From Shivendu Agarwal

Salesforce Lightning Web Component Course

Content 🗅

Upon completing this course, you should be able to:

- Create your own LWC components from scratch
- Setup Visual Studio Code for LWC Development
- Setup your own Local Development environment
- Understand how LWC is better than Aura
- ●Implement topics like Conditional Rendering, Loops
- Pass properties from HTML to JS and vice versa
- Implement custom logic in Lightning Web Component
- Communicate and pass data between related and unrelated components
- Make use of lifecycle hooks in LWC
- Make changes in DOM at runtime
- Understand shadow DOM
- Understand Navigation between components using NavigationMixin
- service Make use of different decorators in LWC
- Make reference to external code in LWC
- Retrive data from Salesforce database using LWC
- Integrate Salesforce with third party application from LWC
- Make REST Callouts from the components
- Write Test classes for the LWC Components
- Deploy the Component to higher envrionments

SALESFORCE LWC

Introduction to LWC:

Topics:

- Introduction
- Why LWC
- Advantages of Using LWC over Aura
- Difference between LWC and Aura

Setup Development Environment

Topics:

- Set up development
- environment Installing VS code
- Installing Salesforce CLI
- Setup your Org

Assignments *A*

LWC Quick Start Guide:

https://trailhead.salesforce.com/en/content/learn/projects/quick-start-lightning-web-components?trail_id=build-lightning-web-components

Basics Of LWC

Topics:

- •LWC Fundamentals
- Creating a basic Component
- Understanding the different files in the

Component OHTML template

Assignments/Hands-On

Build LWC Components:

https://trailhead.salesforce.com/en/content/learn/modules/lightning-web-components-basics?trail_id=build-lightning-web-components

Understanding JavaScript:

Topics:

- ●Introduction JavaScript
- Different Variable types
- Basics of JS
- Spread Operators
- Callback methods
- Arrow functions
- Javascript Properties
- Objects in JS
- DOM and Modifying the DOM using JS





Javascript 101:

https://trailhead.salesforce.com/content/learn/modules/javascript-essentials-salesforce-developers?trailmix_creator_id=tsalb&trailmix_slug=lwc-and-js-101

Understanding LWC's JavaScript:

Topics:

- Deploying the component and check the output
- Creating scratch org, enable Devhub
- Conditional Rendering
- Loops or iteration
- Private properties
- Public properties
- Passing data from HTML to JS
- Two way Data Binding
- ●LWC Local Development Server
- Decorators in LWC @wire, @api, @track
- Project: Arithmetic Calculator (which displays past operations
- too!) Getters and Setters
- Debugging the component
- Track and API Decorator Example
- Project 2 usage of Objects, API, Track, CSS, LDS

From Sun Space Cloud Technologies..

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• Create a project in LWC:

https://trailhead.salesforce.com/content/learn/projects/lwc-build-flexible-apps?trailmix_creator_id=itzmanishy7&trailmix_slug=lwc-and-js_

- ●Implement more extra functionalities in the Project 2 and Project 1
- Debug LWC Components:

https://trailhead.salesforce.com/en/content/learn/modules/lwc-troubleshooting?trail_id=b uild-lightning-web-components&trailmix_creator_id=sakthivel&trailmix_slug=lightning-web-component-lwc

Interview Practice

- Differentiate between different different decorators in LWC
- Ouestions on Conditional rendering and looping
- Questions on Properties Public and Private

Events and Hooks

Topcis:

- Lifecycle hooks
- Communicate with Events
- Create and dispatch events
- Handle events
- Configure event propagation
- Communicate between components
- Events Best Practices

Assignments/Hands-On 🧖

Events in LWC:

https://trailhead.salesforce.com/en/content/learn/modules/lightning-web-components-basics/handle-events-in-lightning-web-components

•Working with Events:

https://developer.salesforce.com/docs/component-library/documentation/en/lwc/lwc.even

ts

Event Propagation:

https://developer.salesforce.com/docs/component-library/documentation/en/lwc/events_propagation

Interview Practice

- Questions on Lifecycle Hooks
- Problems on Event Propagation
- Bubbling of events in LWC
- ●When to use Lightning Data service and Pub-Sub
- Additional Questions which can be asked in Developer Interviews Hands-On

Access Salesforce Data

Topics:

- Access Salesforce Data
- Data Guidelines

SALESFORCE LWC

- Lightning Data Service
- Call Apex method using Wire



Call Apex Method Imperatively

Security with Lightning Locker Service

Assignments/Hands-On 🍝



Wire Adapter:

https://developer.salesforce.com/docs/component-library/documentation/en/lwc/lwc.data_wire_s ervice about

Handle Errors:

https://developer.salesforce.com/docs/component-library/documentation/en/lwc/lwc.data_error

Call Apex Methods:

https://developer.salesforce.com/docs/component-library/documentation/en/lwc/lwc.apex

Imperative Calling:

https://developer.salesforce.com/docs/component-library/documentation/en/lwc/lwc.apex_call_i

mperative

LWC Data Module:

https://trailhead.salesforce.com/en/content/learn/modules/lightning-web-components-and-salesf

orce-data

Import Objects and Fields:

https://developer.salesforce.com/docs/component-library/documentation/en/lwc/lwc.apex_sche

ma

Call APIs from Apex:

https://developer.salesforce.com/docs/component-library/documentation/en/lwc/lwc.data_api_ca

lls_apex

★Superbadge★ - LWC Specialist

https://trailhead.salesforce.com/en/content/learn/superbadges/superbadge_lwc_specialist

Interview Practice

- When to use call Apex methods imperatively vs using Wire
- Caching in Apex
- Security Questions
- Guidelines and considerations when working with Data



Topics:

- Aura Coexistence
- Migrate Aura components

Test Clases and Deployment:

Topics:

- Test Classes and Cases
- Deploy Code to Production

Assignments/Hands-On 🍝



Test LWC:

https://trailhead.salesforce.com/en/content/learn/modules/test-lightning-web-components

- Write Test Cases for the Components built in the course
- Deploy the component to Different Orgs using Workbench or any other migration tools.

Assignments/Projects & Guidance on the way-ahead