\*\*\* Server side rendering \*\*\*

(1)Create new App

(2)Some changes for SSR

(3)Install some npm package

(4)write some code for server

(5)Make build test server side rendering

<https://github.com/anil-sidhu/react-ssr-with-routing#install-expree-with-below-command->

open src>>index.js file and paste below code

ReactDOM.hydrate(                //  replaced hydrate instead of render

  <React.StrictMode>

    <App />

  </React.StrictMode>,

  document.getElementById('root')

);

Instead of

ReactDOM.render(                //  replaced hydrate instead of render

  <React.StrictMode>

    <App />

  </React.StrictMode>,

  document.getElementById('root')

);

Than open terminal in visual studio and run below 2 command one by one aside folder location:

**npm install express**

**npm install @babel/register @babel/preset-env @babel/preset-react ignore-styles**

create new folder with in ‘**myapp’** folder by clicking on + symbol of right side and put name ‘**server’** ,

than create 2 file with in ‘**server’** folder first is **index.js** and second is **server.js**

**open** server.js file and paste below code:

import path from 'path'

import fs from 'fs'

import express from 'express'

import React from 'react'

import ReactDOMServer from 'react-dom/server'

import App from '../src/App'

const PORT = 8080 //we will take any port no.

const app = express()

const router = express.Router()

const serverRenderer = (req, res, next) => {

fs.readFile(path.resolve('./build/index.html'), 'utf8', (err, data) => {

if (err) {

console.error(err)

return res.status(500).send('An error occurred')

}

return res.send(

data.replace(

'<div id="root"></div>',

`<div id="root">${ReactDOMServer.renderToString(<App />)}</div>`

)

)

})

}

router.use('^/$', serverRenderer)

router.use(

express.static(path.resolve(\_\_dirname, '..', 'build'), { maxAge: '30d' })

)

// tell the app to use the above rules

app.use(router)

// app.use(express.static('./build'))

app.listen(PORT, () => {

console.log(`SSR running on port ${PORT}`)

})

Open index.js file and paste below code:

require('ignore-styles')

require('@babel/register')({

ignore: [/(node\_modules)/],

presets: ['@babel/preset-env', '@babel/preset-react']

})

require('./server')

than run below command on terminal aside folder location:

**npm run build**

it will generate a new file (project folder)>>build>>index.html (new generated file)

than run below command:

**node server/index.js**

than open **localhost:8080** on browser (because we are mentioned port no. 8080 ,we can change it)

this is our SSR file because data are showing in <div id=”root”></div> we can also check by ctrl+u