LWC Interview Questions

1. **Why we need LWC when we have aura components**
2. **How to create reusable method in LWC which can be used in multiple LWC components?**
   1. We can create reusable method with the help of utility module, which is simple LWC component without html file.
   2. In JS file we can write our common methods and export.
   3. In other component we can import those methods wherever we want to use.
   4. In same manner we can share CSS in multiple components.

1. **Lifecycle methods in LWC ?** 
   1. constructor()
   2. ConnectedCallback()
   3. RenderedCallback
   4. Render()
   5. DisconnectedCallback()
   6. ErrorCallback(error, stack)

1. **LWC component lifecycle flow ?**

Update the public 
property value 
constructor 
called on parent 
blic property 
nding to be 
updated? 
Parent inserted 
into DOM 
connectedCallhac 
called on paren 
Parent rendered 
renderedCaIIback 
called on parent 
constructor 
called on child 
public property 
pending to be 
updated? 
Child inserted 
into DOM 
connectedCallback 
called on Child 
Child rendered 
renderedCaIIback 
called on child 
Yes 
Update the public 
property value 

1. **What's the use of Constructors?**
2. **What is Lightning Data Services?**

1. **What is bubbling what is capturing ?**

Event bubbling, as its name suggests, is about bubbling up the event through shadow DOM. We can think of it as a water bubble. If a bubble gets created in water, it flows in upward direction. Same thing happens with events.

But in LWC, event bubbling is restricted by default using ***bubbles*** and ***composed*** properties.

These are false by default

{bubbles: false, composed: false}

<c-app> 
#shadow root 
#shadow ro 
<div class='wrappper'> 
<c-child> 
#shadow root 
Click me 

{ bubbles: true, composed: false }

<c-app> 
#shadow root 
#shadow ro 
<div class='wrappper'> 
<c-child> 
#shadow root 
Click me 

{ bubbles : false, composed : true }

#shadow roc t 
cc-parent> 
#shadow ro 
<div class='wrappper'> 
<c-child> 
#shadow root 
Click me 

{ bubbles : true, composed : true }

*shadow roc' 
cc-parent> 
#shadow ro 
<div class='wrappper'> 
<c-child> 
#shadow root 
Click me 

<https://developer.salesforce.com/blogs/2021/08/how-events-bubble-in-lightning-web-components>

1. **How to call child component methods with parent component ?**
   1. By exposing them using @api annotation and using this.template.querySelector(c-child-cmp).method().

1. **How child to grandparent communication works?**
   1. by setting ***bubbles*** and ***composed*** properties to true
   2. Using LMS
   3. Using pubsub model: <https://v2forcecrm.medium.com/publish-subscribe-model-in-lightning-web-component-lwc-part-2-salesforce-blog-e48e909edfa2>

1. **What are promises?**
   1. <https://niksdeveloper.com/salesforce/promise-in-lwc-and-javascript/>
   2. Promises in javascript/LWC lets asynchronous methods return values like synchronous methods. Instead of immediately returning a final value. It ensures at least response will be returned from the async function, whether it is error or successful operation value
   3. It has one of these states: pending, fulfilled, rejected
   4. It has then, catch and finally functions to handle the promises.
      1. .then executes when the function returns a successful value
      2. .catch executes when the async functions gets any error or exception
      3. .finally will executes regardless of successful operation or error

1. **can callbacks be async?**
   1. Callbacks can be aysnc if they perform another asynchronous operation. - <https://developer.mozilla.org/en-US/docs/Learn/JavaScript/Asynchronous/Introducing>

1. **What is 2 way binding ? What is binding in LWC ?**
   1. 2 way binding means the data can be passed from view to backend and from backend to view. In LWC, This can be done by making an event in that property and handling that in javascript file.

1. **When does wire method executes ?**
   1. The function decorated with @wire attribute is invoked whenever a value is available, which can be before or after the component is connected or rendered.

1. **can we call wire method from button click ?**
   1. We cannot. That's an imperative model and it's not how wire adaptors work. Wire adaptors are reactive model and system provisions new data when parameters change.
   2. We can do it in indirect way by updating the variable that holds the data from wire method

1. **Which will execute first? Either wire method or connectedCallback()?**
   1. The Wired service is called after construction of component before any other lifecycle hooks. The property is assigned a default value which is an object with data and error properties of undefined in it.
   2. <https://jdspaceit.wordpress.com/2019/02/27/wired-property-from-an-apex-method/>

1. **What are different ways to call methods of apex class ?**
   1. using wire adapter
   2. using imperative approach
   3. using async and await approach
   4. <https://medium.com/@sendtosachin27/work-with-salesforce-data-work-with-apex-method-in-lwc-c06364dda90c>

1. **What is difference between Imperative apex calls and Wire method?**
   1. Wire enables real time retrieval of data, whereas Imperative apex methods provides data when explicitly called
   2. Wire method refreshes the data when data changes in server side, whereas Imperative apex never automatically updates the data
   3. Wire methods don't require error handling, Imperative method does
   4. Typical use case of wire method includes showing real time data. Typical use case for Imperative method includes fetching data on demand

1. **How to use LWC component inside Aura and VF?**
   1. To call the LWC from VF page, we use <lightning:container src="c/my-component" attributes="{ message: 'Hello World' }" />
   2. To call LWC from Aura, we use <c:LWCComponentName></c:LWCComponentName>

1. **I want to get all the tourist\_name from this:** [**http://restapi.adequateshop.com/api/Tourist?page=2%C2%A0and...A**](http://restapi.adequateshop.com/api/Tourist?page=2%C2%A0and...A) **and create an array of those**
   1. **One way:** let a = jsonData; for(let e of a.data){ console.log(e.tourist\_name) }

1. **I want Ids whose tourist name is 'mikes' from this:** [**http://restapi.adequateshop.com/api/Tourist?page=2%C2%A0and...A**](http://restapi.adequateshop.com/api/Tourist?page=2%C2%A0and...A)

let abc = a.data; let newArr = abc.filter(item => item.tourist\_name === 'mikes'); let updatedArr = []; for(let e of newArr){updatedArr.push(e.id)}

1. **What does map() function do in javascript?**
   1. Map function iterates over an array and returns the new array after executing a callback function

1. **What is difference between slice and splice method?**
   1. Slice takes out subarray from the original array, whereas splice affects the original array by removing, adding or replacing the elements
   2. If you want to alter the content of the array, splice is the best way to do. But, if you want to obtain a subarray, slice should be your choice.

1. **How to open a new record in a subtab in console app?**
   1. To open a subtab in a console app, we use Workspace API methods such as openSubtab() by importing them from 'lightning/platformWorkspaceApi'
   2. <https://developer.salesforce.com/docs/atlas.en-us.api_console.meta/api_console/sforce_api_console_methods_lightning_workspaceAPI.htm>

1. **What is shadow DOM? Any Example?**
   1. Shadow DOM encapsulates the DOM of internal LWC component
   2. It prevents the elements, styles, and javascript of child component from manipulation by outside DOM
   3. It provides a shadow boundary to separate it from global DOM
   4. The best example for shadow DOM is parent-child relationship.
   5. Another example would be bubbling and composition of events