Tic-tac-toe App

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Content

01. Description

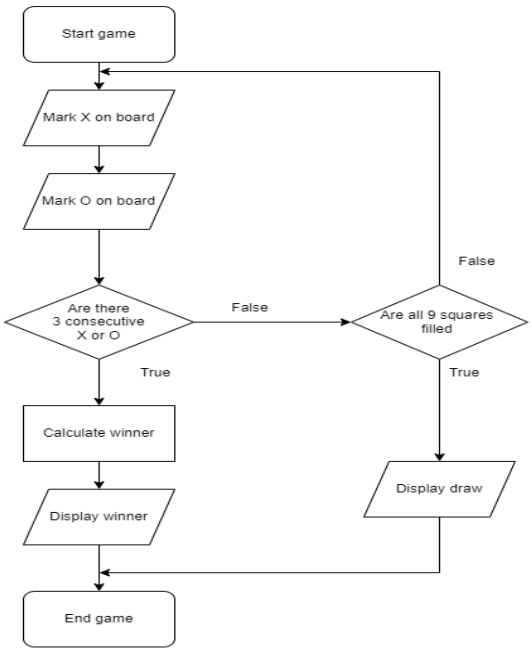
Technology: react.js

This is a simple web application developed using react.js to play the tic-tac-toe game. Two players can play in the game as X and O. Players can start the game by clicking on “Start game” button and go back to any previous moves by undoing the moves they made. Players can see the game’s final result at the top right near the board. As well as the game can be restarted at any point by simply clicking on “Start game” button. Players can see who makes the next move at the top right. After the game is over other remaining empty boxes cannot be marked and once a box is marked it can not be clicked again unless you undo to that move. There can be 3 statuses at the end of the game those are,

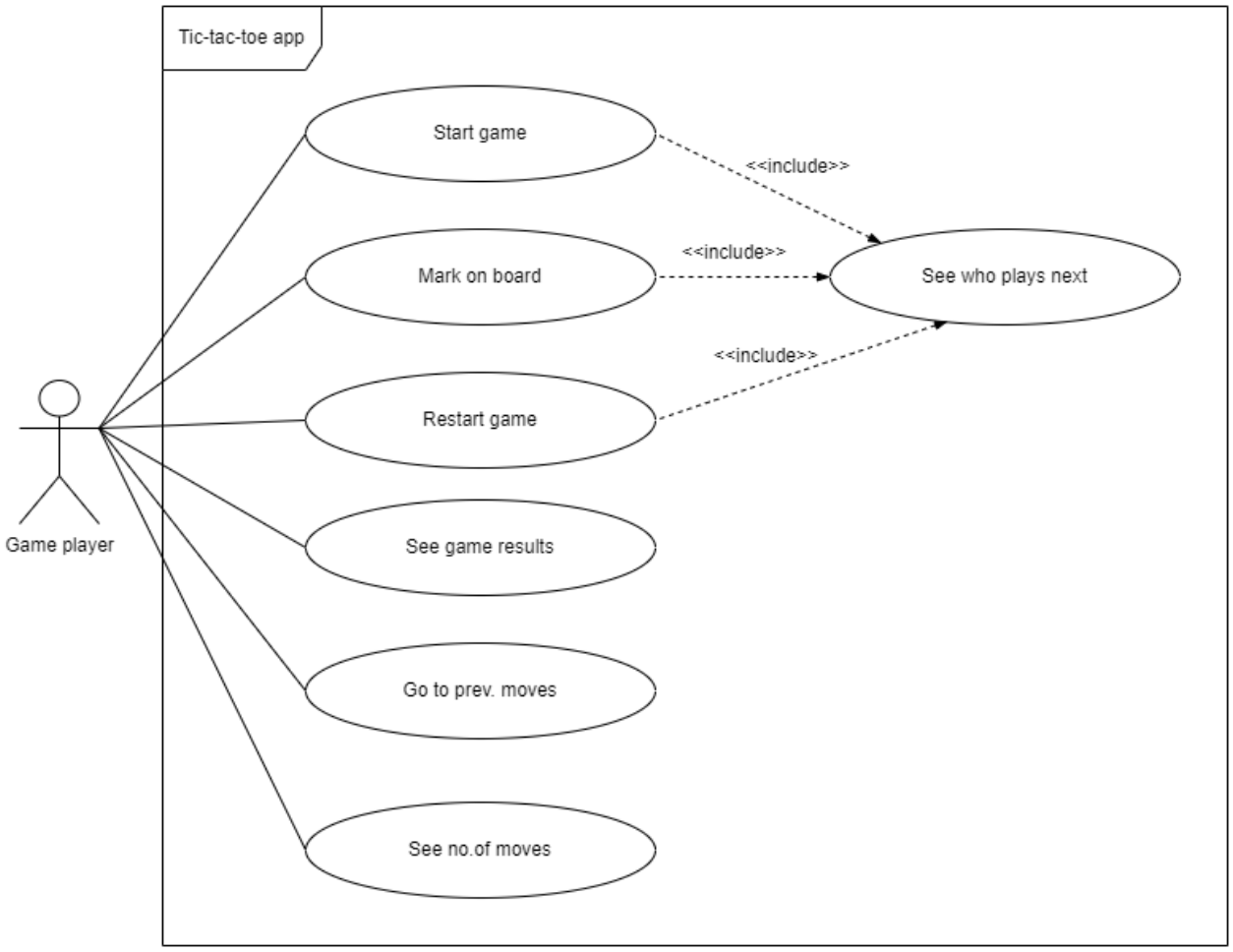
- X is the winner
- O is the winner
- Draw

Link to visit Tic-tac-toe app : https://sayuriKarunanayake.github.io/Tic-tac-toe-app/

02. Flowchart



03. Use case diagram

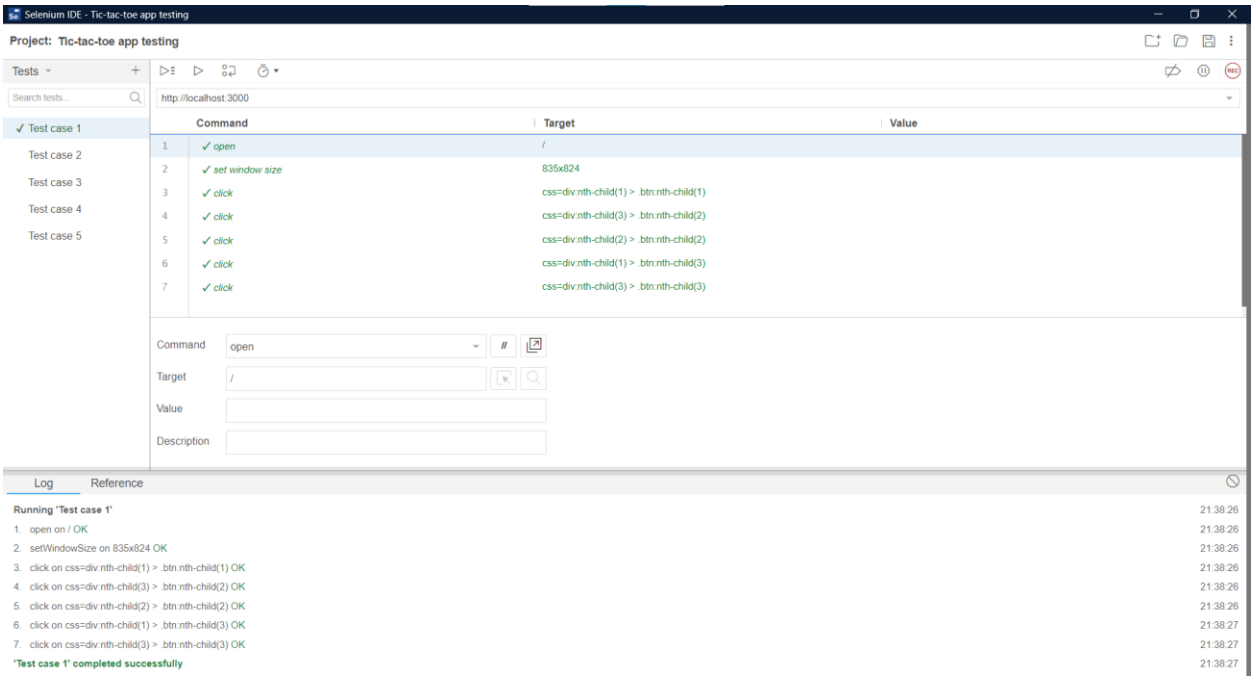


04. Test cases

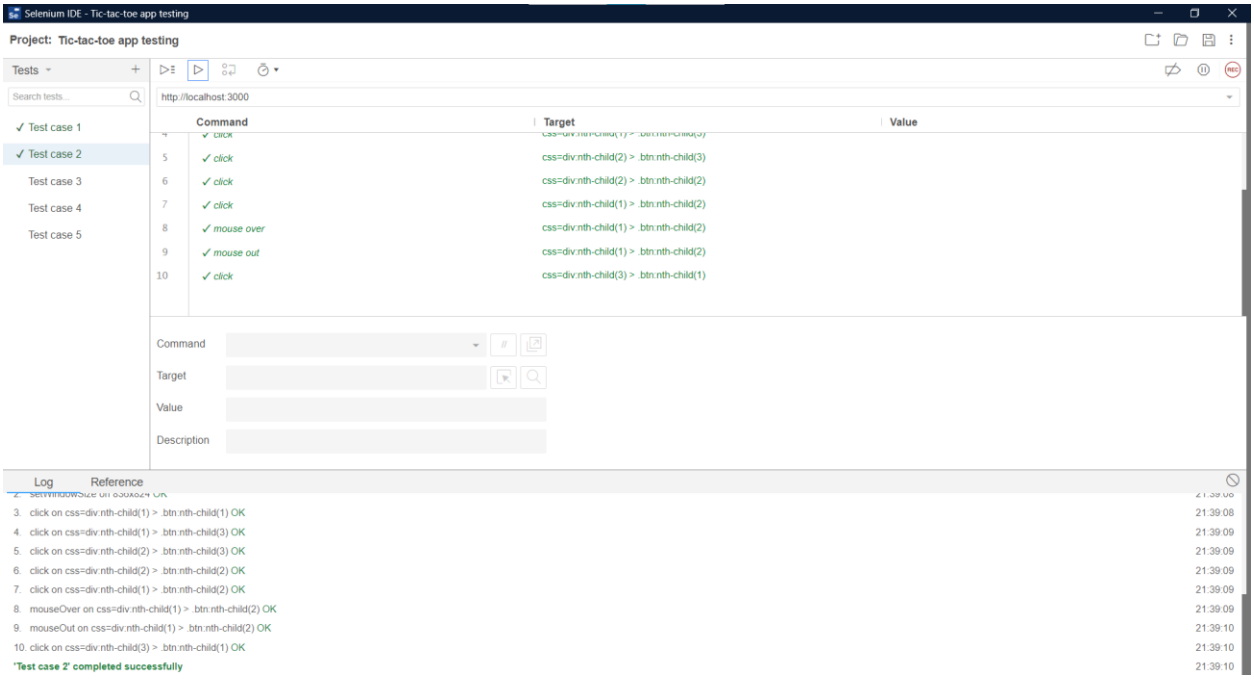
Test case ID	Description	Expected result	Status
1	X makes moves in order to align 3 X s in the grid	X wins	Success
2	O makes moves in order to align 3 O s in the grid	O wins	Success
3	Both players, X and O make moves without aligning 3 X s or 3 O s	Draw	Success
4	The game draws so players want to restart the game	Game restart when “Start game” clicked	Success
5	One player makes a wrong move mistakenly so wants to go back to the previous move	Go back to the previous move when that move is clicked	Success

05. Selenium automation testing results

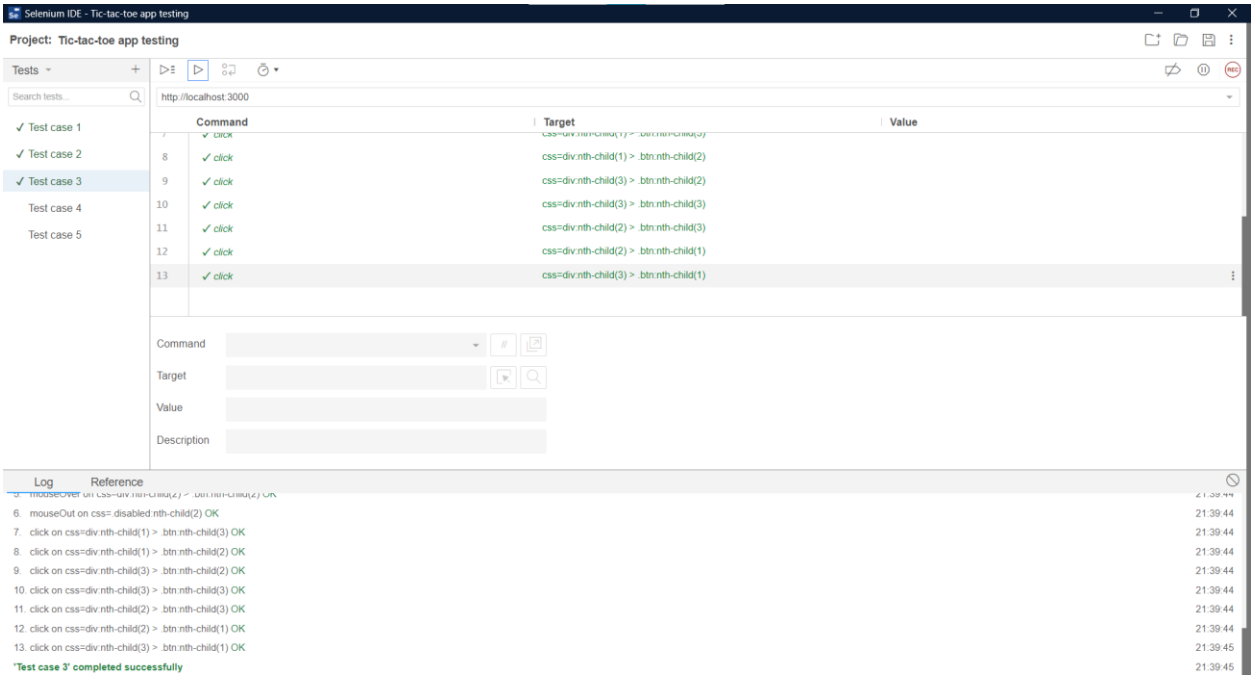
Test case 1



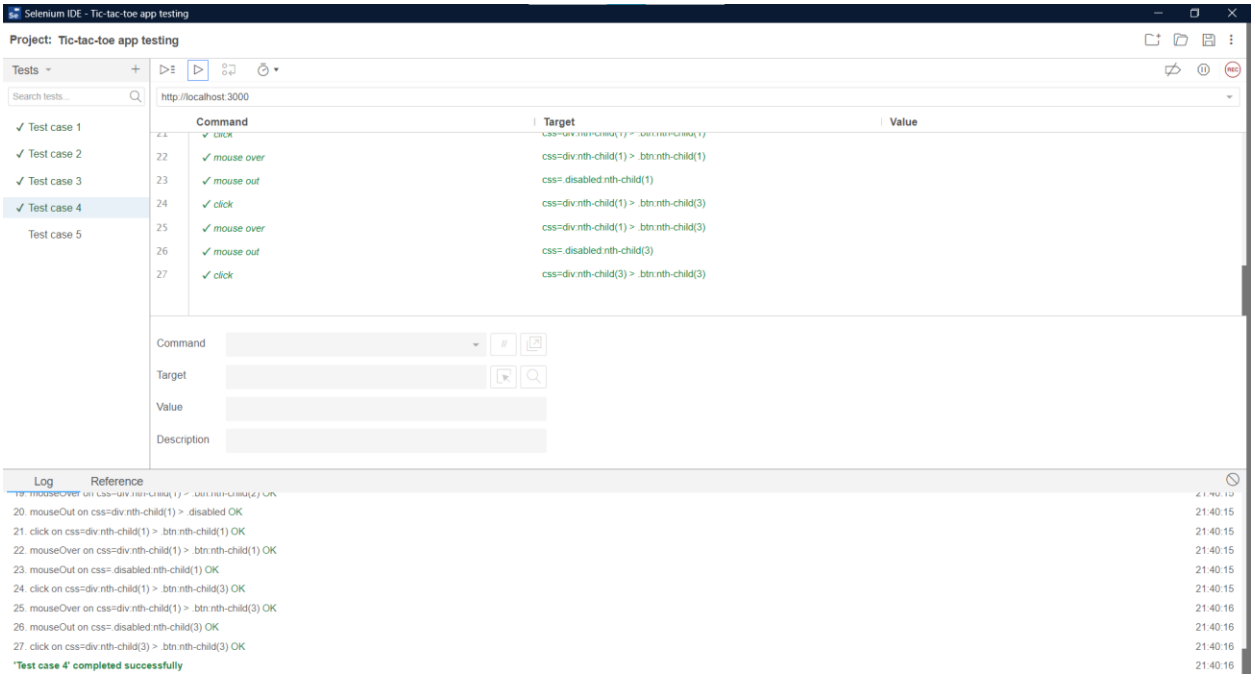
Test case 2



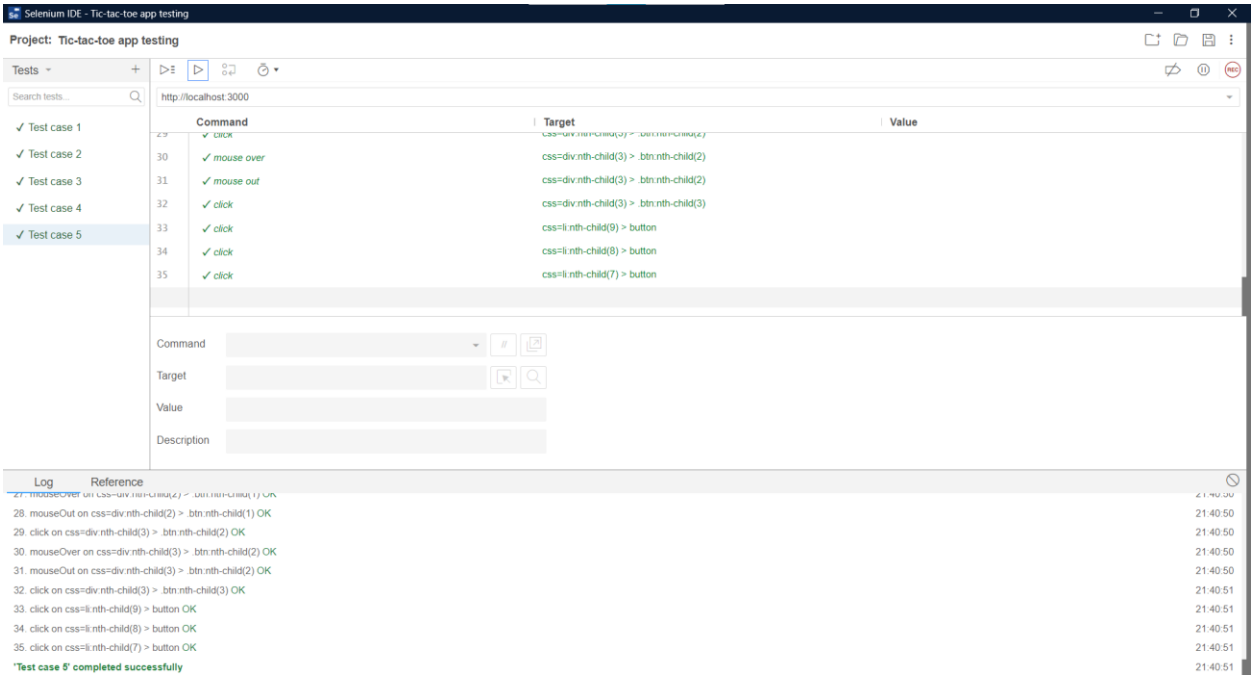
Test case 3



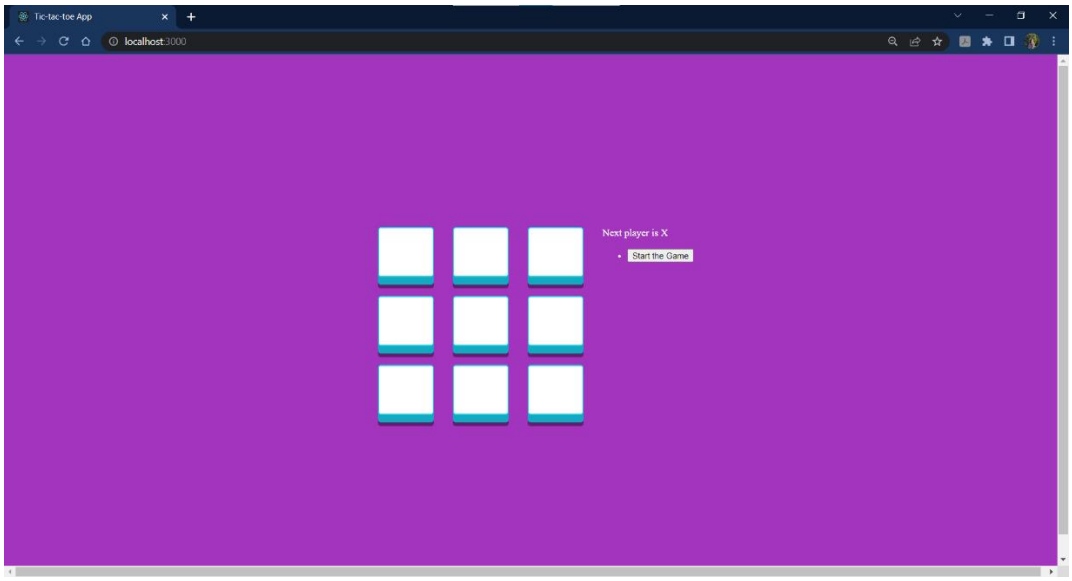
Test case 4

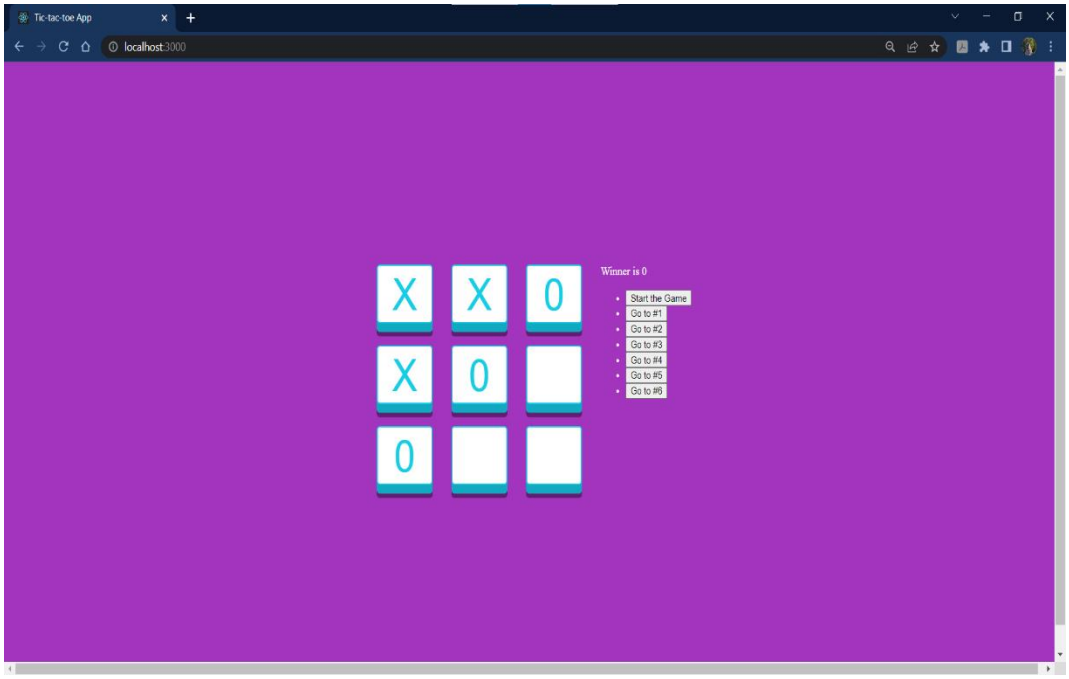


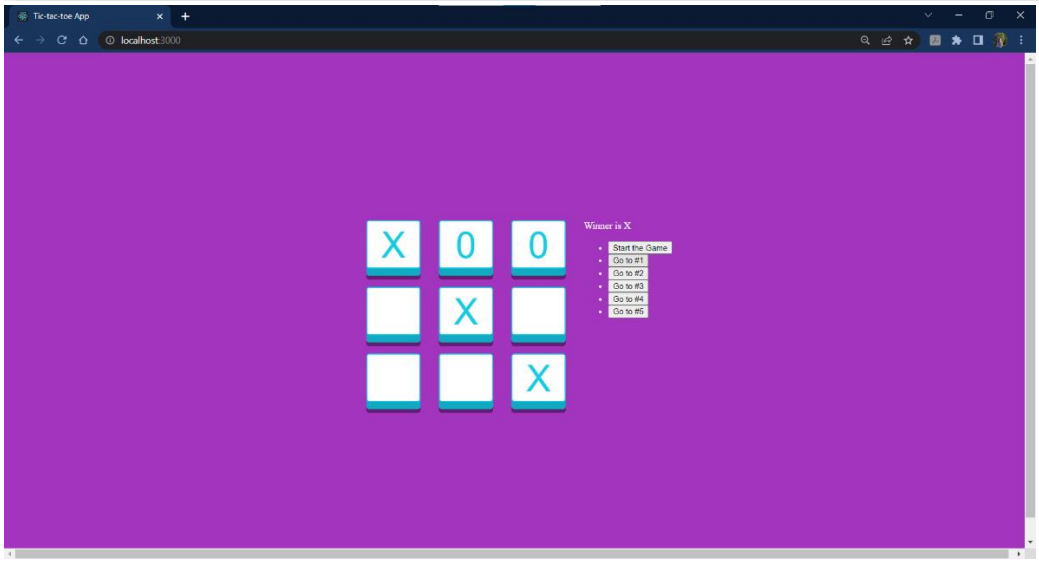
Test case 5

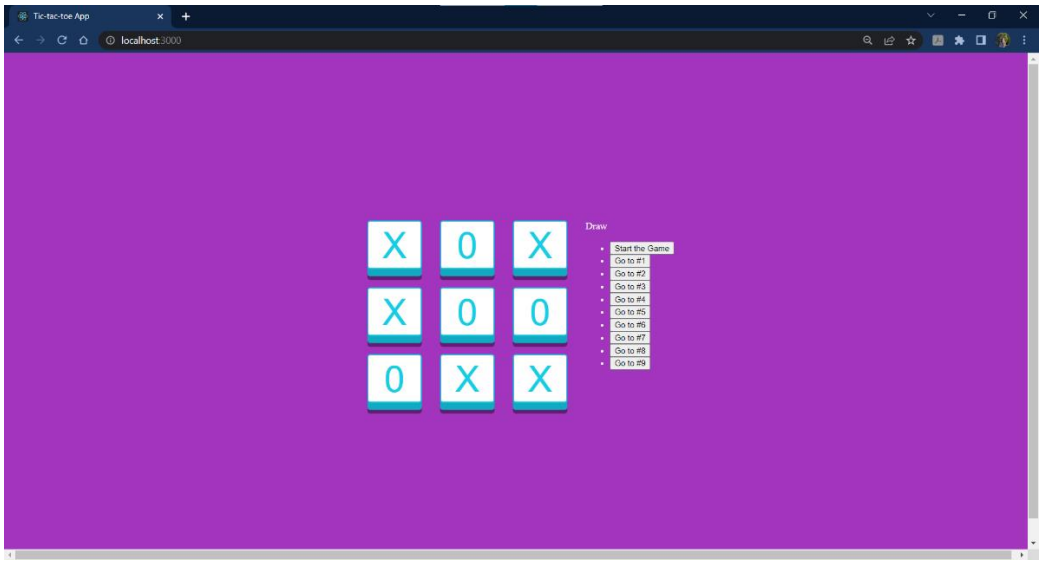


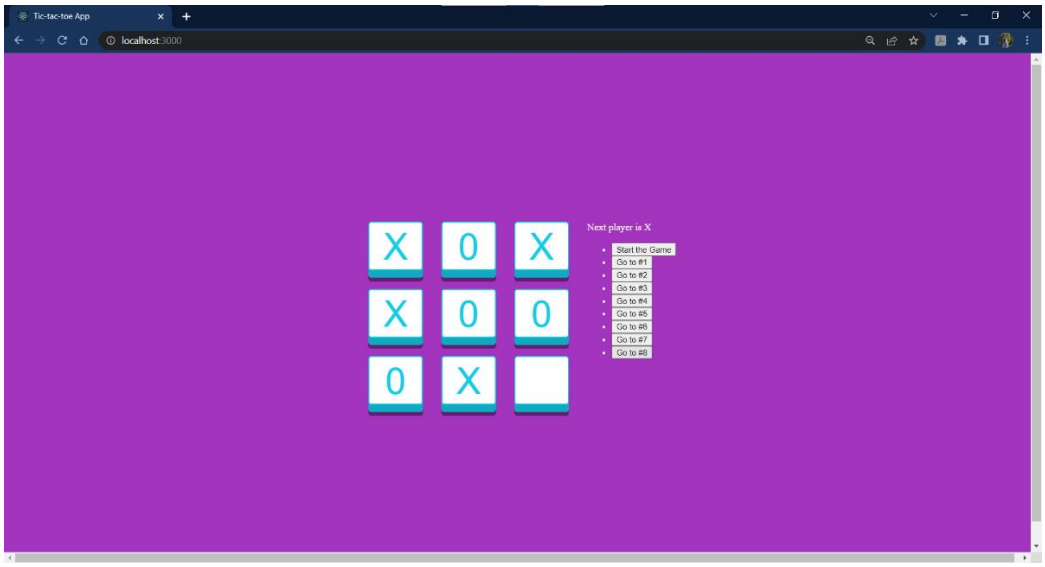
06. Screenshots of UI




Tic-tac-toe App
localhost:3000
X X 0
X 0
0
Winner is 0
Start the Game
Go to #1
Go to #2
Go to #3
Go to #4
Go to #5
Go to #6


Tic-tac-toe App
localhost:3000
X 0 0
X
X
Winner is X
Start the Game
Go to #1
Go to #2
Go to #3
Go to #4
Go to #5


Tic-tac-toe App
localhost:3000
X 0 X
X 0 0
0 X X
Draw
Start the Game
Go to #1
Go to #2
Go to #3
Go to #4
Go to #5
Go to #6
Go to #7
Go to #8
Go to #9


Tic-tac-toe App
localhost:3000
X 0 X
X 0 0
0 X
Next player is X
Start the Game
Go to #1
Go to #2
Go to #3
Go to #4
Go to #5
Go to #6
Go to #7
Go to #8