

Dynamic Input form

1. Task Description

Build a React form that allows users to dynamically add and remove input fields.

The form should start with a single input field. Users can add new fields (for example, to enter multiple entries or items) or remove existing fields. All changes should be immediately reflected in the component's state. On submission, the form should collect and process (e.g., log or send) all entered values.

2. Task Output Screenshot

Dynamic Input Fields

Field #1	Remove
Field #2	Remove
Field #3	Remove
Field #4	Remove
Add More	
Submit	

Dynamic Input Fields

Field #1	Remove
Field #2	Remove
Add More	
Submit	

3. Widget/Algorithm Used In Task

Components Used

- **Input Fields** : Allow users to enter data in each form field.
- **Buttons**:
 - **Add Field Button**: Lets users dynamically add new input fields to the form.
 - **Remove Field Button**: Allows users to delete specific fields, except the last one.
 - **Submit Button**: Collects and processes all entered values upon form submission.
- **Div Containers**: Group each input field with its associated "Remove" button for structured layout.
- **Form Tag**: Encloses all fields and handles form submission events.

Algorithms and State Management Logic

- **State Management:** Uses React's `useState` hook to maintain an array of field objects, each with a `value` property.
- **Dynamic Rendering:** Maps over the state array to generate an input field and "Remove" button for each item.
- **Input Handling:** When a user types into a field, the corresponding entry in the state array is updated (`handleInputChange`).
- **Field Addition:** Clicking "Add More" appends a new field object to the state array (`handleAdd`).
- **Field Removal:** Clicking "Remove" deletes the corresponding field from the state array, unless it is the last one (`handleRemove`).
- **Submit Logic:** On form submission, all field values are collected from the state for processing.
- **Immutability:** State updates use the spread operator to ensure immutability and correct reactivity.
- **Conditional Disabling:** The "Remove" button for the initial field is disabled to prevent the form from having zero fields.