Frontend Assessment – React + TypeScript (Single File)

Objective
Build a small frontend application using **React with TypeScript** implemented in **a single file only** (e.g. App.tsx). The goal is to evaluate file handling, UI composition, state management, and API integration skills.

Technical Requirements
• React with TypeScript
• Single file only (App.tsx or equivalent)
• Tailwind CSS is required (CDN or inline setup allowed)
• No backend code
• Public / generic REST APIs only

Functional Requirements

1. File Upload (CSV or Similar)
• Allow the user to upload a CSV (or similar structured file)
• Parse the file on the frontend
• Display parsed rows in a table or list view

2. Field Mapping / Translation
• Allow mapping of CSV columns to predefined fields:
  – name
  – email
  – phone
  – address
• Mapping should be editable and reflected in the displayed data

3. Modals
• Use at least one modal for:
  – Field mapping
  – Data preview or confirmation
• Modal must be styled using Tailwind CSS

4. Form Fields
• Provide editable form fields for mapped data
• Include basic validation (required fields, email format, etc.)

5. REST API Integration
• Submit the transformed data via POST request to a public API such as:
  – https://jsonplaceholder.typicode.com/posts
  – https://reqres.in/api/users
• Display success or error feedback in the UI

UI / UX Requirements
• Clean and responsive layout
• Tailwind utility classes must be used
• Clear flow: Upload → Map → Review → Submit

Evaluation Criteria
• Code clarity and organization
• Correct TypeScript usage
• State management and data flow
• Modal implementation
• API handling and error states
• Effective use of Tailwind CSS

Bonus (Optional)
• Client-side validation enhancements
• Loading and disabled states
• Drag-and-drop file upload
• Clean logic despite single-file limitation