

# Cyclic Deployment-MERN Stack

## I. Setting up your Front-end :

1. Change the address of backend server in the axios.get/put/post/update as follows:

- Earlier it was “ [http://local host:<your-port-number>](http://localhost:<your-port-number>) “.
- Change it into “api”.

```
var [init_state,setState]=useState([]);
useEffect(()=>{
  const data= async()=>{
var dataset=await axios.get('/api/employeeelist')
    setState(dataset.data);

  };
};
```

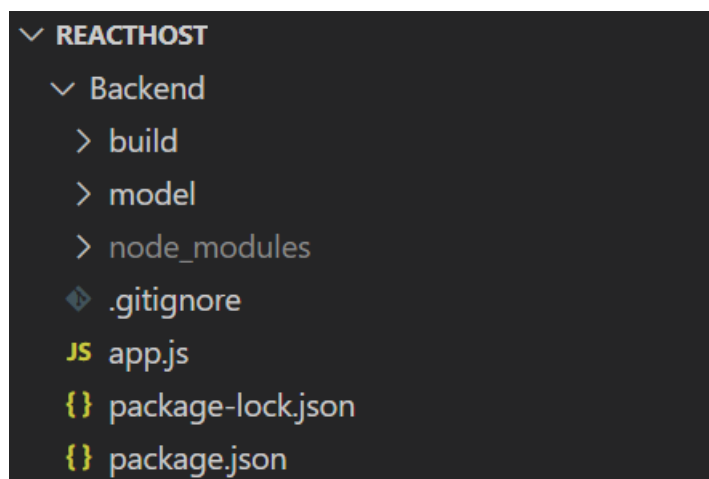
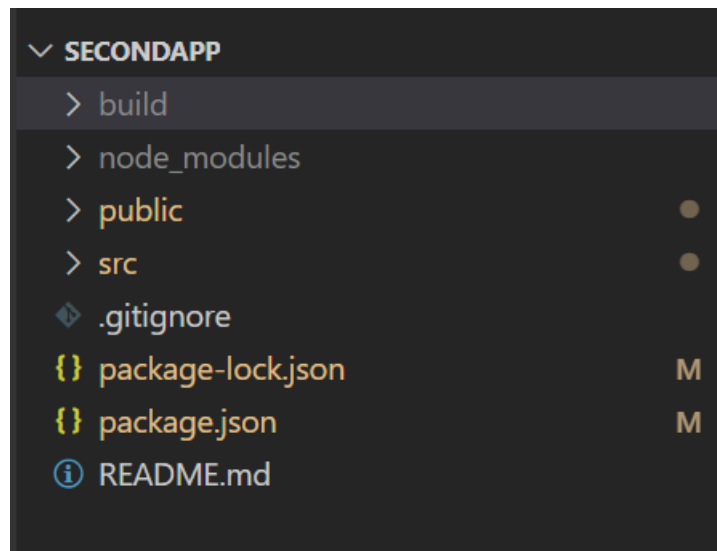
2. In your terminal (Front End Directory) ,compile and build your react frontend project using the following command. This may take few minutes.

```
npm run build
```

```
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/mridulavijay/reactrepo.git
   b6879de..6af3a03  main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\Mridula\Documents\Norkafsdoct2022\Reacthost\Backend> cd ..
PS C:\Users\Mridula\Documents\Norkafsdoct2022\Reacthost> cd .\secondapp\
PS C:\Users\Mridula\Documents\Norkafsdoct2022\Reacthost\secondapp> npm run build
```

3. Upon completion , a “build” folder is created inside your project directory .

a) Copy the build folder and paste it in the Backend Folder



## II. Setting up your Back-end :

1. After copying build folder from Frontend-folder to Backend-folder, in the app.js file add the following codes:

```
▪ const path = require('path');
```

- `app.use(express.static(path.join(__dirname, '/build')));`
- `app.get('/*', function(req, res) {  
res.sendFile(path.join(__dirname  
, '/build/index.html')); });`

```
const path = require('path');

app.use(express.static(path.join(__dirname, '/build')));

// All routes should be included here
app.get('/*', function (req, res) {
  res.sendFile(path.join(__dirname, '/build/index.html'));
  //!Keep this as the last among all other routes
});
```

## 2. Minor changes in the routes address

- Add `"/api"` before all router except Primary router as shown below

```
// All routes should be included here
app.get('/api/employeeelist',function(req,res){ // /employeeelist changes to /api/employeeelist
  Employeeedata.find()
  .then(function(data){
    res.send(data);
  })
})
app.get('/api/employeeelist/:id',function(req,res){
  Employeeedata.findOne({"_id":req.params.id})
  .then(function(data){
    res.send(data);
  })
})
app.post('/api/employeeelist',function(req,res){
  var newdata={ // /employeeelist changes to /api/employeeelist
    name:req.body.name,
    position:req.body.position,
    location:req.body.location,
    salary:req.body.salary
```

3. In the package.json file of Backend-End Folder, add the following code inside the "scripts": {}

```
"start": "node app.js",
```

```
Backend > package.json > {} scripts
1  {
2    "name": "backend",
3    "version": "1.0.0",
4    "description": "",
5    "main": "index.js",
6    "scripts": {
7      "start": "node app.js", // add here
8      "test": "echo \"Error: no test specified\" && exit 1"
9    },
10   "author": "",
11   "license": "ISC",
12   "dependencies": {
13     "cors": "^2.8.5",
14     "express": "^4.17.1",
15     "nodemon": "^2.0.15",
16     "path": "^0.12.7"
17   }
18 }
19
```

4. Save it . Add the backend folder as a new repository in Github. (Make sure you have gitignored nodemodules)

main

1 branch

0 tags

Go to file

Add file

<> Code

mridular first commit

b6879de 42 minutes ago 1 commit

build	first commit	42 minutes ago
model	first commit	42 minutes ago
.gitignore	first commit	42 minutes ago
app.js	first commit	42 minutes ago
package-lock.json	first commit	42 minutes ago
package.json	first commit	42 minutes ago

Help people interested in this repository understand your project by adding a README.

Add a README

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5. In the Cyclic app, create a new app. Integrate it with your GitHub MERN repository, you just created.
6. Deploy the project
7. If you find any error, use Logs tab to find where the error is .