

Salesforce Lightning

Lesson 05: Standard and Force.com components

Lesson Objectives

- Standard Components and Force.com components
- Handling events using client side controller



Standard Components

- These are out of the box components to speed up Lightning app development
- Standard components are components that can be used in a standalone Lightning app and in Salesforce1, such as `<aura:iteration>` or `<ui:inputText>`
- Force.com components are those that are optimized for use with Salesforce1
- e.g: `forceChatter:feed`

UI Components

- Users interact with our app using UI components
- `ui:inputText`, `ui:inputCheckBox` correspond to common input elements
- To use input components in your custom component , add them to your `.cmp` or `.app` resource
- `Aura:id` attribute defines a unique ID that enable you to reference the component from your JavaScript code using `cmp.find("myID");`

More Components

```
<aura:iteration> component
<!--myNamespace:myListComponent-->
<aura:component>
    <aura:attribute name="numbers" type="List"/>
    <ui:button press="{!c.getNumbers}" label="Display Numbers" />
    <aura:iteration var="num" items="{!v.numbers}">
        {!num.value} <br></br>
    </aura:iteration>
</aura:component>

({
    getNumbers: function(component) {
        var listOfNum = [];
        for (var i = 0; i < 10; i++) {
            listOfNum.push({ value: i });
        }
        component.set("v.numbers", numbers);
    })
})
```

Force.com components

Can run in Salesforce 1

Example:

```
<aura:component implements="force:appHostable">  
    <forceChatter:feed type="news"/>  
</aura:component>
```

Demo

Demo on UI Component



Handle Event using Client Side Controller

- Handling events like Button click in a component
- If we write a Javascript code in a component, it will not execute

```
<aura:component>  
<aura:attribute name="text" type="String" default="Just a string. Waiting  
for change."/>  
<input type="button" value="Flawed HTML Button" onclick="alert('this will  
not work')"/>  
</aura:component>
```

- So we need to write the Javascript handler in a client side controller

Server side controller

Create a server side controller using apex class

Create this apex class with sharing option

Lightning components do not enforce CRUD or FLS
to take care of this use with sharing

Methods on server side components should be static – to make them stateless

```
public with sharing class SimpleServerSideController {
```

```
    //Use @AuraEnabled to enable client- and server-side access to the method
```

```
    @AuraEnabled
```

```
    public static String serverEcho(String firstName) {
```

```
        return ('Hello from the server, ' + firstName);
```

```
    }
```

```
}
```

Calling controller from lightning component

```
<aura:component controller="SimpleServerSideController">  
    <aura:attribute name="firstName" type="String" default="world"/>  
    <ui:button label="Call server" press="{!c.echo}"/>  
</aura:component>
```

Program client side echo to handle these action

Demo

Component Demo



Summary

Standard Components and Force.com Components

Handling events

Server side controller





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