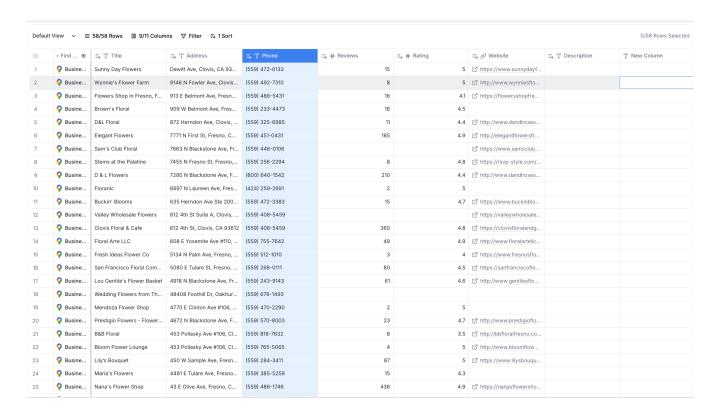
Frontend Project: Reactive Data Table in Next.js with Supabase and TailwindCSS



Objective:

Build a reactive, editable data table using Next.js, TailwindCSS, and Supabase that behaves similarly to Clay/Airtable. The table should support CRUD operations, pagination, and real-time updates. Please feel free to sign up for a free account at https://clay.com and create a table for yourself.

Requirements:

1. Next.js Setup:

- Set up a new Next.js project.
- Use TypeScript for better type safety and developer experience.

2. TailwindCSS Integration:

- Integrate TailwindCSS for styling the application.
- Ensure the UI is responsive and clean.

3. Supabase Setup:

- Create a new Supabase project.
- Define a schema for the table which should include at least 4 different data types (e.g., text, number, date, and images).
- Enable real-time capabilities on the table in Supabase.

4. Data Table Features:

- Data Display: Fetch and display data from Supabase in a table format.
- **Update and Enter Columns:** Allow users to directly edit the cell content and add new columns dynamically.
- Pagination: Implement infinite scroll feature.
- Selection: Able to select arbitrary number of rows and perform bulk updates (beyond the viewport shown columns)
- o Add/delete custom columns: Able to add/delete custom columns
- **Large Data Handling:** Efficiently handle and render up to 50,000 rows of data without performance degradation.
- Real-Time Updates: Utilize Supabase's real-time capabilities to reflect changes made to the data across all clients immediately.

5. Advanced Features:

- Implement search.
- Implement column sorting and filtering.
- Implement drag drop reordering

Deliverables:

1. Source Code:

- Push the complete source code to a Git repository.
- Include a README.md file with setup instructions and a brief description of the project.

2. Live Demo:

Deploy the application on Vercel.

o Provide a link to the live demo.

Evaluation Criteria:

- Code quality and readability.
- Correct implementation of features.
- UI design and responsiveness.
- Performance optimizations for handling large datasets.

Timeline:

Candidates are expected to complete the project within 1 week from the date of assignment.