# **FROM 14th August TO 20th August**

# **Project ID:**

# **2021J\_BV01\_BCI Browser**

# **Project Title:**

# **Design and development of Brain Computer Interface Browser on Web and Mobile**

# **Summary:**

* Connecting Reactjs with Nodejs

# **Detail:**

**Reactjs (Front-end) connection with Nodejs(Back-end)**

Connect reactjs with nodejs

**Prerequisites:**

· Basic knowledge of React and Node.

· Node.js installed (version 12+).

· npm installed (version 6+).

**Project Structure:** This is the structure when all the modules and required files are ready.

**Backend setup:** Firstly we will work on our backend(NodeJS) portion. In your working folder make a file named app.js for NodeJS and package.json file to run all the modules we required.

**Installing Module:**

Installing ExpressJS is a nodeJS framework:

npm install express

Installing nodemon:

npm install nodemon

**Configuration of package .json file:** Add the start and dev script, which are important for running and dynamically running the code after changes made in your Node.js app respectively in **package.json** file

**Filename- app.js:** Here is the simple JavaScript code that should be written in app.js which is for NodeJS.

const express = require("express");

const app = express();

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

res.send("Hello World!");

});

const PORT = process.env.PORT || 8080;

app.listen(PORT, console.log(`Server started on port ${PORT}`));

**Frontend setup:** First, we have to create React app and run your app by writing the below command.

npx create-react-app demo

cd demo

npm start

**Connecting:** We have completed both the frontend and backend parts, now we have to connect both. Now for connecting Reactjs with Nodejs we have added this line in package.json of react app folder:

"proxy": "http://localhost:8080

**Filename- package.json:** The package.json file is in your React app folder. This tells React to proxy API requests to the Node.js server built with Express in our project.

{

"name": "demo",

"version": "0.1.0",

"private": true,

"proxy": "[http://localhost:8080](http://localhost:8080/)",

"dependencies": {

"@testing-library/jest-dom": "^5.11.4",

"@testing-library/react": "^11.1.0",

"@testing-library/user-event": "^12.1.10",

"react": "^17.0.1",

"react-dom": "^17.0.1",

"react-scripts": "4.0.2",

"web-vitals": "^1.0.1"

},

