

# **Tic-tac-toe App**

## **Technical assignment**

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## 01. Description

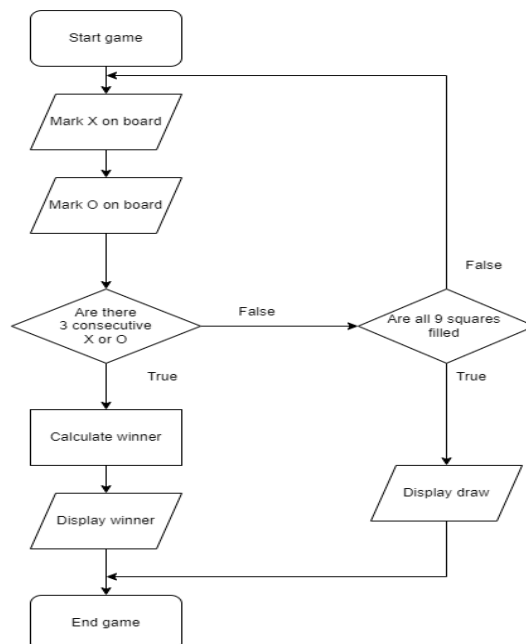
Technology: react.js

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,

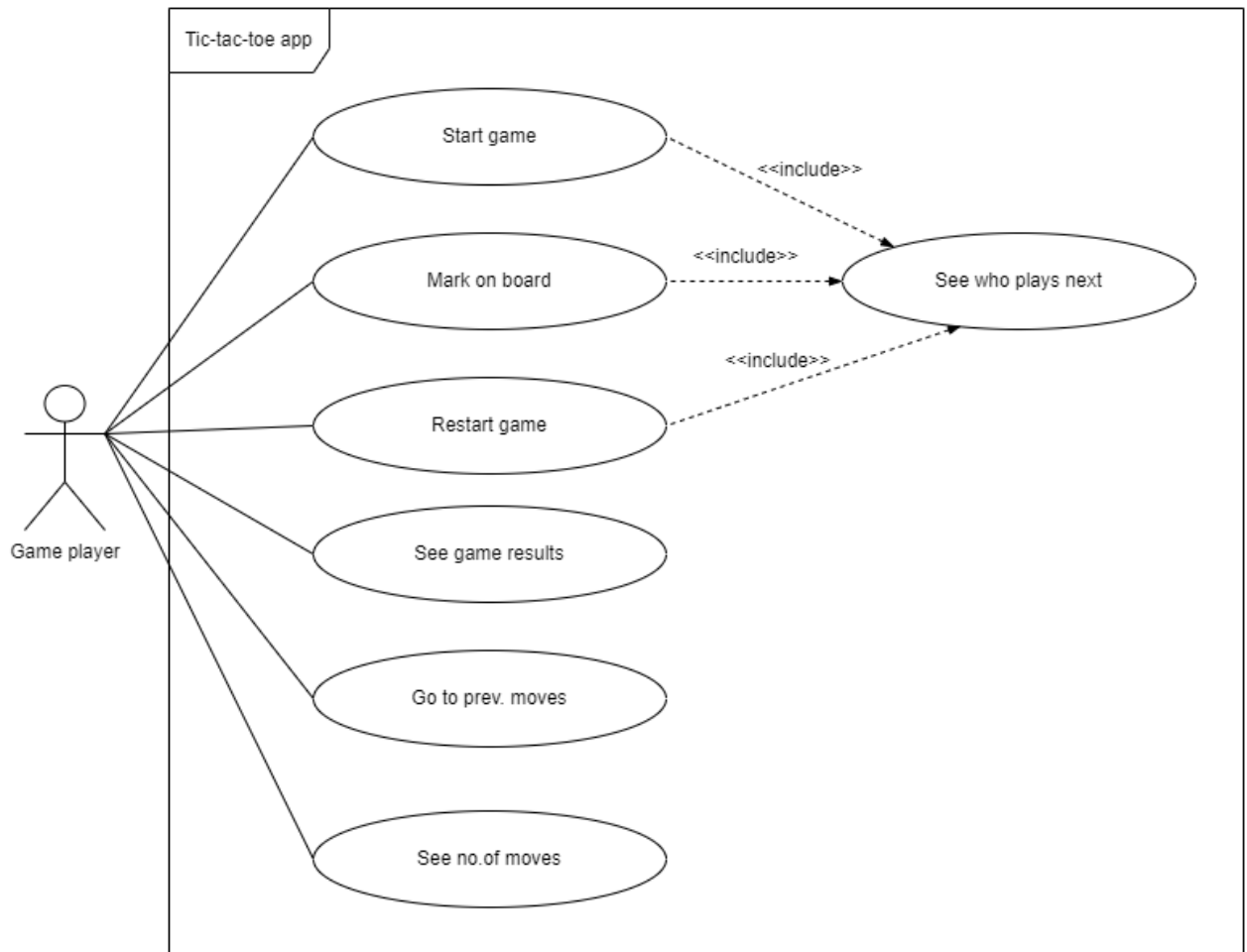
- X is the winner
- O is the winner
- Draw

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

The screenshot displays the Selenium IDE interface for 'Tic-tac-toe app testing'. The 'Tests' pane on the left shows 'Test case 1' as the active test. The main pane shows a table of commands and their targets for 'http://localhost:3000'.

Command	Target	Value
1. ✓ open	/	
2. ✓ set window size	835x824	
3. ✓ click	css=div:nth-child(1) > btn:nth-child(1)	
4. ✓ click	css=div:nth-child(3) > btn:nth-child(2)	
5. ✓ click	css=div:nth-child(2) > btn:nth-child(2)	
6. ✓ click	css=div:nth-child(1) > btn:nth-child(3)	
7. ✓ click	css=div:nth-child(3) > btn:nth-child(3)	

Below the table, the 'Command' field is set to 'open', 'Target' to '/', and 'Value' is empty. The 'Log' pane at the bottom shows the execution of these commands, all marked as 'OK', and concludes with 'Test case 1 completed successfully' at 21:38:27.

### Test case 2

The screenshot displays the Selenium IDE interface for 'Tic-tac-toe app testing'. The 'Tests' pane on the left shows 'Test case 2' as the active test. The main pane shows a table of commands and their targets for 'http://localhost:3000'.

Command	Target	Value
4. ✓ click	css=div:nth-child(1) > btn:nth-child(1)	
5. ✓ click	css=div:nth-child(2) > btn:nth-child(3)	
6. ✓ click	css=div:nth-child(2) > btn:nth-child(2)	
7. ✓ click	css=div:nth-child(1) > btn:nth-child(2)	
8. ✓ mouse over	css=div:nth-child(1) > btn:nth-child(2)	
9. ✓ mouse out	css=div:nth-child(1) > btn:nth-child(2)	
10. ✓ click	css=div:nth-child(3) > btn:nth-child(1)	

Below the table, the 'Command' field is empty, and 'Target', 'Value', and 'Description' fields are also empty. The 'Log' pane at the bottom shows the execution of these commands, all marked as 'OK', and concludes with 'Test case 2 completed successfully' at 21:39:10.

### Test case 3

Selenium IDE - Tic-tac-toe app testing

Project: Tic-tac-toe app testing

Tests: +

Search tests...

http://localhost:3000

Command	Target	Value
✓ click	css=div:nth-child(1) > btn:nth-child(2)	
✓ click	css=div:nth-child(1) > btn:nth-child(2)	
✓ click	css=div:nth-child(3) > btn:nth-child(2)	
✓ click	css=div:nth-child(3) > btn:nth-child(3)	
✓ click	css=div:nth-child(2) > btn:nth-child(3)	
✓ click	css=div:nth-child(2) > btn:nth-child(1)	
✓ click	css=div:nth-child(3) > btn:nth-child(1)	

Command: #

Target: [X] [Q]

Value:

Description:

Log Reference

19. mouseOver on css=div:nth-child(1) > btn:nth-child(2) OK 21:39:44

6. mouseOut on css=disabled:nth-child(2) OK 21:39:44

7. click on css=div:nth-child(1) > btn:nth-child(3) OK 21:39:44

8. click on css=div:nth-child(1) > btn:nth-child(2) OK 21:39:44

9. click on css=div:nth-child(3) > btn:nth-child(2) OK 21:39:44

10. click on css=div:nth-child(3) > btn:nth-child(3) OK 21:39:44

11. click on css=div:nth-child(2) > btn:nth-child(3) OK 21:39:44

12. click on css=div:nth-child(2) > btn:nth-child(1) OK 21:39:44

13. click on css=div:nth-child(3) > btn:nth-child(1) OK 21:39:45

\*Test case 3\* completed successfully 21:39:45

## Test case 4

Selenium IDE - Tic-tac-toe app testing

Project: Tic-tac-toe app testing

Tests: +

Search tests...

http://localhost:3000

Command	Target	Value
✓ click	css=div:nth-child(1) > btn:nth-child(1)	
✓ mouse over	css=div:nth-child(1) > btn:nth-child(1)	
✓ mouse out	css=disabled:nth-child(1)	
✓ click	css=div:nth-child(1) > btn:nth-child(3)	
✓ mouse over	css=div:nth-child(1) > btn:nth-child(3)	
✓ mouse out	css=disabled:nth-child(3)	
✓ click	css=div:nth-child(3) > btn:nth-child(3)	

Command: #

Target: [X] [Q]

Value:

Description:

Log Reference

19. mouseOver on css=div:nth-child(1) > btn:nth-child(2) OK 21:40:12

20. mouseOut on css=div:nth-child(1) > disabled OK 21:40:15

21. click on css=div:nth-child(1) > btn:nth-child(1) OK 21:40:15

22. mouseOver on css=div:nth-child(1) > btn:nth-child(1) OK 21:40:15

23. mouseOut on css=disabled:nth-child(1) OK 21:40:15

24. click on css=div:nth-child(1) > btn:nth-child(3) OK 21:40:15

25. mouseOver on css=div:nth-child(1) > btn:nth-child(3) OK 21:40:16

26. mouseOut on css=disabled:nth-child(3) OK 21:40:16

27. click on css=div:nth-child(3) > btn:nth-child(3) OK 21:40:16

\*Test case 4\* completed successfully 21:40:16

## Test case 5

Selenium IDE - Tic-tac-toe app testing

Project: Tic-tac-toe app testing

Tests +

Search tests...

Test case 1 ✓

Test case 2 ✓

Test case 3 ✓

Test case 4 ✓

Test case 5 ✓

Command

Target

Value

27 ✓ click

28 ✓ mouse over

31 ✓ mouse out

32 ✓ click

33 ✓ click

34 ✓ click

35 ✓ click

css=div:nth-child(3) > .btn:nth-child(1)

css=div:nth-child(3) > .btn:nth-child(2)

css=div:nth-child(3) > .btn:nth-child(2)

css=div:nth-child(3) > .btn:nth-child(3)

css=li:nth-child(9) > button

css=li:nth-child(8) > button

css=li:nth-child(7) > button

Command

Target

Value

Description

Log

Reference

27. mouseOver on css=div:nth-child(3) > .btn:nth-child(1) OK

28. mouseOut on css=div:nth-child(2) > .btn:nth-child(2) OK

29. click on css=div:nth-child(3) > .btn:nth-child(2) OK

30. mouseOver on css=div:nth-child(3) > .btn:nth-child(2) OK

31. mouseOut on css=div:nth-child(3) > .btn:nth-child(2) OK

32. click on css=div:nth-child(3) > .btn:nth-child(3) OK

33. click on css=li:nth-child(9) > button OK

34. click on css=li:nth-child(8) > button OK

35. click on css=li:nth-child(7) > button OK

\*Test case 5\* completed successfully

21:40:50

21:40:50

21:40:50

21:40:50

21:40:51

21:40:51

21:40:51

21:40:51

21:40:51

## 06. Screenshots of UI

