server.js

```
const http = require("http");
const fs = require("fs");
const path = require("path");
const url = require("url");

const server = http.createServer((req, res) => {
    const reqUrl = url.parse(req.url, true);

    if (reqUrl.pathname === "/" || reqUrl.pathname ===
"/index.html") {
        // Serve the HTML page
        fs.readFile(path.join(__dirname, "public", "index.html"),
(err, data) => {
            if (err) {
                res.writeHead(500, { "Content-Type": "text/plain"
});
                res.end("Internal Server Error");
            } else {
                res.writeHead(200, { "Content-Type": "text/html" });
                res.end(data);
            }
        });
    }
     else if (reqUrl.pathname === "/notes" && req.method === "GET")
{
        // Handle GET request to retrieve notes (simulated in-memory
storage)
        const notes = [
            { id: 1, text: "Buy protien" },
            { id: 2, text: "Finish web tech assignment" },
        ];
        res.writeHead(200, { "Content-Type": "application/json" });
        res.end(JSON.stringify(notes));
    } else {
        // Handle other routes with a 404 Not Found response
```

```
        res.writeHead(404, { "Content-Type": "text/plain" });
        res.end("Not Found");
    }
});

const port = process.env.PORT || 3000;
server.listen(port, () => {
    console.log(`Server is running on port ${port}`);
});
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Server-Side Notes</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <h1>Server-Side Notes</h1>
    <div class="notes-container">
        <textarea id="noteInput" placeholder="Add a new note">
</textarea>
        <button id="addNote">Add Note</button>
    </div>
    <div class="notes-list">

    </div>
    <script src="script.js"></script>
</body>
</html>
```

```
document.addEventListener("DOMContentLoaded", () => {
    const noteInput = document.getElementById("noteInput");
    const addNoteButton = document.getElementById("addNote");
    const notesList = document.querySelector(".notes-list");

    // Fetch and display notes
    fetch("/notes")
        .then((response) => response.json())
        .then((notes) => {
            notes.forEach((note) => {
                displayNote(note);
            });
        })
        .catch((error) => {
            console.error("Error fetching notes:", error);
        });

    // Add a new note
    addNoteButton.addEventListener("click", () => {
        const text = noteInput.value.trim();
        if (text) {
            fetch("/notes", {
                method: "POST",
                headers: {
                    "Content-Type": "application/json",
                },
                body: JSON.stringify({ text }),
            })
                .then((response) => response.json())
                .then((newNote) => {
                    displayNote(newNote);
                    noteInput.value = "";
                })
                .catch((error) => {
                    console.error("Error adding note:", error);
                });
        }
    });
```

```
    // Display a note
    function displayNote(note) {
        const noteElement = document.createElement("div");
        noteElement.className = "note";
        noteElement.textContent = note.text;
        notesList.appendChild(noteElement);
    }
});
```

Server-Side Notes

Add a new note

Add Note