**MERNSTACK**

**In this project we will work on:**

1. Setup MERN Project
2. Setup MongoDB Atlas
3. Transaction form
4. Handle CORS and Nodemon
5. API body parser
6. First transaction
7. Fetch all transaction
8. Express routes
9. Use material UI
10. Design form
11. Submit form
12. Transaction table
13. Delete transaction
14. Update design
15. Update API
16. React router dom
17. Register user part 1
18. Register user part 2
19. Login user part 1
20. Login user part 2
21. Password JWT authenticate
22. DotEnv
23. Top level component middleware
24. Validate token
25. React redux store
26. Auth store
27. Express controllers
28. Transaction of user
29. Category to transaction
30. Show all category
31. Delete category
32. Update & create category
33. Monthly expense chart
34. Deploy MERN Stack to Heroku & Netlify

Create two folders in a main directory

1. Client
2. Server

Open terminal and go into client directory with this command

* cd client

Now run this command

* npx create-react-app .

React application will be installed in client folder

Now start react project with this command

* Npm run start

Now open another terminal go into server directory with this command

* Cd server
* Npm init -y
* Npm install express

Now create a file server.js in server directory

Open package.json file and change the script

    "test": "echo \"Error: no test specified\" && exit 1"

    "backend": "node server.js"

Write this code in server.js

import express from "express";

const PORT = 4000;

const app = express();

app.get("/", (req, res) => {

  res.send("Hello World");

});

app.listen(PORT, () => {

  console.log("Server is running at http://localhost:4000");

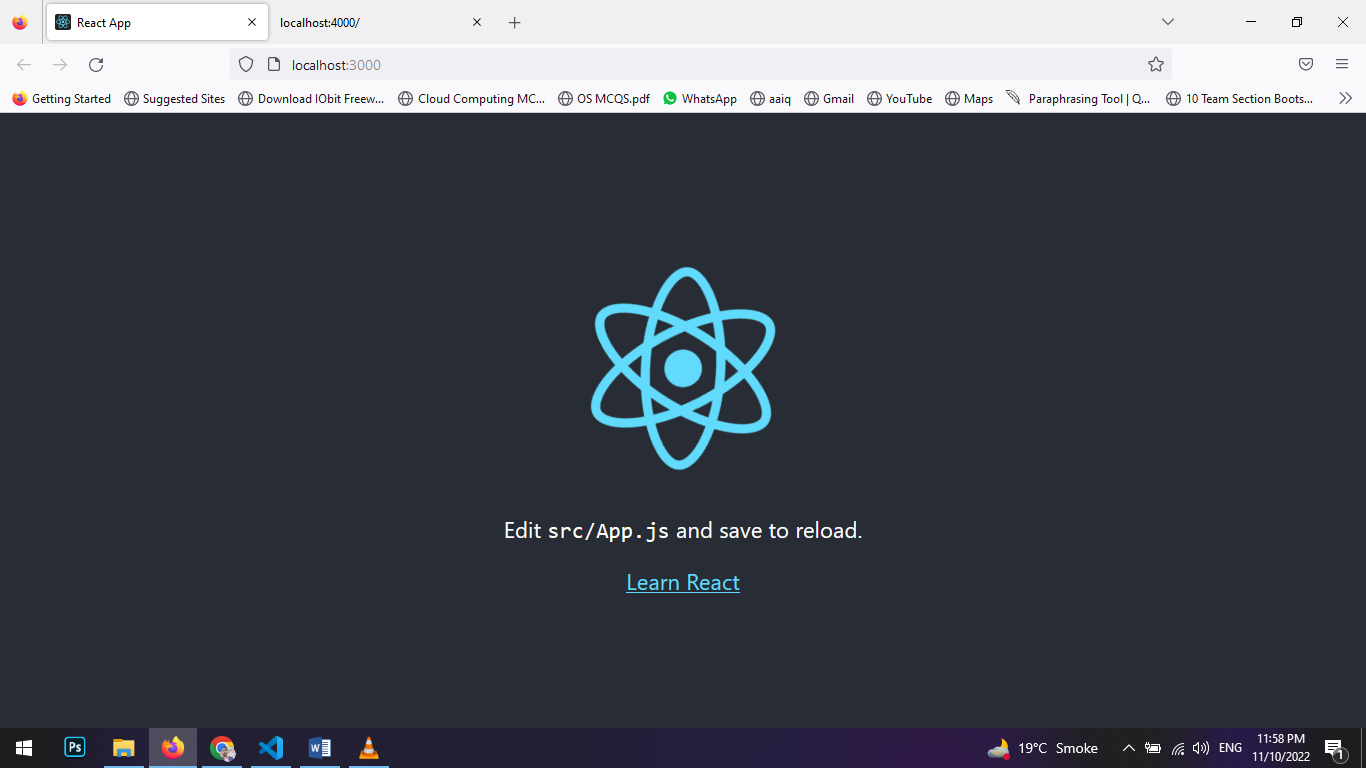
});

Open package.json and add this code

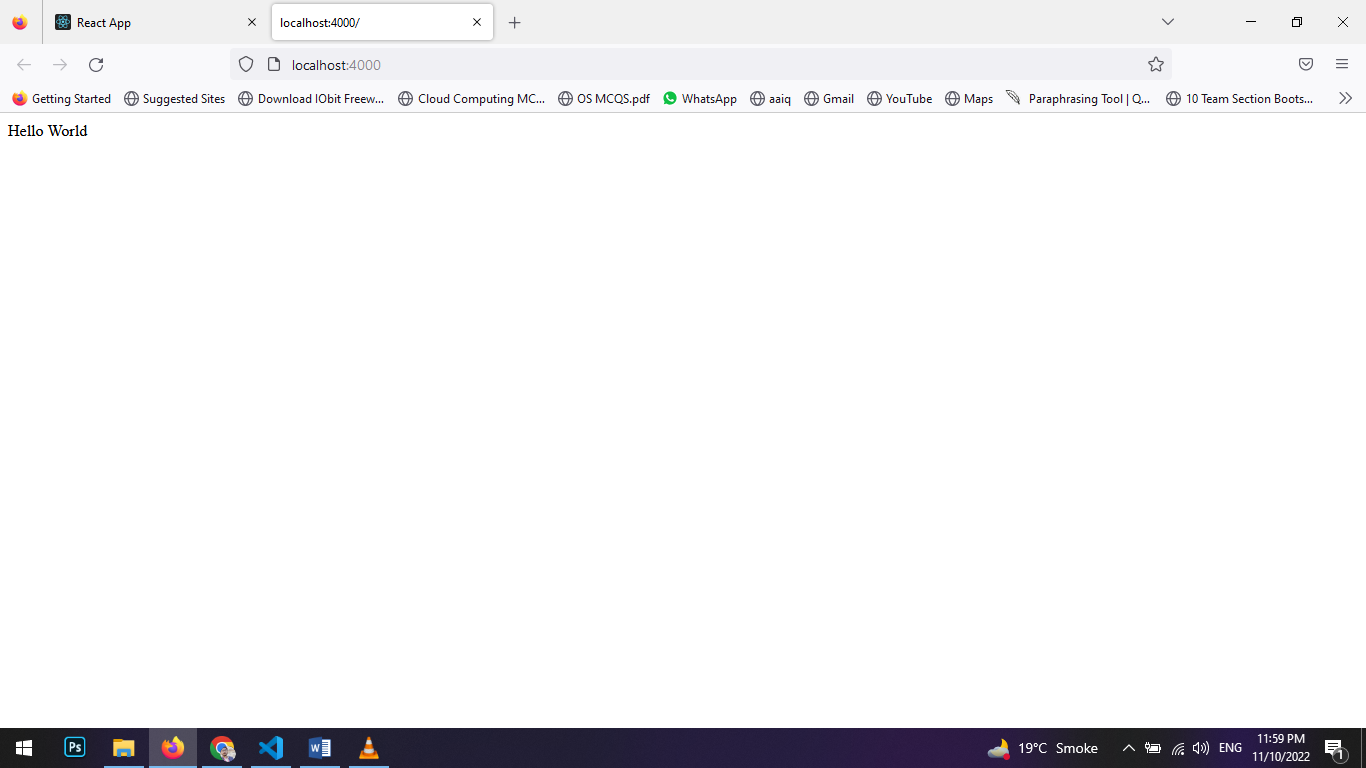
"type": "module",

* Cd server
* Npm run backend

Front-end is running



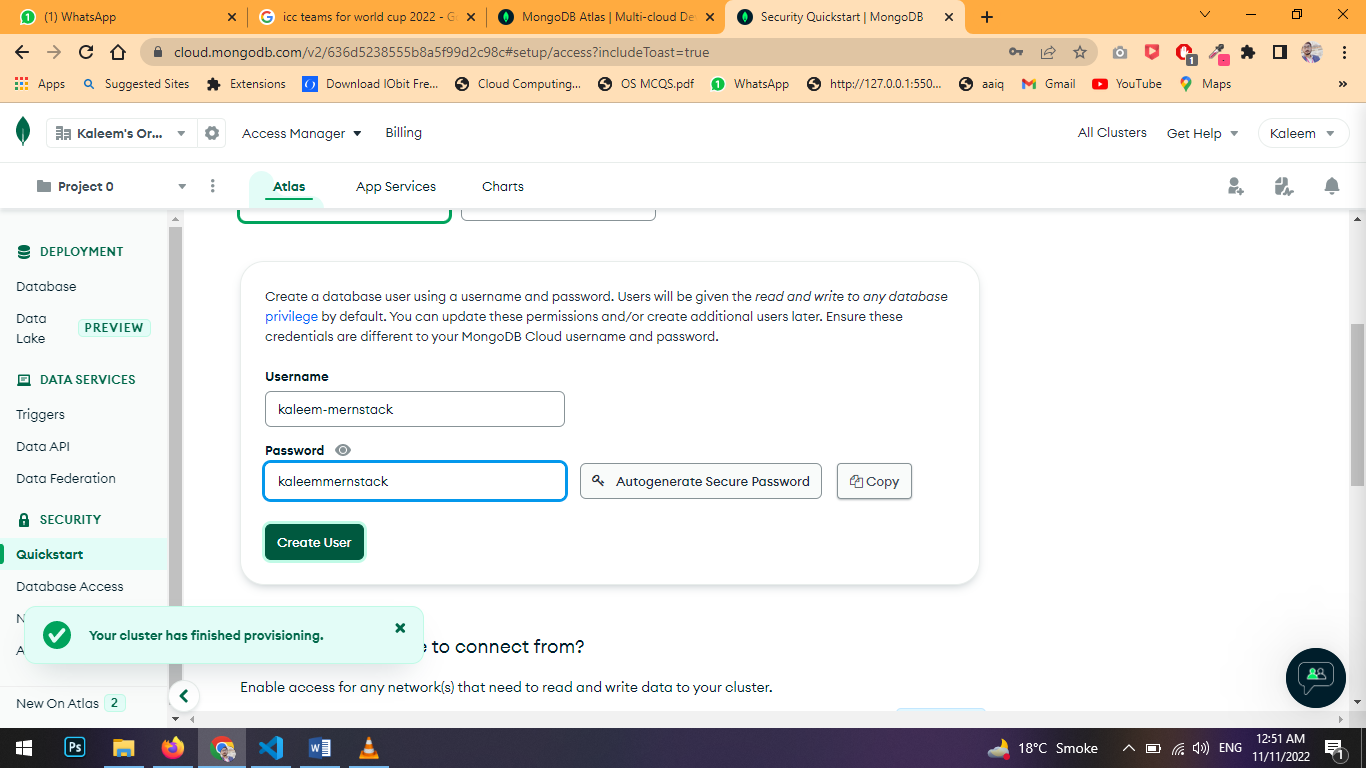
Back-end is running



MongoDB

Open <https://www.mongodb.com/>

Make account for atlas



Open

<https://www.npmjs.com/package/mongoose>

install this in server

* npm install mongoose

import mongoose from 'mongoose';

for connection

await mongoose.connect('mongodb://localhost/my\_database');

mongoose

  .connect(

    "mongodb+srv://kaleemapp:kaleemapp123@kaleemullahmoon.ianekgt.mongodb.net/?retryWrites=true&w=majority"

  )

  .then(() => console.log("MongoDB connection is successfull"));

await mongoose.connect(

  "mongodb+srv://kaleemapp:kaleemapp123@kaleemullahmoon.ianekgt.mongodb.net/?retryWrites=true&w=majority"

);

console.log("MongoDB connection is successfull");