THE CALL OF THE CA

BHARATIYA VIDYA BHAVAN'S

SARDAR PATEL INSTITUTE OF TECHNOLOGY

Munshi nagar, Andheri (W), Mumbai - 400058 (Autonomous Institute Affiliated to University of Mumbai) [Department of Computer Science and Engineering (Master of Computer Applications)]

CLASS: F.Y. MCA SEM: I AY:24-25

COURSE CODE: MC504 SUBJECT NAME: WEB TECHNOLOGY LAB

ROLL NO.: 2024510001 BATCH: A

NAME: Atharva Vasant Angre

EXPERIMENT NO: 08

EXPERIMENT TITLE: Create API.

Problem Statement

Develop a Node.js application using Express to demonstrate the implementation of basic API endpoints. These APIs should handle:

A GET request to greet a user by their first name.

A POST request to calculate the sum of two numbers.

The application should include a frontend HTML form to interact with the APIs and a backend service to process the requests.

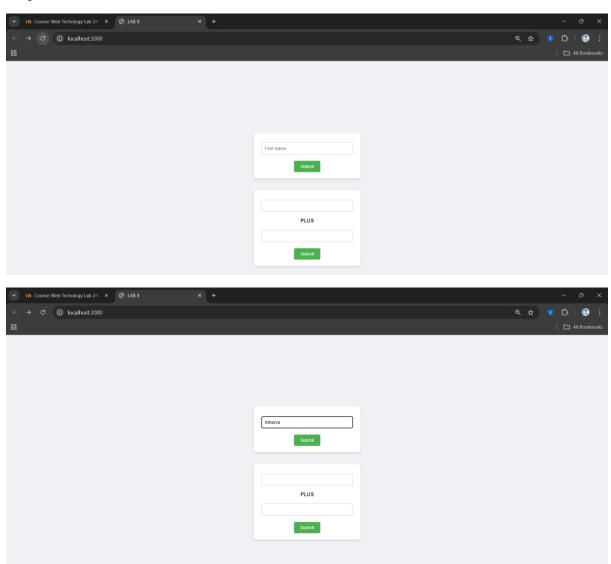
```
Code:
Home.html
<!DOCTYF
```

```
<!DOCTYPE html>
<html>
 <head>
  <title>LAB 8</title>
 </head>
 <body>
  <form action="/greeting" method="GET">
   <input name="firstname" type="text" placeholder="First Name" />
   <button type="submit">Submit</button>
  </form>
  <br/>br />
  <form action="/add" method="POST">
   <input name="num1" type="number" />
   <span>PLUS</span>
   <input name="num2" type="number" />
   <button type="submit">Submit</button>
  </form>
 </body>
</html>
Server.js
const express = require("express");
const bodyParser = require("body-parser");
const service = require("./service.js");
const path = require("path");
const app = express();
```

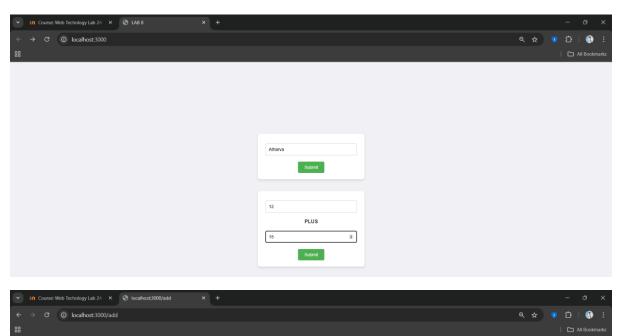
```
const port = 3000;
app.use(bodyParser.json());
app.use(
 bodyParser.urlencoded({
  extended: true,
 })
);
app.get("/", (req, res) => {
 res.sendFile("D:/SPIT-FYMCA/WT PRAC/LAB 8/API/home.html");
});
service.attachService(app);
app.listen(port, () => {
 console.log(`Server running at http://localhost:${port}`);
});
Service.js
function greeting(req, res) {
 var greet = req.query.firstname;
 res.send("Greetings, " + greet);
}
function additon(req, res) {
 var n1 = req.body.num1;
 var n2 = req.body.num2;
 var sum = parseInt(n1) + parseInt(n2);
 res.send(n1 + " plus " + n2 + " = " + sum);
```

```
var attachService = function (app) {
  app.get("/greeting", greeting);
  app.post("/add", additon);
};
exports.attachService = attachService;
```

Outputs:







12 plus 15 = 27

