



WIR
OHANA **SIND**

BUILD BETTER
TOGETHER



THANK YOU, SPONSORS



5 Dinge über Lightning Web Components

...von denen ich als Solution Architect wünschen würde, dass Entwickler sie wüssten



WIR
OHANA **SIND**



*“Architekt von Beruf,
Trailblazer aus Neugierde,
aber im Herzen immer Entwickler.”*

Sebastiano Schwarz

Salesforce Solution Architect

Capgemini



“LWCs sind aufwendig,
weil ich immer auch
Apex brauche.”

Es geht oft
auch mal
ohne Apex!



Beispiel - Verwendung der UI Record API

Mit Apex 

```
JS accountDetails.js U X
force-app > main > default > lwc > accountDetails > JS accountDetails.js > ...
1 import getAccountData from '@salesforce/apex/AccountDetailsController.getAccountData';
2 import { LightningElement, api } from 'lwc';
3
4 export default class AccountDetails extends LightningElement {
5   @api recordId;
6   account;
7
8   connectedCallback() {
9     getAccountData({ recordId: this.recordId }).then((result) => {
10       this.account = result;
11     });
12   }
13 }
14
```



```
AccountDetailsController.cls U X
force-app > main > default > classes > AccountDetailsController.cls > ...
1 public with sharing class AccountDetailsController {
2   @AuraEnabled
3   public static Account getAccountData(Id recordId) {
4     return [SELECT Id, Name FROM Account WHERE Id = :recordId];
5   }
6 }
7
```

Ohne Apex 

```
JS accountDetails.js U X
force-app > main > default > lwc > accountDetails > JS accountDetails.js > ...
1 import ACCOUNT_NAME_FIELD from '@salesforce/schema/Account.Name';
2 import { getRecord } from 'lightning/uiRecordApi';
3 import { LightningElement, api, wire } from 'lwc';
4
5 export default class AccountDetails extends LightningElement {
6   @api recordId;
7   @wire(getRecord, { recordId: '$recordId', fields: [ACCOUNT_NAME_FIELD] })
8   account;
9 }
10
```

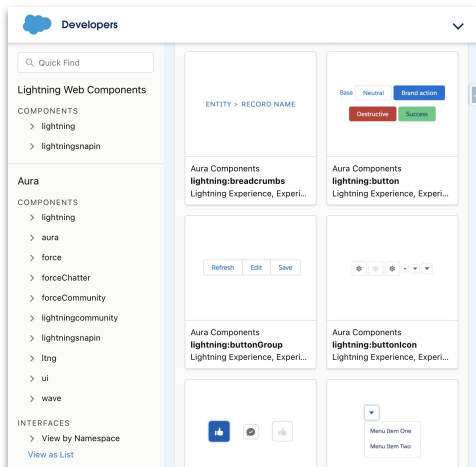


“Styling der
UI ist immer
kompliziert.”

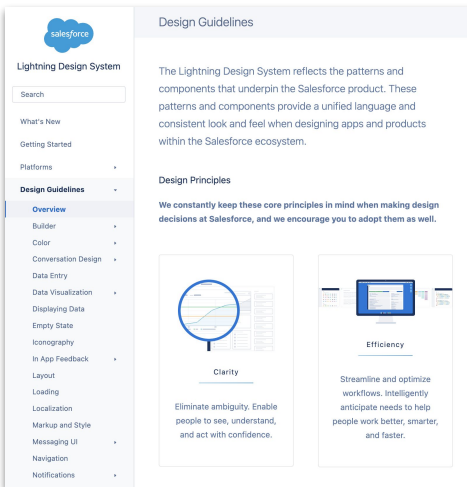


3 Schritte für die richtige Lösung

1. LWC Component Library



2. SLDS Blueprints



3. Custom CSS



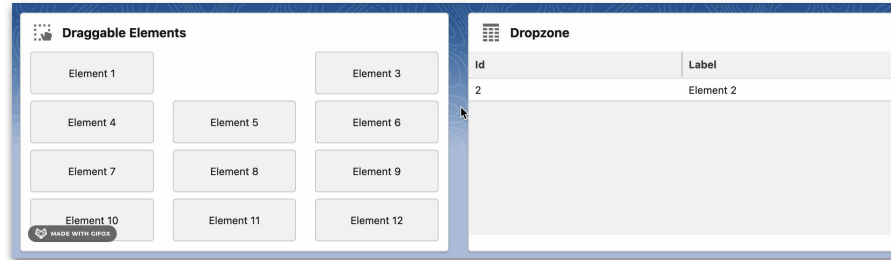
“Ich finde in der LWC
Dokumentation keine
Lösung dafür.”

Es existieren
UI Standards
außerhalb von
Salesforce.

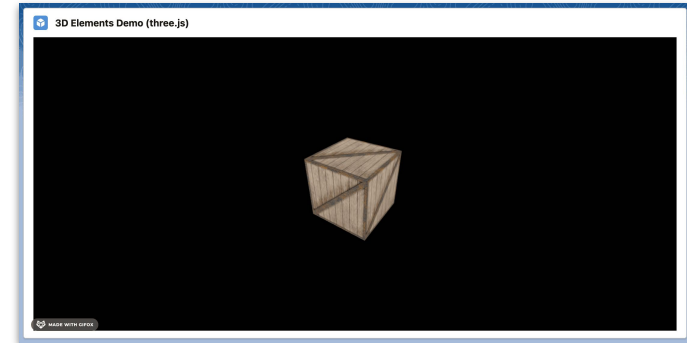


Beispiele - Verwendung von Web APIs

HTML Drag & Drop API



WebGL 3D Animationen



“Es kostet Zeit Code
immer auf eine Org
pushen zu müssen.”

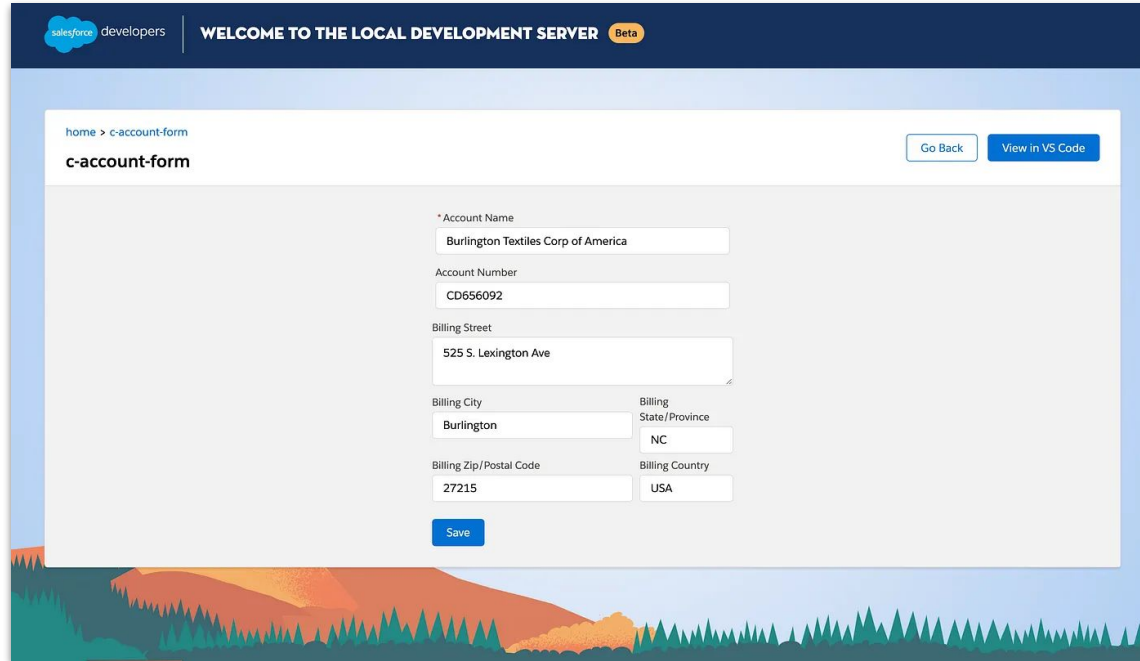
Zeit sparen
und lokal
entwickeln!



4



Beispiel - Account Record Edit Form

A screenshot of a Salesforce Account Record Edit Form. The page has a dark blue header with the Salesforce logo and "WELCOME TO THE LOCAL DEVELOPMENT SERVER Beta". The breadcrumb trail shows "home > c-account-form". The form title is "c-account-form". There are two buttons in the top right: "Go Back" and "View in VS Code". The form fields are: "Account Name" (Burlington Textiles Corp of America), "Account Number" (CD656092), "Billing Street" (525 S. Lexington Ave), "Billing City" (Burlington), "Billing State/Province" (NC), "Billing Zip/Postal Code" (27215), and "Billing Country" (USA). A "Save" button is at the bottom. The background features a stylized landscape with orange and green hills and a blue sky.

home > c-account-form

c-account-form

Go Back View in VS Code

* Account Name
Burlington Textiles Corp of America

Account Number
CD656092

Billing Street
525 S. Lexington Ave

Billing City
Burlington

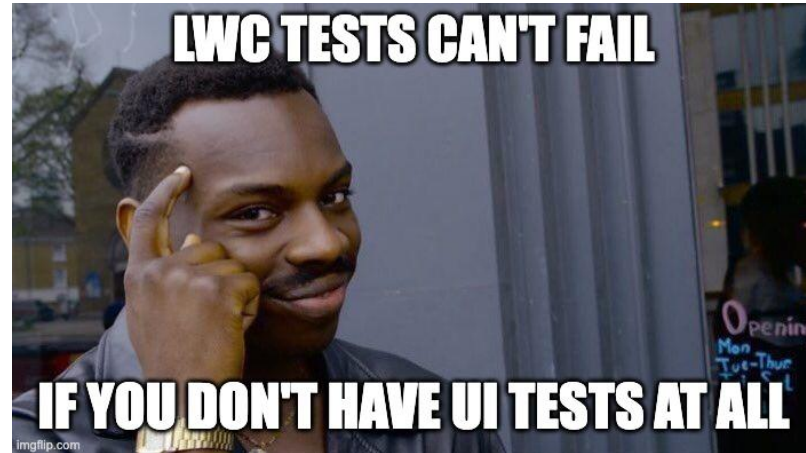
Billing State/Province
NC

Billing Zip/Postal Code
27215

Billing Country
USA

Save

“Warum soll
ich denn Unit
Tests für die UI
schreiben?”



LWC Unit Tests mit Jest

Standardisierte Syntax

Schnelle, lokale Ausführung

Code Coverage Reporting

```
force-app > main > default > lwc > helloWorld > __tests__ > JS helloWorld.test.js > ...
4 describe('c-hello-world', () => {
5   afterEach(() => {
6     while (document.body.firstChild) {
7       document.body.removeChild(document.body.firstChild);
8     }
9   });
10
11   Run Test | Debug Test
12   it('is accessible and displays greeting', async () => {
13     // given
14     const element = createElement('c-hello-world', {
15       is: HelloWorld
16     });
17     element.name = 'World';
18
19     // when
20     document.body.appendChild(element);
21
22     // then
23     const div = element.shadowRoot.querySelector('div');
24     expect(div.textContent).toBe('Hello, World!');
25     await expect(element).toBeAccessible();
26   });
27 });
```

File	100	100	100	100	
customDatatable	100	100	100	100	
customDatatable.js	100	100	100	100	
customDatatableExtension	100	100	100	100	
customDatatableExtension.js	100	100	100	100	
customDatatableLookup	100	100	100	100	
customDatatableLookup.js	100	100	100	100	
customMapView	100	100	100	100	
customMapView.js	100	100	100	100	
customSlider	71.42	70	60	70.73	86, 113-122, 134, 146-147
customSlider.js	71.42	70	60	70.73	
dragAndDrop	100	100	100	100	
dragAndDrop.js	100	100	100	100	
helloWorld	100	100	100	100	
helloWorld.js	100	100	100	100	
iFrame	100	100	100	100	
iFrame.js	100	100	100	100	
localDevelopmentWrapper	100	100	100	100	
localDevelopmentWrapper.js	100	100	100	100	
multiSelectCombobox	93.05	90.9	85.71	92.64	106, 109, 121-122, 133
multiSelectCombobox.js	93.05	90.9	85.71	92.64	
multiSelectComboboxItem	100	100	100	100	
multiSelectComboboxItem.js	100	100	100	100	
openRecordPageFlowAction	100	100	100	100	
openRecordPageFlowAction.js	100	100	100	100	
render3DElementsThreeJS	46.15	100	83.33	44	37-56
render3DElementsThreeJS.js	46.15	100	83.33	44	
takeUserProfilePicture	74.35	85.71	75	74.28	28-38, 73-76
takeUserProfilePicture.js	74.35	85.71	75	74.28	
visualForceToPdf	100	100	100	100	
visualForceToPdf.js	100	100	100	100	

Test Suites: 21 passed, 21 total
 Tests: 46 passed, 46 total
 Snapshots: 0 total
 Time: 3.602 s
 Ran all test suites.

awesome-lwc-collection View as List 24 files

Coverage 92.6% See history New code: since previous version

	Coverage	Uncovered Lines	Uncovered Conditions
...main/default/lwc/render3DElementsThreeJS/render3DElementsThreeJS.js	48.1%	14	0
force-app/main/default/lwc/customSlider/customSlider.js	70.6%	12	3
force-app/main/default/lwc/takeUserProfilePicture/takeUserProfilePicture.js	76.2%	9	1
force-app/main/default/lwc/base64ToPdf/base64ToPdf.js	87.5%	1	0
force-app/main/default/classes/ContentDocumentController.cls	90.5%	2	-
force-app/main/default/lwc/multiSelectCombobox/multiSelectCombobox.js	92.2%	5	2
force-app/main/default/classes/CustomDatatableUtil.cls	96.6%	3	-
force-app/main/default/lwc/contentDocumentIcon/contentDocumentIcon.js	100%	0	0
...p/main/default/lwc/contentDocumentPreview/contentDocumentPreview.js	100%	0	0
...e-app/main/default/lwc/contentDocumentTable/contentDocumentTable.js	100%	0	0

Denkt an die UX und lernt JavaScript Basics!



Q&A



THANK YOU, SPONSORS

