

1. Make a Server in the express

The screenshot shows a Windows desktop environment. On the left is a Visual Studio Code (VS Code) interface. The Explorer sidebar shows a project structure with files like `server.js`, `express-server`, `.env`, `gitignore`, and `package.json`. The `server.js` file is open in the editor, displaying the following code:

```
1 import express from "express";
2 import dotenv from "dotenv";
3
4 dotenv.config();
5
6 const app = express();
7
8 const PORT = process.env.PORT;
9
10 app.get("/", (req, res) => {
11   res.send("Server Running");
12 });
13
14 app.listen(PORT, () => {
15   console.log(`http://localhost:${PORT}`);
16});
```

Below the editor is a terminal window showing the command `npm run dev` being executed, followed by output from nodemon and express-esm-server. The terminal also shows the server is running on port 5000. To the right of the VS Code window is a Microsoft Edge browser window displaying the URL `localhost:5000`. The browser title bar says "localhost:5000" and the page content says "Server Running". The system tray at the bottom shows the date and time as "2/13/2026 6:19 AM".

2. Difference between Node and Express

Node.js is a runtime environment that allows JavaScript to run on the server side. Express.js is a web framework built on top of Node.js that simplifies building web applications and APIs.

3. What is .env?

.env is a file used to store environment variables such as database credentials, API keys, and port numbers. It helps keep sensitive information secure and separate from the main code.

4. What is listen()?

listen() is a method used to start a server and make it listen for incoming requests on a specific port number.

5. What is Express?

Express is a minimal and flexible Node.js web application framework that provides features for building web and mobile applications.

6. Why we use Express?

We use Express to simplify server creation, routing, middleware handling, and API development. It reduces the amount of code needed compared to using Node.js alone.

7. What is Nodemon?

Nodemon is a tool that automatically restarts the Node.js server whenever file changes are detected. It improves development efficiency.

8. What is port number and localhost?

A port number is a communication endpoint used by a server to listen for requests (e.g., 3000, 5000). Localhost refers to the local computer (IP address 127.0.0.1).

9. What is API?

API (Application Programming Interface) is a set of rules that allows different software applications to communicate with each other.

10. Flow of Express + Frontend Process

1. User interacts with the frontend (React/HTML).
2. Frontend sends a request to the Express backend.
3. Express processes the request.
4. Backend interacts with database (if needed).
5. Server sends response back to frontend.
6. Frontend displays the response to the user.

11. What is package.json?

package.json is a configuration file in a Node.js project that contains project details, dependencies, scripts, version, and metadata.