```
Frontend (HTML + CSS + JavaScript
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>To-Do List</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="container">
    <h1>To-Do List</h1>
    <input type="text" id="taskInput" placeholder="Add new task">
    <button onclick="addTask()">Add Task</button>
    ul id="taskList">
  </div>
  <script src="script.js"></script>
</body>
</html>
CSS (styles.css):
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f4;
  margin: 0;
  padding: 0;
}
.container {
  width: 80%;
  margin: 0 auto;
  max-width: 600px;
  padding: 20px;
  background: #fff;
  border-radius: 8px;
  box-shadow: 0 0 10px rgba(0,0,0,0.1);
}
h1 {
  margin-bottom: 20px;
}
```

```
input[type="text"] {
  width: 70%;
  padding: 10px;
  font-size: 16px;
}
button {
  padding: 10px;
  font-size: 16px;
}
ul {
  list-style-type: none;
  padding: 0;
}
li {
  padding: 10px;
  border-bottom: 1px solid #ddd;
  display: flex;
  justify-content: space-between;
  align-items: center;
}
li.completed {
  text-decoration: line-through;
  color: #888;
}
button.edit, button.delete {
  background: #007bff;
  color: #fff;
  border: none;
  padding: 5px 10px;
  cursor: pointer;
}
```

```
button.delete {
  background: #dc3545;
}
JavaScript (script.js):
document.addEventListener('DOMContentLoaded', () => {
  loadTasks();
});
function addTask() {
  const taskInput = document.getElementById('taskInput');
  const taskText = taskInput.value.trim();
  if (taskText === ") return;
  fetch('/tasks', {
    method: 'POST',
    headers: { 'Content-Type': 'application/json' },
    body: JSON.stringify({ text: taskText })
    })
  .then(response => response.json())
  .then(task => {
    appendTask(task);
    taskInput.value = ";
    });
}
function appendTask(task) {
  const taskList = document.getElementById('taskList');
  const li = document.createElement('li');
  li.dataset.id = task.id:
  li.innerHTML = `
    <span class="${task.completed?'completed':"}">${task.text}</span>
    <button class="edit" onclick="editTask(${task.id})">Edit</button>
    <button class="delete" onclick="deleteTask(${task.id})">Delete</button>
  taskList.appendChild(li);
}
```

```
function editTask(id) {
  const newText = prompt('Enter new task text:');
  if (newText === null) return;
  fetch(`/tasks/${id}`, {
    method: 'PUT',
    headers: { 'Content-Type': 'application/json' },
    body: JSON.stringify({ text: newText })
  .then(response => response.json())
  .then(task \Rightarrow {
    const taskElement = document.querySelector(`li[data-id="${id}"]`);
    taskElement.querySelector('span').textContent = task.text;
    });
}
function deleteTask(id) {
  fetch(`/tasks/${id}`, { method: 'DELETE' })
  .then(() => {
    const taskElement = document.querySelector(`li[data-id="${id}"]`);
    taskElement.remove();
    });
}
function loadTasks() {
  fetch('/tasks')
  .then(response => response.json())
  .then(tasks => {
    tasks.forEach(task => appendTask(task));
    });
Backend (Node.js with Express)
mkdir todo-app
cd todo-app
npm init -y
npm install express body-parser
const express = require('express');
const bodyParser = require('body-parser');
const app = express();
```

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const port = 3000;
app.use(bodyParser.json());
app.use(express.static('public'));
let tasks = [];
let nextId = 1;
app.post('/tasks', (req, res) => {
  const newTask = { id: nextId++, text: req.body.text, completed: false };
  tasks.push(newTask);
  res.json(newTask);
});
app.get('/tasks', (req, res) => {
  res.json(tasks);
});
app.put('/tasks/:id', (req, res) => {
  const id = parseInt(req.params.id, 10);
  const task = tasks.find(t => t.id === id);
  if (task) {
    task.text = req.body.text;
    res.json(task);
  } else {
    res.status(404).send('Task not found');
     }
});
app.delete('/tasks/:id', (req, res) => {
  const id = parseInt(req.params.id, 10);
  tasks = tasks.filter(t => t.id !== id);
  res.sendStatus(204);
});
app.listen(port, () => {
  console.log(`Server running at http://localhost:${port}`);
});
```

node server.js