Ejemplo de arquitectura MVC

Crear directorio y e instala librerías

- mkdir todo-app
- cd todo-app
- npm init -y
- npm install express ejs

Estructura de programa

```
/todo-app
 /models
  taskModel.js
 /views
  index.ejs
  add.ejs
 /controllers
  taskController.js
 server.js
```

Servidor:

server.js

```
const express = require('express');
const taskRoutes = require('./controllers/taskController');
const app = express();
const PORT = 3000;
app.set('view engine', 'ejs');
app.use(express.urlencoded({ extended: true })); // Middleware para procesar datos de
formularios
app.use('/', taskRoutes);
app.listen(PORT, () => {
  console.log(`Server running at http://localhost:${PORT}`);
});
```

Implementación del patrón MVC:

taskModel.js

```
let tasks = []; // Simulando base de datos con un array
module.exports = {
    getAll: () => tasks,
    add: (task) => tasks.push(task),
    delete: (index) => tasks.splice(index, 1)
};
```

index.ejs

```
<!-- index.ejs -->
<h1>Tasks</h1>
ul>
 <% tasks.forEach((task, index) => { %>
  <|i>
   <%= task %>
   <a href="/delete/<%= index %>">Delete</a>
 <% }); %>
<a href="/add">Add Task</a>
```

add.ejs

taskController.js

```
const express = require('express');
const router = express.Router();
const taskModel = require('../models/taskModel');

router.get('/', (req, res) => {
    const tasks = taskModel.getAll();
    res.render('index', { tasks });
});

router.get('/add', (req, res) => {
    res.render('add');
});
```

```
router.post('/add', (req, res) => {
    taskModel.add(req.body.task);
    res.redirect('/');
});

router.get('/delete/:id', (req, res) => {
    taskModel.delete(req.params.id);
    res.redirect('/');
});

module.exports = router;
```