

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

Default View 58/58 Rows 9/11 Columns Filter 1 Sort 0/58 Rows Selected									
	Find ...	Title	Address	Phone	Reviews	Rating	Website	Description	New Column
1	Busine...	Sunny Day Flowers	Dewitt Ave, Clovis, CA 93...	(559) 472-0133	15	5	https://www.sunnydayf...		
2	Busine...	Wynnie's Flower Farm	9146 N Fowler Ave, Clovis...	(559) 492-7310	8	5	http://www.wynniesflo...		
3	Busine...	Flowers Shop in Fresno, F...	913 E Belmont Ave, Fresn...	(559) 486-5431	16	4.1	https://flowersshopfre...		
4	Busine...	Brown's Floral	909 W Belmont Ave, Fres...	(559) 233-4473	16	4.5			
5	Busine...	D&L Floral	872 Herndon Ave, Clovis, ...	(559) 325-6985	11	4.4	http://www.dandroses...		
6	Busine...	Elegant Flowers	7771 N First St, Fresno, C...	(559) 451-0431	165	4.9	http://elegantflowersfr...		
7	Busine...	Sam's Club Floral	7663 N Blackstone Ave, Fr...	(559) 446-0106			https://www.samsclub...		
8	Busine...	Stems at the Palatine	7455 N Fresno St, Fresno, ...	(559) 256-2294	8	4.8	https://rsvp-style.com/...		
9	Busine...	D & L Flowers	7280 N Blackstone Ave, F...	(800) 640-1542	210	4.4	http://www.dandroses...		
10	Busine...	Floranic	6697 N Laureen Ave, Fres...	(424) 259-2691	2	5			
11	Busine...	Buckin' Blooms	635 Herndon Ave Ste 200...	(559) 472-3383	15	4.7	https://www.buckinblo...		
12	Busine...	Valley Wholesale Flowers	612 4th St Suite A, Clovis, ...	(559) 408-5459			https://valleywholesale...		
13	Busine...	Clovis Floral & Cafe	612 4th St, Clovis, CA 93612	(559) 408-5459	360	4.8	https://clovisfloralandg...		
14	Busine...	Floral Arte LLC	608 E Yosemite Ave #110, ...	(559) 755-7642	49	4.9	http://www.floralartellc...		
15	Busine...	Fresh Ideas Flower Co	5134 N Palm Ave, Fresno, ...	(559) 512-1010	3	4	https://www.fresnosflo...		
16	Busine...	San Francisco Floral Com...	5080 E Tulare St, Fresno, ...	(559) 268-0111	80	4.5	https://sanfranciscoflo...		
17	Busine...	Lou Gentile's Flower Basket	4918 N Blackstone Ave, Fr...	(559) 243-9143	61	4.6	http://www.gentilesflo...		
18	Busine...	Wedding Flowers from Th...	48408 Foothill Dr, Oakhur...	(559) 676-1493					
19	Busine...	Mendoza Flower Shop	4770 E Clinton Ave #106, ...	(559) 470-2290	2	5			
20	Busine...	Prestigio Flowers - Flower...	4672 N Blackstone Ave, F...	(559) 570-8003	23	4.7	http://www.prestigioflo...		
21	Busine...	B&B Floral	453 Pollasky Ave #106, Cl...	(559) 818-7632	8	3.5	http://bbfloralfresno.co...		
22	Busine...	Bloom Flower Lounge	453 Pollasky Ave #106, Cl...	(559) 765-5065	4	5	http://www.bloomflow...		
23	Busine...	Lily's Bouquet	450 W Sample Ave, Fresn...	(559) 284-3411	87	5	https://www.lilysbouqu...		
24	Busine...	Maria's Flowers	4481 E Tulare Ave, Fresno...	(559) 385-5259	15	4.3			
25	Busine...	Nana's Flower Shop	43 E Olive Ave, Fresno, C...	(559) 486-1746	436	4.9	https://nanasflowersho...		

## 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)
- **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.

- 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.