

Inline Edit Aura Component - Detailed Explanation

This Aura component displays a list of Contact records in a lightning:datatable with inline editing support. Users can make edits directly in the table and save or cancel their changes.

1. Component Declaration:

The component uses an Apex controller called InlineEditController and is made available for Lightning Record Pages. The 'force:hasRecordId' interface provides the current record's ID when placed on a record page.

2. Attributes:

- contacts: Stores the list of Contact records.
- columns: Stores column configuration.
- draftValues: Stores unsaved edits from the datatable.

3. Init Handler:

The init handler calls the doInit method in the JS controller to load column configuration and fetch data from Apex.

4. lightning:datatable:

Displays data, supports inline editing when columns have 'editable:true'. The onsave and oncancel events handle saving or discarding edits.

5. Save & Cancel Buttons:

Additional buttons call the same handlers as the datatable events but without event parameters, so the controller must handle both cases.

6. Flow:

- doInit loads columns and data.
- User edits update draftValues.
- User saves -> updates sent to Apex, draftValues cleared.
- User cancels -> draftValues cleared and data refreshed.

7. Common Gotchas:

- inlineEdit attribute isn't valid, only editable:true is needed in columns.
- Button clicks don't pass draftValues in event.
- keyField must be unique, 'Id' is correct.

Code Snippet:

```

<aura:component controller="InlineEditController"
    implements="flexipage:availableForRecordHome,force:hasRecordId"
    access="global">

    <!-- Attributes -->
    <aura:attribute name="contacts" type="Contact[]"/>
    <aura:attribute name="columns" type="List"/>
    <aura:attribute name="draftValues" type="Object[]"/>

    <!-- Init -->
    <aura:handler name="init" value="{!this}" action="{!c.doInit}"/>

    <!-- Data Table -->
    <lightning:datatable
        keyField="Id"
        data="{!v.contacts}"
        columns="{!v.columns}"
        draftValues="{!v.draftValues}"
        onSave="{!c.handleSave}"
        onCancel="{!c.handleCancel}"
        hideCheckboxColumn="true"
        inlineEdit="true"/>

    <!-- Buttons -->
    <div class="slds-m-top_medium">
        <lightning:button variant="brand" label="Save" onClick="{!c.handleSave}"/>
        <lightning:button variant="neutral" label="Cancel" onClick="{!c.handleCancel}"/>
    </div>
</aura:component>

```