

src\App.jsx

```

1 // src/components/Home.js
2 import React, { useState } from 'react';
3 import { Stage, Layer, Circle, Line } from 'react-konva';
4 import { Button, Modal, Form } from 'react-bootstrap';
5 import { v4 as uuidv4 } from 'uuid';
6
7 function Home() {
8   const [nodes, setNodes] = useState([]);
9   const [lines, setLines] = useState([]);
10  const [selectedNode, setSelectedNode] = useState(null);
11  const [showModal, setShowModal] = useState(false);
12  const [nodeTitle, setNodeTitle] = useState("");
13
14  const addNode = () => {
15    const newNode = {
16      x: Math.random() * window.innerWidth * 0.5,
17      y: Math.random() * window.innerHeight * 0.5,
18      id: uuidv4(),
19      title: "",
20    };
21    setNodes([...nodes, newNode]);
22  };
23
24  const handleNodeClick = (node) => {
25    setSelectedNode(node);
26    setShowModal(true);
27  };
28
29  const saveNodeTitle = () => {
30    const updatedNodes = nodes.map(n => n.id === selectedNode.id ? { ...n, title:
nodeTitle } : n);
31    setNodes(updatedNodes);
32    setShowModal(false);
33  };
34
35  const onMouseEnterNode = (e) => {
36    const node = e.target;
37    node.stroke('red');
38    node.getStage().draw();
39  };
40
41  const onMouseLeaveNode = (e) => {
42    const node = e.target;
43    node.stroke('black');
44    node.getStage().draw();
45  };
46
47  return (
48    <>
49      <Button onClick={addNode} style={{ position: 'absolute', left: 20, top: 20 }}>
Create Node</Button>
50      <Stage width={window.innerWidth} height={window.innerHeight}>
51        <Layer>
52          {nodes.map(node => (
53            <Circle
54              key={node.id}
55              x={node.x}

```

```
56         y={node.y}
57         radius={30}
58         fill="lightblue"
59         stroke="black"
60         strokeWidth={4}
61         draggable
62         onClick={() => handleNodeClick(node)}
63         onMouseEnter={onMouseEnterNode}
64         onMouseLeave={onMouseLeaveNode}
65     />
66   )))
67 </Layer>
68 </Stage>
69 <Modal show={showModal} onHide={() => setShowModal(false)}>
70   <Modal.Header closeButton>
71     <Modal.Title>Edit Node</Modal.Title>
72   </Modal.Header>
73   <Modal.Body>
74     <Form>
75       <Form.Group>
76         <Form.Label>Node Title</Form.Label>
77         <Form.Control
78           type="text"
79           placeholder="Enter node title"
80           value={nodeTitle}
81           onChange={e => setNodeTitle(e.target.value)}
82         />
83       </Form.Group>
84     </Form>
85   </Modal.Body>
86   <Modal.Footer>
87     <Button variant="secondary" onClick={() => setShowModal(false)}>
88       Close
89     </Button>
90     <Button variant="primary" onClick={saveNodeTitle}>
91       Save Changes
92     </Button>
93   </Modal.Footer>
94 </Modal>
95 </>
96   );
97 }
98
99 export default Home;
100
```