

Backend:

index.js

```
const express =
require("express")
app = express();
app.use(express.json());

app.use(function (req, res,
next) {
    // Website you wish to
    allow to connect
    res.setHeader('Access-
Control-Allow-Origin', '*');
    // Request methods you wish
    to allow
    res.setHeader('Access-
Control-Allow-Methods', 'GET,
POST, OPTIONS, PUT, PATCH,
DELETE');
    // Request headers you wish
    to allow
    res.setHeader('Access-
Control-Allow-Headers', 'X-
Requested-With,content-type');
    // Set to true if you need
    the website to include cookies
    in the requests sent
    // to the API (e.g. in case
    you use sessions)
    res.setHeader('Access-
Control-Allow-Credentials',
    true);
    // Pass to next layer of
    middleware
    next();
});

var data = {
    firstName: "",
    lastName:"",
    age:"",
    college:""
}
app.get("/", (req, res) => {
    res.status(200).json(data);
})
app.post("/", (req, res) => {
    const userData = req.body
```

```
    data = userData;

    console.log(data)
    res.status(200).json(data);
});

app.listen(3000, () => {
    console.log("http://localho
st:3000")
});
```

package.json

```
{
  "name": "backend",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "nodemon index.js"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "dependencies": {
    "express": "^4.18.2"
  },
  "devDependencies": {
    "nodemon": "^2.0.20"
  }
}
```

Frontend:

index.html

```
<!doctype html>
<html lang="en">
<head>
    <title>Assignment
1B</title>
    <meta charset="utf-8">
    <meta name="viewport"
content="width=device-width,
initial-scale=1, shrink-to-
fit=no">    <link
href="https://cdn.jsdelivrivr.net/
npm/bootstrap@5.2.1/dist/css/bo
otstrap.min.css"
rel="stylesheet"
integrity="sha384-
```

```

iYQeCzEYFbKjA/T2uDLTpkwGzCiq6so
y8tYaI1GyVh/UjpbCx/TYkiZhlZB6+f
zT" crossorigin="anonymous">
    <script
src="https://ajax.googleapis.co
m/ajax/libs/jquery/3.6.3/jquery
.min.js"></script>
</head>
<body>
    <div class="container my-
4">
        <main id="output"
class="bg-dark text-light p-4
rounded mb-4 w-50 mx-auto"
style="letter-spacing: 2px;">
            </main>
            <div class="w-50 mx-
auto mb-4 text-end">
                <button
class="btn btn-dark"
onclick="fetchData()">Reload</b
utton>
            </div>
            <form
id="addNumberForm" class="p-4
border shadow-sm w-50 mx-
auto"><div class="mb-2"><label
for="firstName" class="form-
label">First Name</label><input
value="sumit" type="text"
class="form-control"
name="firstName" required
id="firstName" aria-
describedby="helpId"
placeholder="Enter Your First
Name">
                </div>
                <div class="mb-
2">
                    <label
for="lastName" class="form-
label">Last Name</label>
                    <input
value="kawale" type="text"
class="form-control"
name="lastName" required
id="lastName" aria-
describedby="helpId"

```

```

placeholder="Enter Your Last
Name">
                </div>
                <div class="mb-
2">
                    <label for="age"
class="form-label">Age</label>
                    <input
value="21" type="text"
class="form-control" name="age"
required id="age" aria-
describedby="helpId"
placeholder="Enter Your
Age"></div><div class="mb-3">
                    <label
for="college" class="form-
label">College Name</label>
                    <input
value="pict" type="text"
class="form-control"
name="college" required
id="college" aria-
describedby="helpId"
placeholder="Enter Your College
Name">
                </div>
                <button
type="submit" class="btn btn-
primary">Submit</button>
                <hr>
                <small
class="small text-success"
id="msg"></small>
            </form>
        </div>
        <script>
            const output =
document.getElementById("output
");

            function fetchData()
{
                var xhttp = new
XMLHttpRequest();

                xhttp.onreadystatechange =
function() {

```

```

        if
        (this.readyState == 4 &&
        this.status == 200) {

            let
            data =
            JSON.parse(xhr.responseText)

            let
            string = `name:
            ${data.firstName}
            ${data.lastName} <hr>age:
            ${data.age}<hr>college:
            ${data.college}`;

            output.innerHTML = string;

            w =
            window.open();

            w.document.body.innerHTML
            = "<h1>User Details</h1><h3>";

            w.document.body.innerHTML
            += string;

            w.document.body.innerHTML
            += "</h3>";

        }
    };
    xhttp.open("GET",
    "http://localhost:3000/",
    true);
    xhttp.send();
    }
    document.body.onload
    = () => {
        fetchData()

        document.forms.addNumberFo
        rm.addEventListener("submit",
        (event) => {

            event.preventDefault();

```

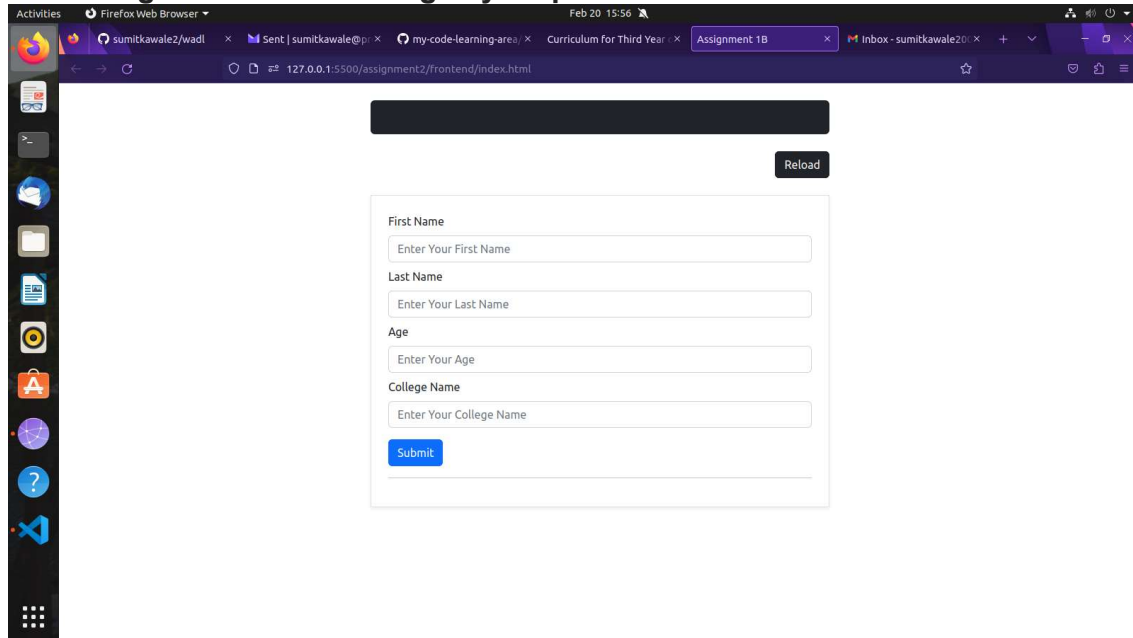
```

        const
        firstName =
        event.target.firstName.value;
        const
        lastName =
        event.target.lastName.value;
        const age
        = event.target.age.value;
        const
        college =
        event.target.college.value;
        $("#msg").html("")
        $.ajax({
            type: 'post',
            url:
            'http://localhost:3000/',
            data: JSON.stringify({
                firstName, lastName, age,
                college
            }),
            contentType:
            "application/json; charset=utf-
            8",
            traditional: true,
            success: function(data) {
                fetchData();
                $("#msg").html("User
                Details Updated")
            }
        });
    });
    });
    };
</script>
</body>
</html>

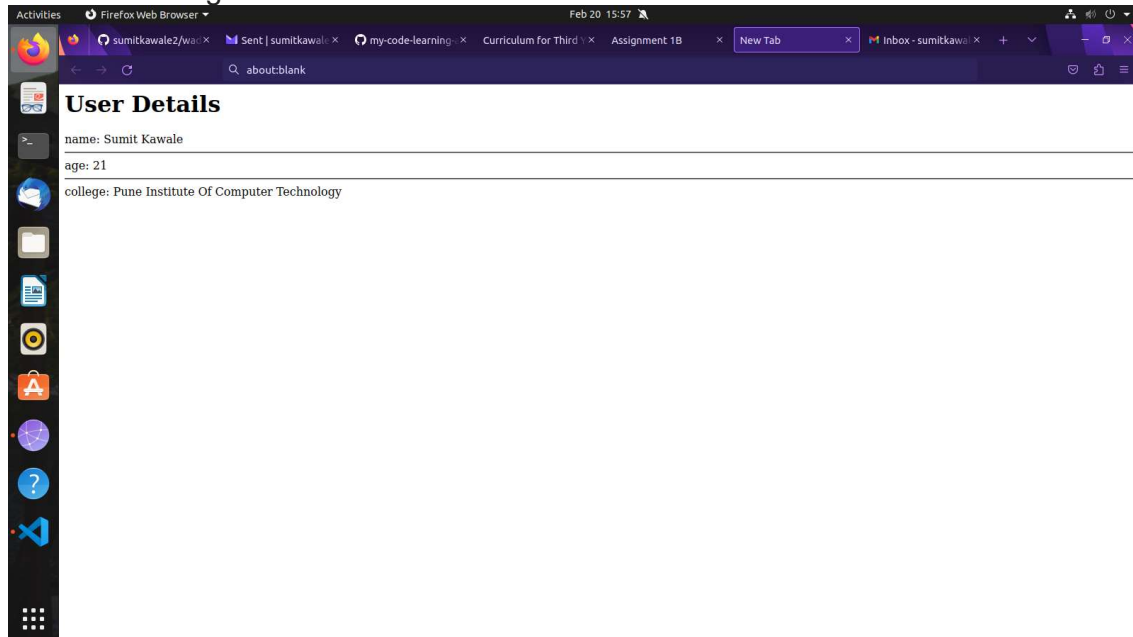
```

OUTPUT:

Home Page Before submitting any response:



After Submitting the form:



Home Page After Submitting form:

