Implementing a REST API using Node.Js, React.JS, and MySQL.

1. Download Node.Js compatible with your device via the [installer](https://nodejs.org/en/download/) (Copy installer to local drive before downloading Node).
2. Download MySQL workbench relative to your O.S [here.](https://dev.mysql.com/downloads/workbench/)
3. C:\>mkdir CRUD-APPLICATION (create project main folder in C:\ directory).
4. C:\>CRUD-APPLICATION mkdir client server (create folders client and server in main folder).

->We will manage our frontend in client folder and backend in server folder.

1. C:\client>npx create-react-app . (Creating React app in client folder, notice “.” separated by space at the end).
2. C:\client>dir (To check added resources, Then cd to “src” folder in client folder)
3. C:\client\src>del app.test.js index.css logo.svg setupTest.js serviceWorker.js (del unwanted files)

->Note that file serviceWorker.Js might be named differently-> C:\client\src>dir to check name.

1. C:\client\src>npm install axios (Read about axios [here](https://axios-http.com/)).
2. C:\ client\src> notepad App.js (Replace original code with the one given in the folder).
3. C:\ client\src> notepad App.css (Replace original code with the one given in the folder).
4. C:\ client\src> notepad index.js (Replace original code with the one given in the folder).

Open another CMD:

1. C:\CRUD-APPLICATION\server>npm init (Press enter past all steps, package.json file containing all dependencies and informations will be created in server folder).
2. C:\server>echo>index.js (Create index.js file in server folder).
3. C:\ server>npm install express mysql2 [body-parser](https://www.geeksforgeeks.org/body-parser-middleware-in-node-js/#:~:text=Body%2Dparser%20is%20the%20Node,to%20Install%20body%2Dparser%20module.) [nodemon](https://stackoverflow.com/questions/39052016/what-is-difference-between-node-and-nodemon#:~:text=nodemon%20is%20a%20tool%20that,line%20when%20executing%20your%20script.) [cors](https://portswigger.net/web-security/cors) (Click to read about packages)
4. C:\server>notepad index.js (Open index.js file, Code to use given in folder. Note that you have to UNCOMMENT the code snippet and enter your password in the required field.).

In MYSQL workbench:

1. Server -> data import -> Import from self-contained file-> select the provided table in the folder->Change the default target schema name to “cruddatabase” (without “ “).
2. Start import and refresh schemas when done.

To run Project:

C:\CRUD-APPLICATION\server> nodemon index.js (to connect to the server).

In the Two different terminals

C:\CRUD-APPLICATION\client> npm start (to start React Application).

* Go to localhost3000 on your web browser.