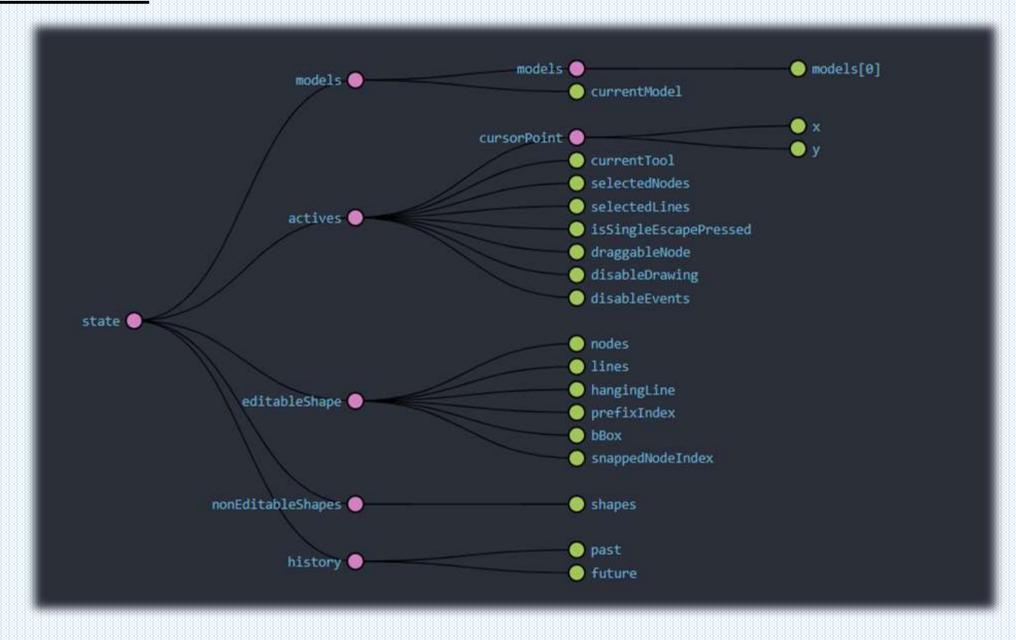
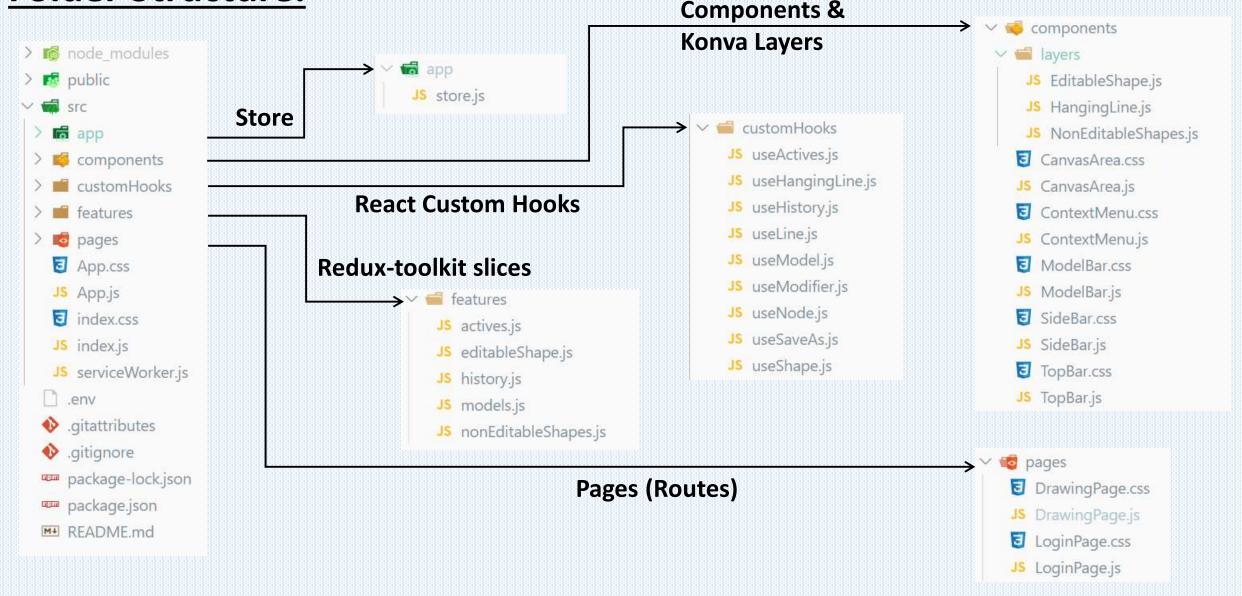
## **Store Structure:**



### **Folder Structure:**



#### **File Control Flow: Redux Store** index.js **State** App.js useActives **Routes** LoginPage.js DrawingPage.js useHangingLine useHistory TopBar.js ModelBar.js CanvasArea.js SideBar.js **Components** useLine useModel useModifier **Konva Stage Konva Wrapper** useNode useShape Hanging **NonEditable Editable** useSaveAs **Konva Layers** Line **Shapes** Shape

custom hooks

# Files & their uses:

**App.js** --> Used for Routing.

**LoginPage.js** --> Used for Logging an user in.

**DrawingPage.js** --> Contains TopBar, ModelBar, CanvasArea and Sidebar as it's components. This file also listens to alphabets click on keyboard and changes tools based on P or V key is pressed. This file communicates with useActives custom hook to do these tasks.

**TopBar.js** --> This will contain name of our application and also a Search bar.

**ModelBar.js** --> This will have our model names and functionality to add, remove and rename our models. This will also load model data from the models slice (reducer) and populates it into other slices(reducers). This file communicates with useModel custom hook to do these tasks.

**SideBar.js** --> This file shows us on which mode are we in. This will also have buttons to reset everything in the current model, to save drawings present in the current model in PDF / PNG / JPEG Format. This file communicates with useHistory, useActives and useSaveAs custom hooks to do these tasks.

CanvasArea.js --> This file listens to combined events like ctrl + z / ctrl + y, to key presses like Escape, Delete, Shift, Control and Mouse Clicks. This file uses useNode, useHangingLine, useHistory, useShape and useModifier custom hooks to do the tasks like node, line, hangingLine creation, node dragging, node deletion and converting line to curve or curve to line.

# **Custom hooks & their uses:**

**useActives**: This hook contains changeTool function. This is used to change our tool.

**useHangingLine**: This hook contains createHangingLine and updateHangingLineData fnctions. This is used to create hanging lines and update its co-ordinates during undo, redo actions.

**useHistory**: This hook contains undo, redo, reset and updateHistory functions. This is used to do undo / redo task, to reset the current model and to create a copy of old data when an event is called, this helps in undo / redo.

**useLine**: This hook contains createLine and updateLine functions. It is used to create a line and also to update lines data when an individual line is dragged.

**useModel**: This hook contains updateModelData, updateModelDataOnAdd and fetchModelData functions. These are used to create new models, add current canvas data to old model and fetch new data from selected model and update that onto current canvas.

**useModifier**: This hook contains lineToCurve, curveToLine, updateControlNode and changeToEditableShape functions. These are used to convert a line into a curve or curve into a line, update curve on dragging control nodes and changing a non editable shape back to editable shape when double click is made on the shape.

**useNode**: This hook contains createNode, updateNode and deleteNode functions. These are used to create a node, delete a node and update a node's co-ordinates when dragged.

**useSaveAs**: This hook contains savePdf, savePng and saveJPG functions. These are used to save drawing onto our system in PDF / PNG/ JPEG format.

**useShape**: This hook contains createPath, createBBox and addToShapes functions. These are used to create a ghost path on snapped shape, create a bBox on editable shape and to transfer snapped shape data from editableShape to nonEditableShapes.