**BHARATIYA VIDYA BHAVAN’S**

**SARDAR PATEL INSTITUTE OF TECHNOLOGY**

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**(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

<!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 />

    <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>

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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}`);

});

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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:













