**Assignment 2: Express.js Server**

**Create a basic Express.js server.**

**Define routes for different HTTP methods.**

Below are the steps to create a basic Express.js server and define routes for different HTTP methods.

Step 1: Install Express

Navigate to Your Project Directory:

Open a terminal or command prompt.

Use the cd command to navigate to your project directory if you're not already there.

Install Express:

Run the following command to install Express:

npm install express

Step 2: Create an Express.js Server

Create a File for the Express Application:

In your project directory, create a file named app.js (or any other name you prefer).

Edit app.js:

Open app.js in a text editor and add the following code:

const express = require('express');

const app = express();

const port = 3000;

// Define a route for the root path

app.get('/', (req, res) => {

res.send('Hello, World! This is the root path.');

});

// Define a route for a GET request to /about

app.get('/about', (req, res) => {

res.send('About Page');

});

// Define a route for a POST request to /api

app.post('/api', (req, res) => {

res.send('POST request to /api');

});

// Define a route for a PUT request to /api

app.put('/api', (req, res) => {

res.send('PUT request to /api');

});

// Define a route for a DELETE request to /api

app.delete('/api', (req, res) => {

res.send('DELETE request to /api');

});

// Start the server

app.listen(port, () => {

console.log(`Server listening at http://localhost:${port}`);

});

Step 3: Run the Express.js Server

Run the Application:

In the terminal, run the following command to start the Express.js server:

node app.js

You should see the message Server listening at http://localhost:3000.

Step 4: Test the Routes

Open Your Browser or Use a Tool Like Postman:

Open your web browser or use a tool like Postman to test the defined routes.

Test the Routes:

Open http://localhost:3000 in your browser. You should see the "Hello, World! This is the root path." message.

Open http://localhost:3000/about to see the "About Page" message.

Use a tool like Postman to send POST, PUT, and DELETE requests to http://localhost:3000/api and observe the responses.

Congratulations! You have successfully created a basic Express.js server with routes for different HTTP methods. You can expand on this example by adding more routes and handling different types of requests based on your application's needs.