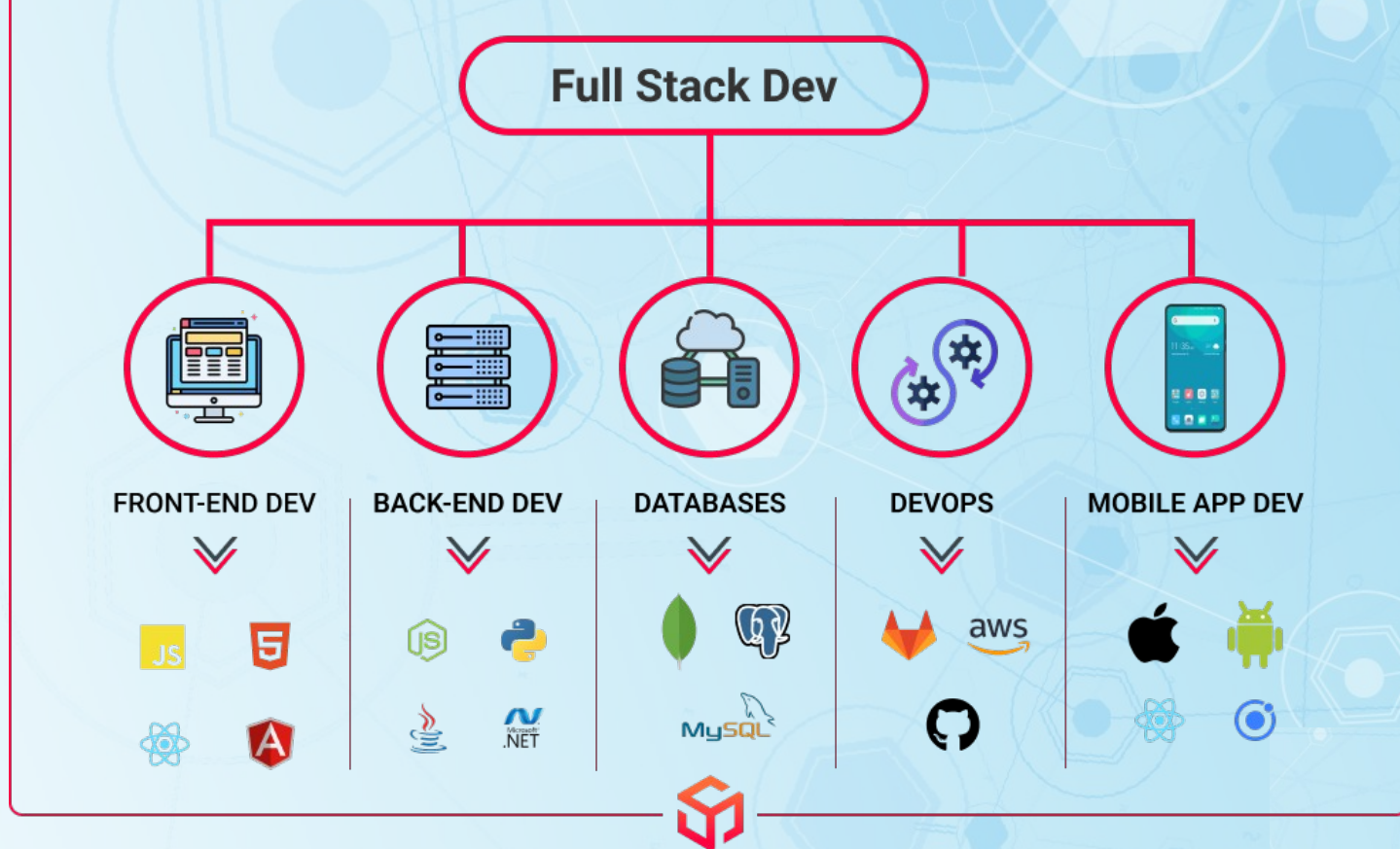


MC4266 – Full Stack Web Development



Ex : 2

Fetch data and display the contents in the form of a card

Ex:2 Fetch data and display the contents in the form of a card

1. Create a HTML File(ex_2.html) in Ex_2 Folder
2. Add script in the html file for an API as localhost or server

For Localhost:

Create a users details JSON File(users.json) in the current folder

```
<script>
  async function fetchData() {
    try {
      //const response = await fetch('https://jsonplaceholder.typicode.com/users');
      const response = await fetch('http://127.0.0.1:8081/Solutions/Ex_2/users.json');
      const data = await response.json();
    }
  }
}
```

Ex:2 Fetch data and display the contents in the form of a card

To Run:

1. Start the http-server

maniraj@Titan:~/Documents/FSWD_Lab\$ **npx http-server**

2. Change the url in the script as shown in the Terminal

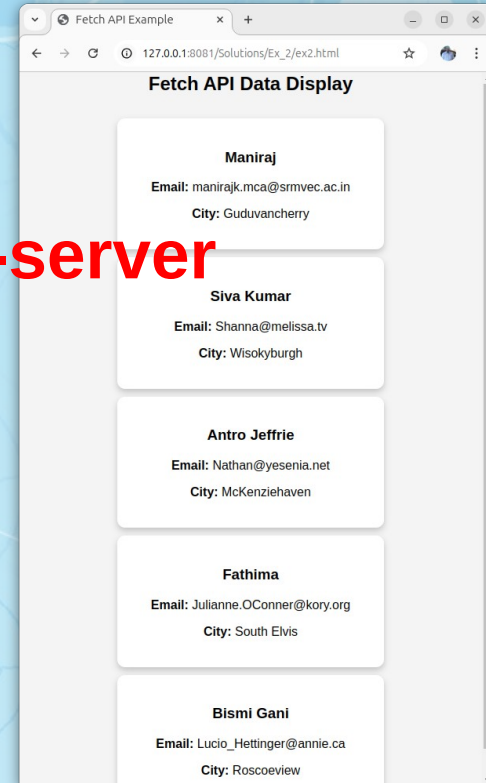
For Localhost:

<http://127.0.0.1:8080> (or)

<http://192.168.1.7:8080>

3. Open the Browser and give the above link

4. Navigate to the ex_2.html file and click to view the output



Ex : 3

NodeJS server that serves static HTML and CSS files to the user without using Express

Ex:3 NodeJS server that serves static HTML and CSS files to the user without using Express

1. Create a project folder(Ex_3) and add the following file:

ex_3_server.js (Node.js server)

2. Create a folder public in Ex_3 and add the following files:

ex_3.html (HTML file)

ex_3_mystyle.css (CSS file)

3. Run as below using Terminal

Change to the project folder & Give Command : node [js file name] as

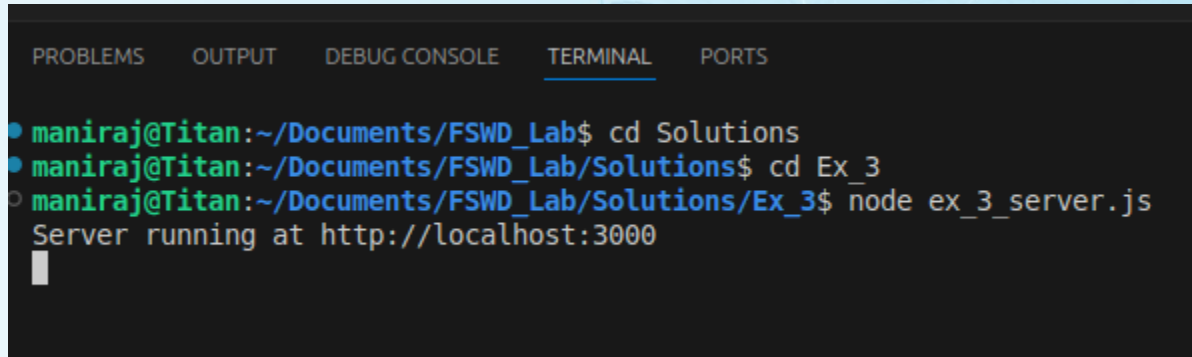
```
maniraj@Titan:~/Documents/FSWD_Lab$ cd Solutions
```

```
maniraj@Titan:~/Documents/FSWD_Lab/Solutions$ cd Ex_3
```

```
maniraj@Titan:~/Documents/FSWD_Lab/Solutions/Ex_3$ node
```

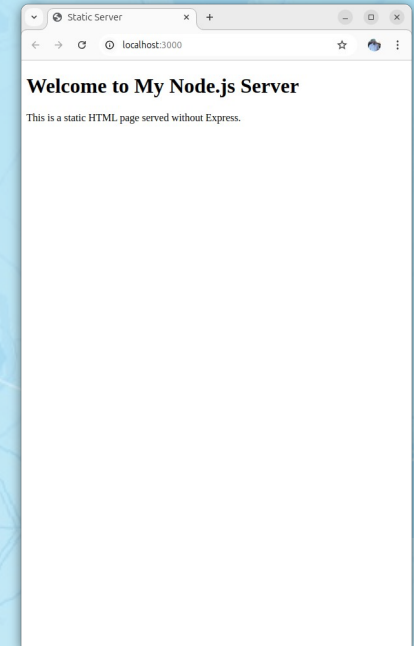
Ex:3 NodeJS server that serves static HTML and CSS files to the user without using Express

4. Open the Browser and give the below Link



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

• maniraj@Titan:~/Documents/FSWD_Lab$ cd Solutions
• maniraj@Titan:~/Documents/FSWD_Lab/Solutions$ cd Ex_3
○ maniraj@Titan:~/Documents/FSWD_Lab/Solutions/Ex_3$ node ex_3_server.js
Server running at http://localhost:3000
```



Ex : 4

Create a NodeJS server using Express that stores data from a form as a JSON file

Express is a very popular application framework for building and running Node.js applications. You can scaffold (create) a new Express application using the Express Generator tool. The Express Generator is shipped as an npm module and installed by using the npm command-line tool npm.

Ex:4 Create a NodeJS server using Express that stores data from a form as a JSON file

1. Initialize a Node.js project

```
maniraj@Titan:~/Documents/FSWD_Lab$ cd Solutions
```

```
maniraj@Titan:~/Documents/FSWD_Lab/Solutions$ mkdir Ex_4
```

```
maniraj@Titan:~/Documents/FSWD_Lab/Solutions$ cd Ex_4
```

```
maniraj@Titan:~/Documents/FSWD_Lab/Solutions/Ex_4$ npm init -y
```

2. Install Express: `maniraj@Titan:~/Documents/FSWD_Lab/Solutions/Ex_4$`

```
npm install -g express-generator  
express myExpressApp --view pug
```

The -g switch installs the Express Generator globally on your machine so you can run it from anywhere.

Ex:4 Create a NodeJS server using Express that stores data from a form as a JSON file

3. Create an application

```
cd myExpressApp  
npm install
```

4. From a terminal in the Express application folder, run:

```
npm start
```

5. Create Express Server File : **ex_4_server.js**

6. Create a public folder and add a html File **ex_4.html**

Ex:4 Create a NodeJS server using Express that stores data from a form as a JSON file

Execute or Run the JS

1. Start the server

node ex_4_server.js

```
maniraj@Titan:~/Documents/FSWD_Lab/Solutions/Ex_4$ npm install express body-parser fs
added 70 packages, and audited 71 packages in 2s

14 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
maniraj@Titan:~/Documents/FSWD_Lab/Solutions/Ex_4$ mkdir public
maniraj@Titan:~/Documents/FSWD_Lab/Solutions/Ex_4$ node ex_4_server.js
Server running at http://localhost:3000
```

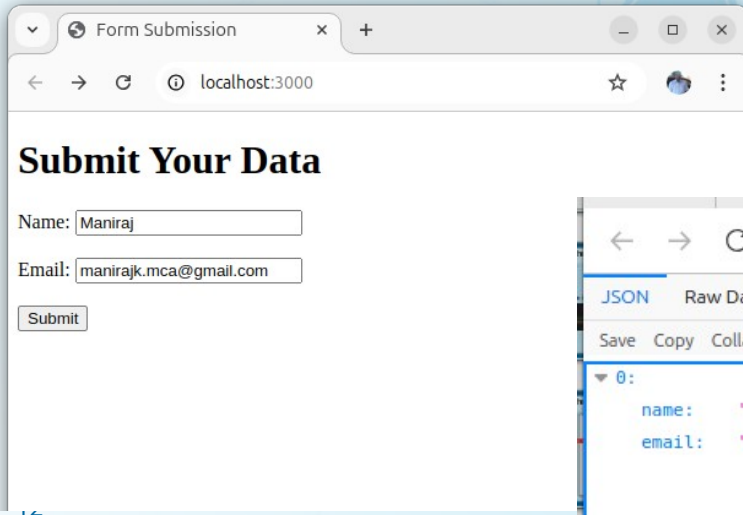
2. Open the Browser and click the Link

Ex:4 Create a NodeJS server using Express that stores data from a form as a JSON file

Execute or Run the JS

3. Submit the form with the data

4. You can see data.json in the folder after Submit



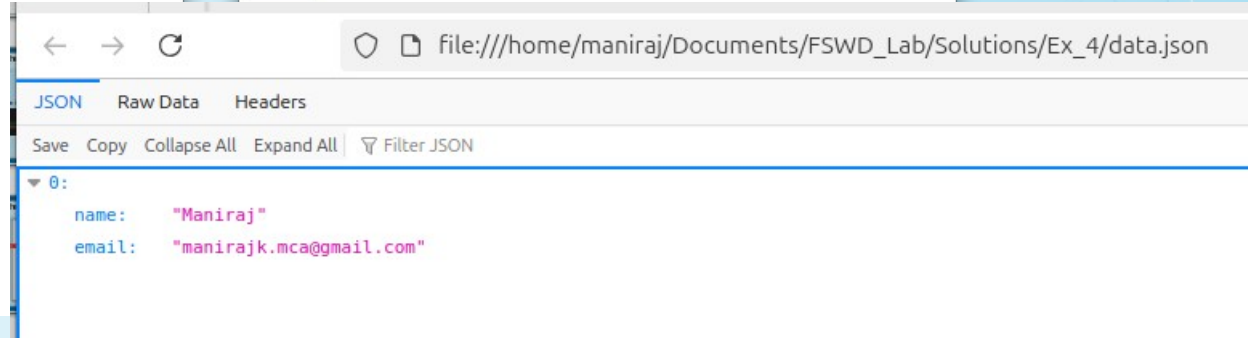
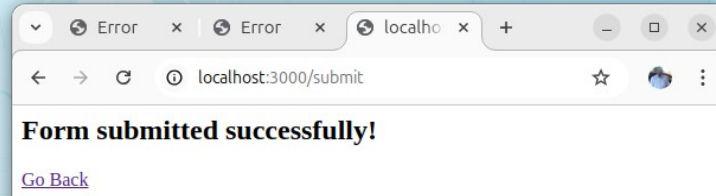
Form Submission

localhost:3000

Submit Your Data

Name:

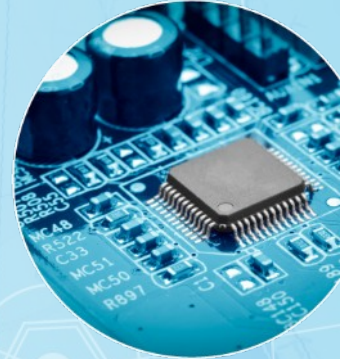
Email:



Ex : 5



Any Queries?



manirajk.mca@srmvalliammai.ac.in