Creating Components for Sobjects

Apex invocations using anonymous callback function

How to invoke Aura Enabled Apex contollers similar to vf pages

- Apex controller methods can be invoked from Component controllers
- Write your apex class and method first with required logic
- <aura:component controller="ContactController">
- Add a reference to the controller to your component (similar to visualforce pages)
- Add @AuraEabled Annotation to the method you plan to invoke in your lightning component

```
public with sharing class ContactController {
    @AuraEnabled
    public static String retcontactname(Id id) {
    List<Contact> con = new List<Contact>();
        con = [SELECT name FROM Contact where id =:id];
        return con[0].name;
    }
}
```

Howal droval the Merk the Aptendent to lers • Get a reference of the method inside the javascript component

- Get a reference of the method inside the javascript component controller methods for example : var action = component.get("c.retcontactname");
- Set parameters for the apex class method
- Set object.setcallback method which invokes the controller method and gets the result of the call. Assign the return variables if any to any attributes of the component
- Finally add this line \$A.enqueueAction(action); to the method ,this will queue your request to the server.

```
//first get action variable intialised with controller meth
| var action = component.get("c.retcontactname");
   action.setParams({ id: component.get("v.Conid") });
   action.setCallback(this, function(a) {
      component.set("v.ContactName", a.getReturnValue());
      alert(a.getReturnValue());
   });
   $A.enqueueAction(action);
```

Callbacks status

- NEWThe action was created but is not in progress yet
- RUNNINGThe action is in progress
- SUCCESSThe action executed successfully
- ERRORThe server returned an error
- INCOMPLETEThe server didn't return a response.

Common Errors-will take up most of your debuggin' time

- Case sensitivity affects variable names
- Missing, when multiple controllers are added
- Wrong field names in the component
- Writing logic in application bundle instead of component bundle
- Parameter names or values are wrong
- SetCallback errors: Wrong method name (casesensitive), Wrong params passed, incorrect variable names.
- SetCallback works but result is delayed due to network, add redirect code inside the callback } sections
- Js methods like action.setCallback, \$A.enqueueAction will not work if not written in exact case as mentioned in documentation. For example enqueaction wont work.

Create lightning Component to Save .edit ,delete
 Contact Data to replace visualforce page functionality

Key interfaces to be implemented

- implements="lightning:actionOverride,
- force:lightningQuickAction,
- force:appHostable,flexipage:availableForAllPageTypes,
- flexipage:availableForRecordHome,l
- ightning:actionOverride,
- force:hasRecordId" automatically created recordid variables and fills with Id of current record in edit mode

Important methods

- Save and Edit logical functions should be created based on recordid
- Save and edit will call same apex class but different methods for different purposes
- Save and edit will pass correct parameters to class via
- action.setParams({Idd :component.get("v.recordId")});
- //
- action.setCallback(this, function(a) {

Important methods

 Use the do init method in js controller to invoke an apex class to fill the data in edit mode, incase the button is overriden by lightning component

Implement SLDS

- Use SLDS ready bootstrap to create forms
- Define correct Sobject variables

event.fire();

- Define relevant attributes for fields
- Fill up the data in edit mode by doing a fetch in the init methods.
- Pass and save correct data and perform redirection

How are components rendered

- Components can be embedded in an Lightning application
- Expose them as lightning tabs or Apps
- Expose them as standard button overrides
- Within Developer console you can only preview application containing components
- Redirection may not happen within developer console
- Practise: Create the component and show it in app/tab