**Project Submission Report**

**Project Title: JSON Express Library**

**Team Members:**

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**1. Project Overview**

This project is a Node.js application using the Express framework. It consists of:

* A server-side backend serving JSON data through an API endpoint.
* A static front-end website with three HTML pages: Home, About, and API Demo.
* The API Demo page fetches book data from the server asynchronously and displays it dynamically.
* The JSON data includes a list of 6 books, each with details like title, author, genre, and description.

**2. Project Structure and Files**

* **app.js**: The main Express server file. It sets up the server, loads JSON data, and defines API routes.
* **data/data.json**: JSON file containing the books data.
* **public/**: Contains all the static front-end files:
  + **index.html**: The homepage.
  + **about.html**: Project description and information.
  + **api-demo.html**: The page that demonstrates API data fetching.
  + **style.css**: The stylesheet for all pages.
  + **script.js**: The JavaScript handling button click and fetching JSON data.
* **node\_modules/**: Installed npm packages (excluded from GitHub).
* **package.json** & **package-lock.json**: Node.js project dependencies and metadata.

**3. How to Run the Project**

1. Open terminal and navigate to the project folder.
2. Run npm install to install dependencies.
3. Run the server with node app.js.
4. Open a browser and go to http://localhost:3000/index.html.
5. Navigate through pages using the menu.
6. On the API Demo page, click the **Load Books** button to fetch and display book data dynamically from the server.

**4. Screenshots Included**

* Une image contenant logiciel, texte, Logiciel multimédia, Logiciel de graphisme

  Le contenu généré par l’IA peut être incorrect.Project folder structure in VS Code.
* Une image contenant texte, capture d’écran, Police

  Le contenu généré par l’IA peut être incorrect.Terminal showing current working directory.
* Each website page (Home, About, API Demo).

Une image contenant texte, Site web, Page web, logiciel

Le contenu généré par l’IA peut être incorrect.Une image contenant texte, Site web, Page web, logiciel

Le contenu généré par l’IA peut être incorrect.

* Une image contenant texte, capture d’écran, logiciel, Icône d’ordinateur

  Le contenu généré par l’IA peut être incorrect.API Demo page after clicking the **Load Books** button showing the fetched JSON data rendered.

**5. GitHub Repository**

The full project source code is available at:  
<https://github.com/Sekou2oo4/JSON-Express-Project>

**6. Notes**

* The node\_modules folder is excluded from the repository to reduce size.
* The project follows best practices for async data fetching using async/await.
* The front-end UI is styled with CSS for a clean and professional look.
* This project demonstrates the integration of a back-end Express API with a front-end static site.