server.js

```javascript
const express = require('express');
const app = express();
const port = 3000;
app.use(express.json());
let notes = [];
app.use(express.static('public'));
app.use((req, res, next) => {
console.log(`Received ${req.method} request at
${req.url}`);
next();
});
app.get('/api/notes', (req, res) => {
res.json(notes);
});
app.post('/api/notes', (req, res) => {
const { title, content } = req.body;
const newNote = { id: notes.length + 1, title, content };
notes.push(newNote);
console.log(`Added a new note: "${title}"`);
res.status(201).json(newNote);
});
app.delete('/api/notes/:id', (req, res) => {
const idToDelete = parseInt(req.params.id);
notes = notes.filter(note => note.id !== idToDelete);
console.log(`Deleted note with ID: ${idToDelete}`);
res.sendStatus(204);
});
app.listen(port, () => {
console.log(`Server is running on port ${port}`);
});
```

```html
<!DOCTYPE html>
<html>
<head>
    <title>Note Taking App</title>
</head>
<body>
    <h1>Notes</h1>
    <form id="noteForm">
        <input type="text" id="noteTitle"
placeholder="Title" required>
        <textarea id="noteContent" placeholder="Content"
required></textarea>
        <button type="submit">Add Note</button>
    </form>
    <ul id="noteList"></ul>

    <script>
        const noteForm =
document.getElementById('noteForm');
        const noteTitle =
document.getElementById('noteTitle');
        const noteContent =
document.getElementById('noteContent');
        const noteList =
document.getElementById('noteList');

        noteForm.addEventListener('submit', async (e) => {
            e.preventDefault();
            const title = noteTitle.value;
            const content = noteContent.value;
```

```javascript
            if (!title || !content) return;

            try {
                const response = await fetch('/api/notes',
{
                    method: 'POST',
                    headers: {
                        'Content-Type':
'application/json',
                    },
                    body: JSON.stringify({ title, content
}),
                });
                const newNote = await response.json();
                noteTitle.value = '';
                noteContent.value = '';
                displayNote(newNote);
            } catch (error) {
                console.error('Error adding note:',
error);
            }
        });

        async function fetchNotes() {
            try {
                const response = await
fetch('/api/notes');
                const notes = await response.json();
                notes.forEach(displayNote);
            } catch (error) {
                console.error('Error fetching notes:',
error);
            }
        }
```

```javascript
        function displayNote(note) {
            const listItem = document.createElement('li');
            listItem.innerHTML = `<strong>${note.title}
</strong>: ${note.content} <button>Delete</button>`;
            const deleteButton =
listItem.querySelector('button');
            deleteButton.addEventListener('click', async
() => {
                try {
                    await fetch(`/api/notes/${note.id}`, {
method: 'DELETE' });
                    listItem.remove();
                } catch (error) {
                    console.error('Error deleting note:',
error);
                }
            });
            noteList.appendChild(listItem);
        }

        // Initial fetch
        fetchNotes();
    </script>
</body>
</html>
```

Notes

Content

Title

Add Note

- **Gym**: Arms Delete
- **Cloud**: Security Delete
- **WebTech**: Assignment Delete

```
(base) gigachod@pop-os:~/Documents/webTech/ASS6$ node server.js
Server is running on port 3000
Received GET request at /api/notes
Received GET request at /api/notes
Received POST request at /api/notes
Added a new note: "Gym"
Received POST request at /api/notes
Added a new note: "Cloud"
Received POST request at /api/notes
Added a new note: "WebTech"
```