

Salesforce Integrate Maps

lightningMapController.apxc

/*

Support API: 47.00

Author: Mahesh Ambati

Source: Prowess Software Services

*/

```
public with sharing class lightningMapController {
    @AuraEnabled
    public static list<accountLocationWrapper> getLocation(){
        list<accountLocationWrapper> lstALW = new list<accountLocationWrapper>();
        /*Query accounts records with billing address information */
        for(account acc : [Select Name,description, BillingCountry, BillingCity, BillingPostalCode, BillingStreet,
BillingState
                        From Account
                        Where BillingCountry != null
                        And BillingCity != null
                        limit 10]){
            // first create "locationDetailWrapper" instance and set appropriate values
            locationDetailWrapper oLocationWrap = new locationDetailWrapper();
            oLocationWrap.Street = acc.BillingStreet;
            oLocationWrap.PostalCode = acc.BillingPostalCode;
            oLocationWrap.City = acc.BillingCity;
            oLocationWrap.State = acc.BillingState;
            oLocationWrap.Country = acc.BillingCountry;

            // create "accountLocationWrapper" instance, set values and add to final list.
            accountLocationWrapper oWrapper = new accountLocationWrapper();
            oWrapper.icon = 'utility:location'; // https://www.lightningdesignsystem.com/icons/#utility
            oWrapper.title = acc.Name;
            oWrapper.description = acc.description;
            oWrapper.location = oLocationWrap;

            lstALW.add(oWrapper);
        }
        // retrun the "accountLocationWrapper" list
        return lstALW;
    }
}
```

```

/*Account details fetching */
    Public Static List<Account> getSearchAccount(String AccountSearch){

        string searchquery='select Id,Name from Account where name = like \'%'+AccountSearch+'%\ ' Limit 20';
        List<Account> acc = Database.query(searchquery);
        return acc;
    }

/* wrapper class to store required properties for "lightning:map" component' */
public class accountLocationWrapper{
    @AuraEnabled public string icon{get;set;}
    @AuraEnabled public string title{get;set;}
    @AuraEnabled public string description{get;set;}
    @AuraEnabled public locationDetailWrapper location{get;set;}
}
/* sub wrapper class to store location details for "accountLocationWrapper" location property.*/
public class locationDetailWrapper{
    @AuraEnabled public string Street{get;set;}
    @AuraEnabled public string PostalCode{get;set;}
    @AuraEnabled public string City{get;set;}
    @AuraEnabled public string State{get;set;}
    @AuraEnabled public string Country{get;set;}
}
}

```

lightningMapController.cmp

<!--

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-->

```

<aura:component controller="lightningMapController"
implements="force:appHostable,flexipage:availableForAllPageTypes,flexipage:availableForRecordHome,force:hasRecordId,forceCommunity:availableForAllPageTypes,force:lightningQuickAction" access="global">
    <!-- aura attributes to store Map component information -->
    <aura:attribute name="mapMarkersData" type="Object"/>
    <aura:attribute name="AccountSearch" type="string"/>
    <aura:attribute name="mapCenter" type="Object"/>
    <aura:attribute name="zoomLevel" type="Integer" default="4" />
    <aura:attribute name="markersTitle" type="String" />
    <aura:attribute name="showFooter" type="Boolean" default="true"/>

    <!-- init handler which will call 'doInit' fuction on component load-->
    <aura:handler name="init" value="{! this }" action="{! c.doInit }"/>

```

```

<lightning:input label="AccountSearch" value="{!v.AccountSearch}"/>

<lightning:Button label="Search" onclick="{!c.Search}"/>
<!-- render map component only when we have at least 1 record in list.(mapMarkersData)
-->
<aura:if isTrue="{!v.mapMarkersData.length > 0}" >
    <!-- the map component -->
    <lightning:map mapMarkers="{! v.mapMarkersData }"
        center="{! v.mapCenter }"
        zoomLevel="{! v.zoomLevel }"
        markersTitle="{! v.markersTitle }"
        showFooter="{! v.showFooter }" />
</aura:if>
</aura:component>

```

lightningMapController.js

```

({
    doInit: function (component, event, helper) {
        // call getLocation apex class method
        var action = component.get("c.getLocation");
        action.setCallback(this, function(response) {
            var state = response.getState();
            if (state === "SUCCESS") {
                // set mapMarkersData attribute values with 'accountLocationWrapper' data
                component.set('v.mapMarkersData',response.getReturnValue());
                // set the mapCenter location.
                component.set('v.mapCenter', {
                    location: {
                        Country: 'United States'
                    }
                });
                // set map markers title
                component.set('v.markersTitle', 'Account members.');
```

```

});
$A.enqueueAction(action);
},

// get Accounts
Search : function(component, event, helper) {
    var action = component.get("c.getSearchAccount");
    action.setParams({ searchText : component.get("v.AccountSearch") });

    action.setCallback(this, function(response) {
        var state = response.getState();
        if (state === "SUCCESS") {
            component.set('v.mapMarkersData',response.getReturnValue());
            component.set('v.mapCenter', {
                location: {
                    Country: 'United States'
                }
            });

            // component.set('v.searchResult',response.getReturnValue().length);
            //alert("From server: " + response.getReturnValue());
        }
        else if (state === "INCOMPLETE") {
            // do something
        }
        else if (state === "ERROR") {
            var errors = response.getError();
            if (errors) {
                if (errors[0] && errors[0].message) {
                    console.log("Error message: " +
                        errors[0].message);
                }
            }
            else {
                console.log("Unknown error");
            }
        }
    });
    $A.enqueueAction(action);

}
})

```

TestApp.app

```
<aura:application extends="force:slds">
  <c:lightningMapController/>
  <!-- here c: is org. default namespace prefix-->
</aura:application>
```

After implementing Salesforce Maps we have added Lightning component to Lightning ComponentTab

Navigation: Setup---> Quick find box ----> Tabs---> Lightning Component Tabs -> New -> Component Name Like "C:lightningMapController"

Scope: Search the account on the map by using city name

Screen Shots:-

