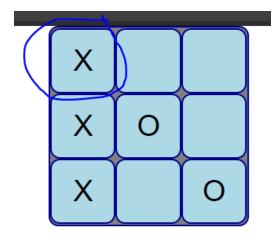
Folder Structure:

Create components folder in src folder.

Inside components folder, we will create these JS files.

Square.js

```
import React from 'react';
//Destructuring props
       onClick: () => "FUnction",
// const {value} = props;
const style ={
    background: 'lightblue',
    border: '2px solid darkblue',
    borderRadius: '10px',
    fontSize: '30px',
    cursor: 'pointer',
    outline: 'none'
// <Square key={i} value={square} onClick={() => onClick(i)} />
const Square = ({value,onClick}) => (
    <button
     style={style}
     onClick { onClick }
    {value}
    </button>
export default Square;
```



Board.js

```
import React from 'react';
import Square from './Square';
const style ={
    background:'gray',
    border: '2px solid darkblue',
    borderRadius: '10px',
    margin: '0 auto',
    height: '200px',
    width: '200px',
    display: 'grid',
    //for cube layout
    gridTemplate: 'repeat(3, 1fr) / repeat(3, 1fr)'
{/* IN GAME.js
<Board squares={board} onClick={handleClick} />
*/}
const Board = ({squares,onClick}) => (
    <div style={style}>
    {squares.map((square,i) => (
        <Square
        key={i}
        value={square}
        onClick={() => onClick(i)} />
    ))}
    </div>
    );
export default Board;
```

.map le chai iterative ma square haru banauxa

Game.js

```
import React, {useState} from 'react';
import Board from './Board';
import calculateWinner from '../calculateWinner';
const style ={
    marginLeft: '700px',
    marginTop: '20px'
const Game = () => {
   const [board, setBoard] = useState(Array(9).fill(null));
    //destructuring above state
   // board[0]
   // board[1]
    const [xIsNext, setXisNext] = useState(true);
    const winner = calculateWinner(board);
    const handleClick = (i) =>{
        //copying board state. immutable
        const boardCopy = [...board];
        //if user click on occupied square or if game is won, return
        if( winner || boardCopy[i] ) return; //yedi winner vayeskayo ya lekhisake
ko square ma click garyo vane nothing return
        //put an x or an o in the clicked square
        boardCopy[i] = xIsNext ? 'X' : '0'; //i = kun square ho vanera
        //yedi square[1] ma click garyo vane X dine state true cha vane natra O
        setBoard(boardCopy);
```

FINAL

Game.js

```
import React,{useState} from 'react';
import Board from './Board';
import calculateWinner from '../calculateWinner';

const style ={
    marginLeft: '700px',
    marginTop: '20px'
}

const Game = () => {
    const [history, setHistory] = useState([Array(9).fill(null)]); //array ne arr
ay banaunu parxa... past moves haru rakhna ko lagi
    const [stepNumer, setStepNumber] = useState(0); //acutal step in an above arr
av created
```

```
const [xIsNext, setXisNext] = useState(true);
   const winner = calculateWinner(history[stepNumer]);//sending most recent step
number of history
   const handleClick = (i) =>{
       //slicing out the history we don't need because we are jumping from one t
o another
       //completly wiping out the steps we are actual on
       //slicing from 0 to stepnumber +1(ie current step)
       const timeInHistory = history.slice(0,stepNumer + 1);
       const current = timeInHistory[stepNumer];//most current move
       const squares = [...current] //clone of state that we are going to mutuat
       //copying board state. immutable
       // const boardCopy = [...board];
       //if user click on occupied square or if game is won, return
       if( winner | squares[i] ) return; //yedi winner vayeskayo ya lekhisakeko
square ma click garyo vane nothing return
       //put an x or an o in the clicked square
       squares[i] = xIsNext ? 'X' : '0'; //i = kun square ho vanera
       //yedi square[1] ma click garyo vane X dine state true cha vane natra O
       setHistory([...timeInHistory, squares])
       //...timeInHistory = we want keep this state
       setStepNumber(timeInHistory.length);
       //it will give new state number beacuse it will add one array here and le
ngth will increase by one and give new stepnumber
       setXisNext(!xIsNext);
   const jumpTo = (step) => {
       setStepNumber(step);
       setXisNext(step % 2 ===0 );
       const renderMoves = history.map(( step, move) => {
           //render out button for moving back and forward
           const destination = move ? `move #${move}` : "Go to start";
           console.log(destination);
           return (
```