Salesforce Lightning Web Component (LWC) Interview Questions

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LWC Interview Questions

General Interview Question with Answers

1. What is Aura Framework?

Aura is an open source framework developed by Salesforce. It is a component-based framework to develop UI components.

2. What is Lightning Framework?

Lightning Framework is based on Aura Framework to design and develop Salesforce Aura components. Lightning framework is also developed by Salesforce, but unlike Aura Framework, it is not open source.

3. In which Salesforce release, Lightning Components were introduced?

Lightning was introduced in Salesforce Winter 15 release.

4. How to create a Lightning Web Component?

you cannot create LWC directly from your developer console. You need to SFDX or MS Visual Code to create your lightning component.

5. Is it Work Together with Lightning Web Components and Aura Components?

Yes, Lightning web components and aura components work together without any issues. Aura components can contain Lightning web components, but Lightning web components can't contain aura components.

6. What is a @track decorator in js file?

It will keep track of the property's value changes. This decorator is used to make a property private and which helps to re-render the component when the property value is changed.

7. What is a @api decorator in js file?

It is used to expose the public property of a web component. this property can use in it's parent component.

8. What is a @wire decorator in js file?

To access Salesforce data (calling an apex method), Lightning web components use a reactive wire service.

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9.What is Web Stack?

Collection of software applications needed for the Web Development can be called as Web Stack.

It includes -

* Operation System

* Database

* Business Logic

* Web Server

10. What is rendering?

The process of converting HTML tags to meaningful readable web page with the browser rendering engine.

11. What are the Standard Elements?

The elements provided in HTML library. We can also create custom element as per the requirement which won't be part of standard HTML library.

12. What is event?

When the page load completes or user perform mouse or keyboard operation events will trigger which can used to execute the javaScript.

13. What is Module?

A module is a javaScript file.

In a module we define variables and functions which can be exposed to other module by using "export" directive.

To use the variables and functions of the other module we need to import other module by using "import" directive.

The reason of using module is to decompose the logic. Instead of making all the functions available within the same file, if they maintain the functions in different files, based on the need we can import the corresponding module.

14. What is Directive?

It is a token which is having specific behavior.

Example: export, import

It modifies the behavior of an existing element by assigning value and responding to change events

15. What is Decorator?

It is a function which is having predefined functionality.

Syntax: @DecoratorName

Similar to annotations in apex class.

16. What is Shadow DOM?

It is just a normal DOM except the separate behavior in relation to the rest of the page. It won't be having conflicts with the styles which applied to the rest of the page. It maintains in a separate DOM tree. (Alternative to iframe)

17. What are the Custom Elements?

Custom elements can be created to extend HTML and define our own tags.

18. What is template?

It is a reusable structure in the HTML page but it won't be rendered until we refer it in the javaScript.

19. What is Slot?

It is a place holder in template and the content can be replaced based on the need.

20. What are the Web Components?

It holds collection of web platform APIs and allows you to create custom functionality which can be used in Web Pages.

21. What are the Lightning Web Components?

Lightning Web Components uses core Web Components standards. Lightning web components are custom HTML elements built using HTML and modern JavaScript.

22. What is class in javaScript?

A class is a type of function, but instead of using the keyword function to initiate it, we use the keyword class, and the properties is assigned inside a constructor() method.

23. What is Scratch org?

Scratch org is a disposable Salesforce org used for development and testing. Scratch org can be created for a maximum of 30 days after which scratch org gets deactivated. The default duration for Scratch org is 7 days.

24. Explain the Lightning Web Component Bundle?

LWC bundle contains an HTML file, a JavaScript file, and a metadata configuration file and these files are created once we create a Lightning web component.

25. Explain CSS in Lightning Web Component Bundle?
We can also create a .css file for styling purpose and We can also create SVG file for the purpose of displaying icon.

26. How to render the HTML file conditionally?
If we want to render HTML conditionally we can make use of if:true={propertyName},if:false={propertyName} in nested template tag.

27. How to iterate over an array in HTML file?
We can make use of for:each directive and iterator directive.
for:each directive:
for:each directive is used to render an array. To render an array add the for:each directive to a nested template tag, for:item is used to access the current item, for:index is used to access the current index.
Iterator directive:
If you have the requirement to access the first and the last element in the list use the iterator directive.

28. What are the types of decorators in lightning web components?
We have 3 Decorators in Lightning Web Components.
1) @api
2) @track
3) @wire

29. Explain all three decorators in lightning web components?
See course material for answers

30. What is the file structure of Lightning Web Components
myComponent folder
myComponent.html
myComponent.js
myComponent.js-meta.xml
myComponent.css
myComponent.svg

The folder and its files must follow these naming rules.

- Can't contain a hyphen (dash)
- Must begin with a lowercase letter
- Can't include whitespace
- contain only alphanumeric or underscore characters
- Can't end with an underscore
- Must be unique in the namespace
- Can't contain two consecutive underscores

31. How can you display components HTML conditionally

To render HTML conditionally, add the if:true|false directive to a nested <template> tag that encloses the conditional content.

32. How we can bind data in LWC

In the template, surround the property with curly braces, {*property*}. To compute a value for the property, use a JavaScript getter in the JavaScript class, get *property*(){}. In the template, the *property* can be a JavaScript identifier (for example, person) or dot notation that accesses a property from an object (person.firstName). LWC doesn't allow computed expressions like person[2].name['John']. Don't add spaces around the property, for example, { data } is not valid HTML

33. How we can pass data from HTML to JS controller?

We can use the onchange attribute to listen for a change to its value. When the value changes, the handleChange function in the JavaScript file executes.

34. How we can iterate list in Lightning Web Component (LWC)

We have two options available here:

for:each

When using the for:each directive, use for:item="*currentItem*" to access the current item. This example doesn't use it, but to access the current item's index, use for:index="*index*".

Iterator

To apply a special behavior to the first or last item in a list, use the iterator directive, iterator:*iteratorName*={*array*}. Use the iterator directive on a template tag.

Use *iteratorName* to access these properties:

- value—The value of the item in the list. Use this property to access the properties of the array. For example, *iteratorName*.value.*propertyName*.
- index—The index of the item in the list.
- first—A boolean value indicating whether this item is the first item in the list.
- last—A boolean value indicating whether this item is the last item in the list.

35. Can we display multiple templates
Yes we can, We can import multiple HTML templates and write business logic that renders them conditionally. This pattern is similar to the code splitting used in some JavaScript frameworks.

36. What are the public properties in Lightning Web Component
Public properties are reactive. If the value of a public property changes, the component rerenders. To expose a public property, decorate a field with @api. Public properties define the API for a component.

37. How to set Property from Parent component to child component
To communicate down the containment hierarchy, an owner can set a property on a child component. An attribute in HTML turns into a property assignment in JavaScript.

38. How we can pass data from parent component to child component
LWC support one way data transfer from parent to child. A non-primitive value (like an object or array) passed to a component is read-only. So the component cannot change the content of the object or array. As a result if the component tries to change the content, we will get errors in console.

39. Can we have Pagination in LWC?
Yes, by using Server side controllers with Ofset in SOQL Query

40. Explain lookup in LWC
There are 2 Lightning web component.

1. **lwcLookup** - Contain actual code to fetch records and display as lookup.

2. **lookupContainer** - Shows how to call lwcLookup and it's properties.

Question Only

(Refer to Course Material for Answers and Related Topics)

01. What is a Lightning Web Components?

02. What are the advantages of using LWC over Lightning components?

03. What is Shadow DOM in LWC?

04. What is ES Module in LWC ?

05. Callout some differences between AURA and LWC?

06. When do you choose to use LWC ?

07. How will you choose to develop a component in LWC or AURA?

08. Which are the features supported by LWC?

09. Name few Unsupported features of LWC

10. What are the prerequisite of setting up LWC Dev Env.

11. Which tool do we use to develop LWC?

12. What is the role of SFDX in LWC?

13. Why we need Extension Pack in LWC Development?

14. How do you deploy LWC Component from MS VS Code?

15. What is Dev Hub and whats its use?

16. What is Scratch Org?

17. What is the use and purpose of scratch org in LWC?

18. What is the max validity of a scratch org?

19. How many Scratch org can you create?

20. Who creates scratch org in Realtime?

21. What is LWC Bundle?

22. What are the elements of LWC Bundle and Explain them?

23. What is the use of HTML element of LWC Bundle?

24. What is the use of .JS element in LWC Bundle?

25. What is the use of JS-Meta.xml element in LWC Bundle?

26. What is target in LWC js-meta.xml ?

27. How will you add custom CSS in LWC?

28. What is public property in LWC ?

29. What is @api and whats is its use ?

30. When do you use @api?

31. What is @track and whats is its use ?

32. When do you use @track?

33. What is @wire and whats is its use ?

34. When do you use @wire?

35. What is the difference between @api & @track ?

36. What are the different ways you can access Salesforce data in LWC ?

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37. What are record forms? How many type of recordforms are available?

38. When do you use recordforms?

39. What type of service is @wire?

40. Explain @wire syntax

41. Can you wire a function or a property?

42. What is dynamic parameter in @wire?

43. Where and how you use dynamic parameter in wire service?

44. What is getListUi in wire ?

45. What is the purpose of getPickListValues in wire ?

46. What is the difference between getRecord and GetRecordUi?

47. What are the different ways you can call server side controller?

48. Why do we use @AuraEnabled in a method?

49. Can you use multiple @AuraEnabled for multiple method?

50. What do you understand by calling an apex method Imperatively?

51. What the syntax for calling an apex method Imperatively?

52. What is LWC Event?

53. Explain LWC event Flow

54. How do you create and Dispatch event in LWC?

55. How do you handle event in LWC?

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56. What is difference between AURA Event and LWC Event?

57. How different is LWC Event Handling to AURA Event handlining?

58. What is Decelerative Event Handling?

59. What is programmatically event handling?

60. Explain LWC Event propagation

61. What is bubbles in LWC ?

62. How do you control LWC Event propagation?

63. What the use of composed in LWC event?

64. How do you communicate between LWC Components?

65. What is Singleton ?

66. What is PubSub?

67. Explain subscribing and Unsubscribing in Event communication.

68. Explain LWC event best practices used

69. What is LWC Life cycle hook?

70. What is super and whats the use of super in LWC ?

71. Does Super has return statement?

72. What is a constructor in LWC?

73. Explain the use and need of a Constructor in LWC

74. What are the limitations of constructors in LWC?

75. Callout few action that cannot be implemented with Constructor in LWC

76. What is callback() in LWC?

77. What is Error and Data is LWC and whats is use/purpose ?

78. How can you call a LWC outside Lightning framework ?

79. Can you access/call LWC component in VF Framework?

80. What is lightningout?

81. What is the use of lightning.use and lightning.create?

82. How do you debug LWC program?

83. Does Aura & LWC can coexist in same env.?

84. What is coexistence strategy? Explain

85. What is Nested composition?

86. What do you mean by Side-By-Side composition?

87. How do you perform testing in LWC?

88. What is jest in LWC? And explain its use.

89. Explain LWC Testing steps

90. How can you migrate a AURA component to LWC?

91. How will you choose/decide which AURA component to migrate?

92. What is lightning locker in LWC?

93. Can you calloutout external endpoint url from LWC?

94. How can you make API Call from LWC?

95. Explain continuation in LWC.

96. Explain few continuation limits

97. How can you deploy a LWC component to a Tab or as Standalone App?

98. What are deployment tools of LWC?

99. How do you migrate LWC component from Sandbox to Production?

100.   Explain few issues and challenges you faced using LWC in your work