



Tic Tac Toe Plan

GameContext

- gameBoard- Array of 9 tiles ['X' , 'X' , 'O' , ...]
- currentPlayer ('X' or 'O')
- gamelsActive (true or false)
- gameMessage (says who's turn it is, who won or if its a cats game)

Components

- App.js
 - Calls gameBoard component
 - Checks for endGame() state on every render
 - Tie: All spaces are taken
 - Win/Lose: Player has 3 in a row
 - If endGame → set gamelsActive to false and update gameMessage
- GameBoard.js
 - Renders 9 tiles
- Tile.js
 - onClick → handleClick()
 - handleClick()
 - if space contains 'X' or 'O' → Return
 - if gamelsActive === false → Return
 - set tile's content to currentPlayer

- switch currentPlayer
- Reset.js
 - Button for resetting state
 - Reset currentPlayer to 'X'
 - update gameMessage

Steps

1. Declare state variables in GameContext.js
2. Initialize state values
 - a. Check → **import state in App.js and console.log it to make sure its all wired up correctly**
3. Create GameBoard and Tile components. GameBoard component reads gameBoard state from context and renders a Tile component for each value. Style a little.
 - a. Board displays on page and values of tiles change with gameBoard array values
4. Add onClick event for tile component that calls HandleClick() function from context.
 - a. consoleLog in HandleClick() function to make sure it's triggering
5. Define HandleClick() function.
 - a. Clicking on tiles should render X or O. Does nothing if gameIsActive state is false.
6. Create function to check for endGame conditions and trigger it on every render.
 - a. Game Works!
7. Reset Button
 - a. Reset works

Win Conditions:

3 in a row combinations:

1's: 1, 2, 3

2's: 4, 5, 6

3's: 7, 8, 9

a's: 1, 4, 7

b's: 2, 5, 8

c's: 3, 6, 9

diagonal 1: 1, 5, 9

diagonal 2: 3, 5, 7

turns before check needed: 5