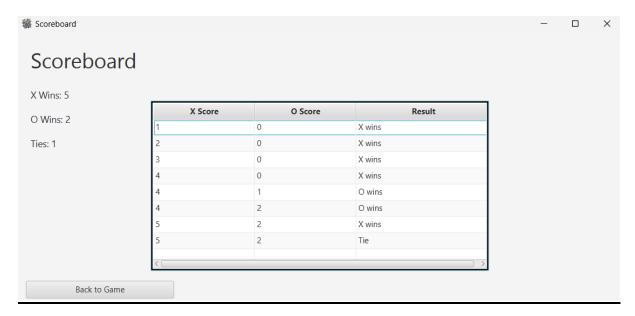




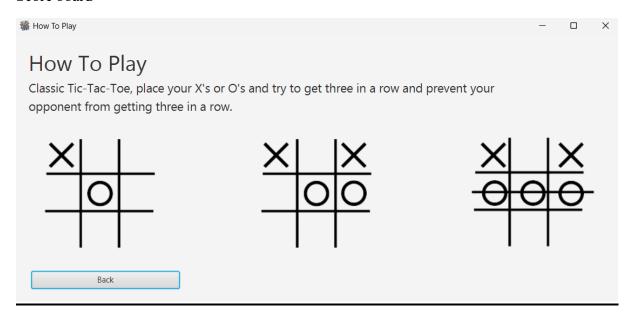
#### Main menu



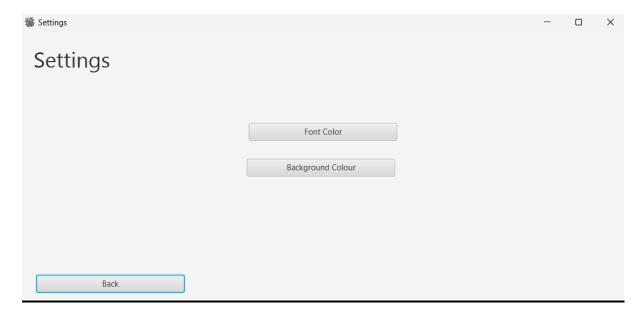
Game board



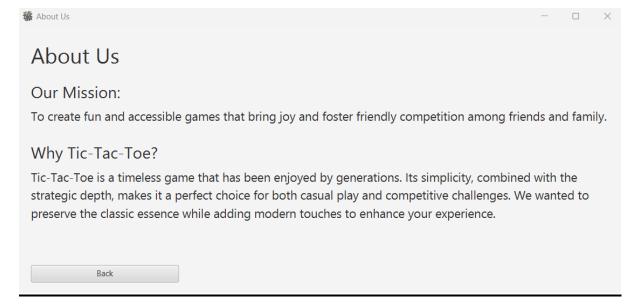
## Score board



How to play page



## Settings page



#### About us page

#### **UML Diagram**

