<https://www.youtube.com/watch?v=5PfvoAj-SMk> 40:50

(1)To create project:

**npx create-react-app** reactmaterialcrudapi

(2)To install router with in project:

**npm i react-router-dom**

(3)To install json server:

**npm i json-server**

**or**

**npm install -g json-server [globally it is best]**

(4)

**npm install @material-ui/core**

**npm install @material-ui/icons**

(5) To access api:

**npm install axios**

**==========================================================================================**

create **db.json** file with in **src** folder and put below code:

{

“students”:[

{ “id”:1, “stuname”:”sonam1”, “email”:”sonam1@gmail.com”} ,

{ “id”:2, “stuname”:”sonam2”, “email”:”sonam2@gmail.com”} ,

{ “id”:3, “stuname”:”sonam3”, “email”:”sonam3@gmail.com”} ,

]

}

To start json server (run db.json file) put below command on terminal

**json-server - - watch db.json - -port 3333**

**with in src folder:**

Remove:

App.css, App.test.js, index.css, logo.svg, repportWebVitals.js, setusTests.js,

**With in App.js file:**

Remove:

import logo from ‘./logo.svg’

import ‘./App.css’

Predefined tags

**With in index.js file:**

Remove:

import ‘./index.css’

import ‘repportWebVitals’ from ‘./repportWebVitals’;

<React.StrictMode> tag

In App.js file

Add

**import { BrowserRouter, Switch, Route } from ‘react-router-dom’;**

**import Home from ‘./components/pages/Home’;**

**import View from ‘./components/student/View;**

**import Edit from ‘./components/student/Edit;**

than put below code instead of App() function:

function App()

{

return(

<>

<BrowserRouter>

<Switch>

<Route exact path=”/” component={Home} />

<Route exact path=”/view/1” component={View} />

<Route exact path=”/edit/1” component={Edit} />

</Switch>

</BrowserRouter>

</>

)

}

Create one folder name of **components** with in **src** folder, than again create one folder name of **pages** with in **components** folder,

Create a component name of **Home.js** with in pages folder. ( in Home.js file type **rafce** than press enter to get default code )

Open Home.js file and type below code:

import React from ‘react’

import { Typography, Box, makeStyles, Grid, TextField, Button} from “@material-ui/core”;

import {deepPurple, green } from “@material-ui/core/colors”;

import List from “../student/List”;

const useStyles = makeStyles

({

headingColor: { backgroundColor:deepPurple[100], color:”white” },

addStuColor:{ backgroundColor:green[400], color:”white” }

})

const Home=()=>

{

const classes = useStyles();

return

(

<>

<Box textAlign=”center” className = { classes.headingColor } p={2} mb={2}>

<Typography variant=”h2”>React CRUD with API Call</Typography>

</Box>

<Grid container justify=”center” spacing={4} >

<Grid item md={6} xs={12}>

<Box textAlign=”center” p={2} className={classes.addStuColor} mb={2}>

<Typography variant=”h4”> Add Student </Typography>

</Box>

<form noValidate>

<Grid container spacing={2}>

<Grid item xs={12}>

<TextField autoComplete=”stuname” name=”stuname” variant=”outlined” required fullwidth id=”stuname” Label=”Name” />

</Grid>

<Grid item xs={12}>

<TextField autoComplete=”email” name=”email” variant=”outlined” required fullwidth id=”email” Label=”Email Address” />

</Grid>

</Grid>

<Box m={3}>

<Button type=”submit” variant=”contained” color:”primary” fullWidth> Add </Button>

</Box>

</form>

</Grid>

<Grid item md={6} xs={12}>

</List>

</Grid>

</Grid>

</>

)

}

export default Home

Again create one folder name of **student** with in **components** folder,

Create a component name of **View.js** with in student folder. ( in View.js file type **rafce** than press enter to get default code )

Open View.js file and type below code:

import React from ’react’

import { Typography, Box, makeStyles, TableContainer, Table, TableBody, TableCell, TableHead, TableRow, Paper, Button } from “@material-ui/core”;

import {Orange} from “@material-ui/core/colors”;

const useStyles = makeStyles

({

stuListColor:{ backgroundColor:orange[400], color:”white” },

tableHeadCell:{ color:”white”, fontweight:”bold”, fontSize:16 },

})

const View = () =>

{

const classes = useStyles();

return(

<>

<Box textAlign=”center” p={2} className={classes.stuListColor >

<Typography variant=”h4”> Student Details</Typography>

</Box>

<TableContainer component={Paper}>

<Table>

<TableHead>

<TableRow style={{ backgroundColor: “#616161” }}>

<TableCell align=”center” className={classes.tableHeadCell}> ID </TableCell>

<TableCell align=”center” className={classes.tableHeadCell}> Name </TableCell>

<TableCell align=”center” className={classes.tableHeadCell}> Email </TableCell>

</TableRow>

</TableHead>

<TableBody>

<TableRow>

<TableCell align=”center” > 1 </TableCell>

<TableCell align=”center” > sonam </TableCell>

<TableCell align=”center” > sonam@example.com </TableCell>

</TableRow>

</TableBody>

</Table>

</TableContainer>

<Box m={3} textAlign=”center”>

<Button variant=”contained” color=”primary”>Back to Home</Button>

</Box>

</>

)

}

export default View

Again create a component name of **Edit.js** with in student folder. ( in Edit.js file type **rafce** than press enter to get default code )

Open Edit.js file and type below code:

import React from ’react’

import { Typography, Box, makeStyles, Grid, TextField, Button } from “@material-ui/core”;

import {deepPurple, green} from “@material-ui/core/colors”;

const useStyles = makeStyles

({

headingColor:{ backgroundColor:deepPurple[400], color:”white” },

addStuColor:{ color:”white”, backgroundColor:green[400] }

})

const Edit = () =>

{

const classes = useStyles();

return

(

<>

<Box textAlign=”center” className = { classes.headingColor } p={2} mb={2}>

<Typography variant=”h2”>React CRUD with API Call</Typography>

</Box>

<Grid container justify=”center” spacing={4} >

<Grid item md={6} xs={12}>

<Box textAlign=”center” p={2} className={classes.addStuColor} mb={2}>

<Typography variant=”h4”> Edit Student </Typography>

</Box>

<form noValidate>

<Grid container spacing={2}>

<Grid item xs={12} sm={6}>

<TextField autoComplete=”id” name=”id” variant=”outlined” required fullwidth id=”id” Label=”ID” autoFocus value=”1” disabled />

</Grid>

<Grid item xs={12} sm={6}>

<TextField autoComplete=”stuname” name=”stuname” variant=”outlined” required fullwidth id=”stuname” Label=”Name” value=”Sonum” />

</Grid>

<Grid item xs={12} sm={6}>

<TextField autoComplete=”email” name=”email” variant=”outlined” required fullwidth id=”email” Label=”Email Address” value=”Sonum@gmail.com” />

</Grid>

</Grid>

<Box m={3}>

<Button type=”button” variant=”contained” color:”primary” fullWidth> Update </Button>

</Box>

</form>

<Box m={3} textAlign=”center”>

<Button variant=”contained” color=”primary”>Back to Home</Button>

</Box>

</Grid>

</Grid>

</>

)

)

}

export default Edit

Again create a component name of **List.js** with in student folder. ( in List.js file type **rafce** than press enter to get default code )

Open List.js file and type below code:

Import React from ‘react’

import { Typography, Box, makeStyles, TableContainer, Table, TableBody, TableCell, TableHead, TableRow, Paper, IconButton, Tooltip } from “@material-ui/core”;

import {Orange} from “@material-ui/core/colors”;

import VisibilityIcon from “@material-ui/icons/Visibility”;

import EditIcon from “@material-ui/icons/Edit”;

import DeleteIcon from “@material-ui/icons/Delete”;

import { Link } from “react-router-dom”;

const useStyles = makeStyles

({

stuListColor:{ backgroundColor:orange[400], color:”white” },

tableHeadCell:{ color:”white”, fontweight:”bold”, fontSize:16 },

})

const List = () =>

{

const classes = useStyles();

return(

<>

<Box textAlign=”center” p={2} className={classes.stuListColor >

<Typography variant=”h4”> Student List</Typography>

</Box>

<TableContainer component={Paper}>

<Table>

<TableHead>

<TableRow style={{ backgroundColor: “#616161” }}>

<TableCell align=”center” className={classes.tableHeadCell}> No </TableCell>

<TableCell align=”center” className={classes.tableHeadCell}> Name </TableCell>

<TableCell align=”center” className={classes.tableHeadCell}> Email </TableCell>

<TableCell align=”center” className={classes.tableHeadCell}> Action </TableCell> </TableRow>

</TableHead>

<TableBody>

<TableRow>

<TableCell align=”center” > 1 </TableCell>

<TableCell align=”center” > sonam </TableCell>

<TableCell align=”center” > sonam@example.com </TableCell>

<TableCell align=”center” >

<Tooltip title=”View”>

<IconButton>

<Link to=”/view/1”> <VisibilityIcon color=”primary” /> </Link>

</IconButton>

</Tooltip>

<Tooltip title=”Edit”>

<IconButton>

<Link to=”/edit/1”> <EditIcon /> </Link>

</IconButton>

</Tooltip>

<Tooltip title=”Delete”>

<IconButton>

<DeleteIcon color=”secondary” />

</IconButton>

</Tooltip>

</TableCell>

</TableRow>

</TableBody>

</Table>

</TableContainer>

</>

)

}

export default List