## **USER GUIDE**

Setting up a Node.js Express server using the VS Code editor is a relatively straightforward process. Here's a step-by-step guide to help you get started:

\*\*Step 1: Install Node.js\*\*

Before setting up the Express server, you need to have Node.js installed on your machine. You can download the Node.js installer from the official Node.js website (https://nodejs.org) and follow the installation instructions for your operating system.

\*\*Step 2: Create a New Project\*\*

Open VS Code and create a new folder for your Express server project. You can do this by clicking on the "Explorer" icon on the left sidebar, right-clicking on a suitable location, and selecting "New Folder." Give your folder a name.

\*\*Step 3: Initialize the Project\*\*

Next, open a new terminal in VS Code by clicking on "View" in the top menu and selecting "Terminal" or using the shortcut `Ctrl+`<code>`. In the terminal, navigate to the project folder you created in the previous step using the `cd` command. For example:

```bash
cd path/to/your/project/folder

Once you're inside the project folder, run the following command to initialize a new Node.js project:

```bash npm init -y

This command creates a 'package.json' file, which will keep track of your project dependencies.

\*\*Step 4: Install Express\*\*

To install Express, run the following command in the terminal:

```bash

npm install express

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This command downloads and installs the Express package and its dependencies into your project.

\*\*Step 5: Create the Server File\*\*

Create a new file in your project folder, e.g., `server.js`, which will serve as the entry point for your Express server. Open the file in VS Code.

```
**Step 6: Set Up the Server**
In the 'server.js' file, require Express and create an instance of the Express
application. Add the following code:
 `iavascript
const express = require('express');
const app = express();
// Define your routes and middleware here
// Start the server
const port = 3000;
app.listen(port, () => {
 console.log(`Server is running on port ${port}`);
});
You can modify the 'port' variable to use a different port number if needed.
**Step 7: Define Routes and Middleware**
Now you can define your routes and middleware inside the `server.js` file. For
example, to create a basic route that responds with "Hello, World!" when you visit the
root URL, add the following code before the server start code:
```javascript
app.get('/', (req, res) => {
 res.send('Hello, World!');
});
You can add more routes and middleware as needed.
**Step 8: Start the Server**
```

To start your Express server, go to the terminal in VS Code and run the following command:

```
```bash
node server.js
```

You should see the message "Server is running on port 3000" in the terminal, indicating that your server is up and running.

That's it! You have successfully set up a basic Node.js Express server using the VS Code editor. You can now visit `http://localhost:3000` in your web browser to see the "Hello, World!" response. Feel free to expand on this setup by adding more routes, middleware, and functionality to meet your requirements.