

# lightning Aura Component Interview Q&A

Q-A  
10

Q-1) what is Lightning Experience ?

① Lightning means you can create a user experience that improves productivity, makes jobs easier & more intuitive.

② it is fast, beautiful and unique to each sales and service user.

③ it is a simpler user experience.

designed to help sales team sell faster, with personalized alerts and an interactive dashboard to keep sales reps focused on what's important.

④ Helps Service reps support customers faster and provides problem solving environment.

Q-2) what is lightning Component framework?

① The lightning component framework is a UI framework for developing web apps for mobile and desktop devices.

② it is used for building single-page applications with dynamic, responsive user interfaces for lightning platform apps.

③ it uses Javascript on the client side and Apex on the service side.

Q-3) what is lightning Component ?

① A lightning component is a bundle that includes a definition resource written in markup and may include resources like a controller, helper, renderer, style etc.

Q-4) what is Aura?

- ① Aura is an open-source VF framework used for developing dynamic web apps for mobile and desktop devices.
- ② To build lightning components in Salesforce lightning experience we use the lightning component framework.
- ③ Lightning Components are built on top of AuraJS API of Salesforce.

Q-5) Difference b/w VF & Lightning Component?

Lightning Component	VF
① Client Side VF Generation.	① Server Side VF Generation.
② API Centric model	② Page Centric Model
③ Component Based Framework	④ MVC Framework
④ JavaScript Framework	⑤ Tag Based Language
⑤ Designed for lightning Experience and mobile App	⑥ Designed before Salesforce classic.

Q-6) Lighting Component Bundles includes - ?

Resource	Resource Name	Usage
① components	Sample:cmp	The only resource required in a
② Application	Sample:app	component, page, bundle

③	css styles	Sample.css: Styles for the component.
④	Controller	sampleController: Client-side controller is Methods to handle events in the component.
⑤	Design	Sample design required for components used in the lightning App Builder on lightning pages.
⑥	Helpers	SampleHelper.js: JavaScript function that can be called from any JavaScript code in a component's bundle.
⑦	Documentation	sample.documentation: A description, sample code and one or multiple references to example component.
⑧	Renderers	sampleRenderer: Client-side renderer to override default rendering for a component.
⑨	SVG	sample.svg: Custom icon resource for components used in the lightning App Builder.

Q-7) Which interfaces are used in lightning Components?

- ① force: appHostable for Lightning Tabs
- ② flexipage: availableForAllPageTypes for lightning pages
- ③ flexipage: availableForRecordHome for lightning Record pages
- ④ force: hasRecordId for Lightning Record page to fetch current record id.

⑤ forceCommunity: available for All Page Types for Experience Builders Site page.

⑥ force:lightningQuickAction for Lightning Quick Action.

### Q-8) Lightning Design System

→ ① The Salesforce Lighting Design System includes the resources to create user interfaces consistent with the Salesforce lightning principles, design language, and best practices.

② Rather than focusing on pixels, developers can focus on application logic, while designers can focus on user experience, interactions and flows.

### Q-9) Benefits of Helper

→ ① concise functions defined in helper.

② helpers for defining data processing task and querying service-side actions.

③ Helper functions are local to a component

④ move the code from controllers to helper whenever possible.

⑤ Helper function can be called from any javascript code in a component's file such as `app.js`.

⑥ client-side controllers: ex

⑦ Renderers, components, services

⑧ Every helper functions can be called within helper itself by another function.

⑨ Helper function are similar to client-side controllers function in shape.

Q-10) Controller vs Helper ?

- ① Use Controller to listen to user events and other events like component and application events. But delegate business logic to helper.
- ② Do similar delegation in all render functions (like renders, render and so on)
- ③ whenever you need to call one controller function from another controller function, move that code to helper.

Q-11) Can we include a component in another?

- Yes, we can build parent-child hierarchy while building component.

Q-12) What is Message Passing b/w Components?

- ① parent Component to child components
  - ① Attribute
  - ② Aura Method.
- ② child Component to parent Component.
  - ① Component Event.
  - ② Aura Action

Q-13) How to perform conditional rendering?

```
<aura:if isTrue="{!v.flag}">
    true block
</aura:if>
<aura:else>
    false block
</aura:else>
</aura:if>
```

(Q-14) How to implement Iteration ?

→ <aura:iteration items="!v.Hst" var="item">

block of code

</aura:iteration>

(Q-15) What is attribute ?

→ (1) Attribute are similar to variables  
Created in Components.

(2) We can get and set values into attributes in JavaScript Controller.

### Example

Part 1 <aura:attribute name="FirstName" type="String"/>

Part 2 <input type="text" value="!v.FirstName" />

→ <aura:attribute name="FirstName" type="String" default="Sanjay"/>

<this> binds to this program

{ !v.FirstName }

</div>

(Q-16) What is the use of init handler ?

→ Through init handler we can execute the code on load of component.

(Q-17) How to call Controller function in Component ?

→ <aura:handler name="init" value="!this">  
action="{:myAction}" />

myAction : function (component, event, helpers) {  
// Block of code

}

- (Q-19) what is the use of `@AuraEnabled` annotation ?  
→ `AuraEnabled` annotation enables lightning component to access Apex Methods and properties.
- (Q-20) How we call Apex method in Component ?  
→ ① we can call Apex class methods through JavaScript controller.  
② Also remember to use the name of apex class in component's view file.
- (Q-21) Can we include a lightning component in lightning page ?  
→ Yes.
- (Q-22) Can we include external JS or css libraries in Component ?  
→ Yes, we can use multiple libraries in our lightning component like jQuery, Bootstrap, custom CSS and custom JavaScript libraries using static resources.
- (Q-23) How to pass data from parent to child Component  
→ Unbound Expression  
<aura:Component>  
<aura:attribute name = "parentAttr" type = "String"  
default = "parent attribute"/>  
<c:child childAttr = "{!v.parentAttr}"/>  
</aura:Component/>

## Boundary Expression

<aura: component>

aura: attribute name = "parentAttr" type = "String"

aura: default = "first parent attribute" /> <sup>(ex)</sup> <sub>value</sub>

aura: child childAttr = "/{!v.parentAttr}/"

<aura: Component/>

## Q-24) Aura Method VS Aura Action

- (A) Aura Method → <sup>(function)</sup> <sub>value</sub>
- ① method is defined in child of Component.
- ② aura method's attribute receives data from parent Component.

- (B) Aura Action → <sup>(function)</sup> <sub>value</sub>
- ① method is defined in parent Component.
- ② parent Component's method receives data from child of Component.

## Q-25) Types of Event ?

→ (A) Browser Event

① onchange, onclick, ondblclick, etc.

(B) System Event

① init, render, locationChange, etc.

② Custom Event <sup>(function)</sup> <sub>value</sub>

③ Component, Application

<sup>(function)</sup> <sub>value</sub>

- Q-26) what is Event ?
- ① Event-driven programming is used in many languages and frameworks, such as javascript and Java Swing.
  - ② In lightning a component registers that it may fire an event in its markup.
  - ③ Events are fired from Javascript controller actions that are typically triggered by a user interacting with the User interface.

- Q-27) Example of System Event ?

→ <lightning:select name="SelectItem" label="Select an item"

onchange=" {!c.doSomething()}"

doSomething: function (component, event, helper) {

// write some code up here

- Q-28) what is Browser Event ?

→ <lightning:select name="SelectItem" label="Select an item"

onchange=" {!c.doSomething()}"

doSomething: function (component, event, helper) {

// write some code up here

Q-30) what is Component Event ?

- ① A Component event is fired from an instance of a component.
- ② A component event can be handled by the component that fires the event or by a component in the containment hierarchy that receives the event.
- ③ Steps are:
- ① Create custom Component Event.
- ② Register Component Event.
- ③ Fire Component Event.
- ④ Handle Component Event.

Q-31) Important about Component Event ?

- ① Here child component will pass parameters to Event Component's attributes.
- ② Then parent component will fetch those attributes from Event Component attributes.
- ③ Component Event works in a parent child hierarchy only.

Q-32) what is Application Event ?

- ① An application event is fired from an instance of a component.
- ② All components that provide a handler for the event are notified.
- ③ It goes to application first and then app broadcast it to each component in app and can handle that event in any component.

## Q Steps :-

- ① Create Custom Application Event.
- ② Register Application Event.
- ③ Fire Application Event.
- ④ Handle Application Event.

- (Q-33) → what is Event propagation ?  
① The framework supports capture & bubble phases for the propagation of component or appn events.  
② These phases provide an opportunity for interested components to interact with an event and potentially control the behavior for subsequent handlers.  
③ The component that fires an event is known as the source component.  
④ The framework allows you to handle the event in different phases.  
⑤ These phases give you flexibility for how to best process the event for your appn.

- (Q-34) → Bubble phase :-  
① The component that fires the event can handle it.  
② The event then bubbles up from the source component to the appn root.  
③ The event can be handled by a component in the containment hierarchy that receives the bubbles event.  
④ Event handlers are invoked in order from the source component that fired the event up to the appn root.

Q-35) Capture phase?

- ① The event is captured and trickles down from the application root to the Source component.
- ② The event can be handled by a component in the containment hierarchy that receives the captured event.
- ③ Event handlers are invoked in order from the application root down to the Source component that fired the event.

Q-36) What is Lightning Data Services?

- ① LDS help to insert, create, edit or delete a record in Component without requiring Apex code.
- ② LDS handles sharing rules and FLS.
- ③ Components:

  - i) force:recordData
  - ii) force:recordEdit
  - iii) force:recordView
  - iv) lightning:recordForm
  - v) lightning:recordEditForm
  - vi) lightning:recordViewForm

Q-37) How to get current record id in lightning

- Component (allied at annotations)
- ① implement force:HasRecordId interface.
- ② Create an attribute named as recordId which will fetch the current record id automatically if component is placed on record page.

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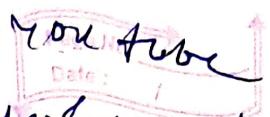


Q3g) How can we deploy lightning components?  
Lightning components can be deployed like any other component using salesforce set, ant migration tool, Gearset, Copado or other migration tool.

Q3g) Difference b/w v and c?

- ① These are known as value provider for a component.
- ② v (view) helps to access component attribute value in markup.
- ③ c (controller) helps to link with event handlers and action for the component.

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Collections :-

① Lists :- A list is an ordered collection of elements.

② Sets :- A set is an unordered collection of elements that do not contain any duplicates.

③ Maps :- A map is a collection of key-value pairs where each unique key maps to a single value.

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