

Shopware Boost Day 14.09.2023

## Composable frontends in action

#### Moin!

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- Shopware since 2015 (4.x)
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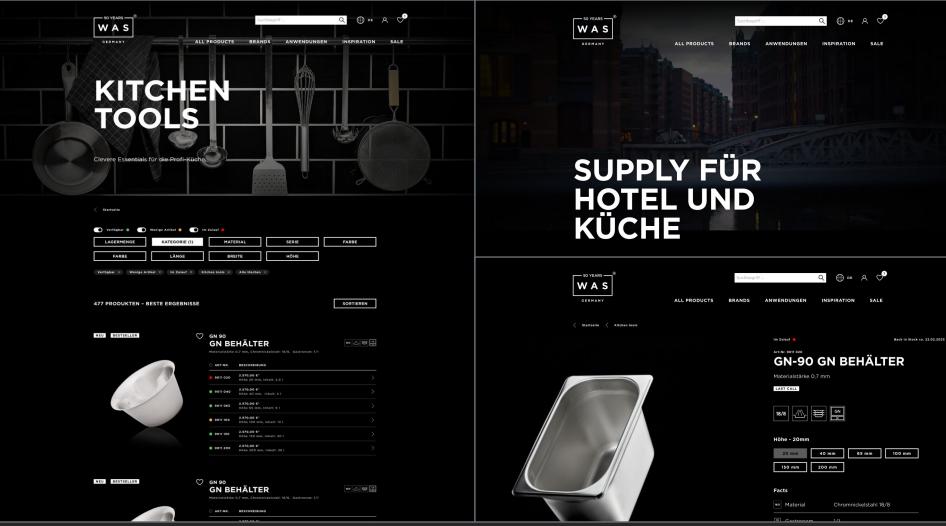
#### Agenda

- About the project
- Pain points in the past
- Project preparation / design process
- Development process
- DevOps / Hosting
- Learnings
- Conclusion and next steps

#### About the project

- B2B selfservice portal
- UX/UI kickoff september 2022 (paused march to august 2023)
- The project goal for phase 1 was to display recurring questions about prices, availability and order status online to relieve the customer support. Next phase with order feature
- Individual frontend and strong focus on design details
- Animated header and teaser images and other special features
- Payment not needed for first implementation

#### Composable frontends in action: About the project



**+site**geist

#### Pain points in the past

- Adjusting stylesheets in the storefront template becomes increasingly difficult with the amount of customization
- We often end up fixing one thing and creating 5 new errors
- Frustrated frontend developers fighting against the storefront stylesheet
- Dissatisfied UX/UI designers because it was often not implemented as desired
- Unhappy customers because even small adjustments become very expensive over time

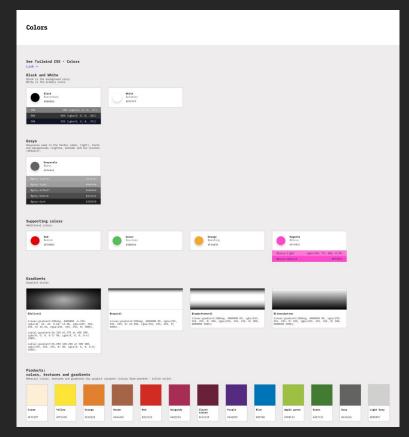
#### Pain points in the past

- Our Neos and TYPO3 teams are working component-based in the frontend already for many years
- Frontend developers preferred to work in the TYPO3 and Neos teams because they could work with more modern technologies

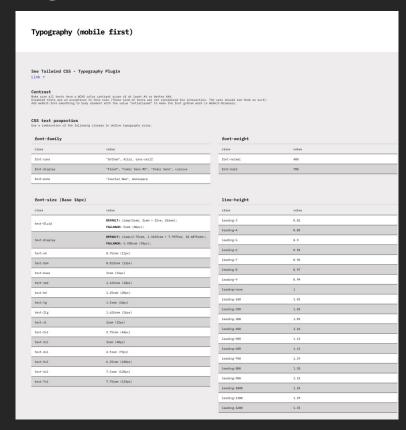
- Clear definition of design tokens like grid, colors, fonts, sizes ... at the beginning of the project
- UX/UI team worked with tailwind definitions in figma



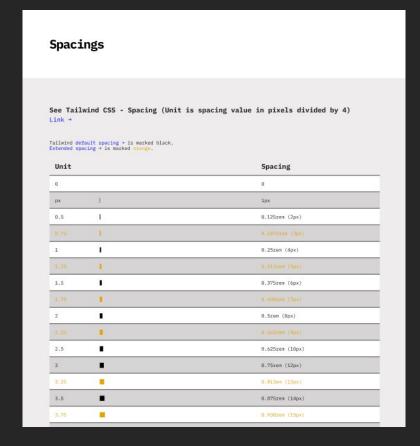
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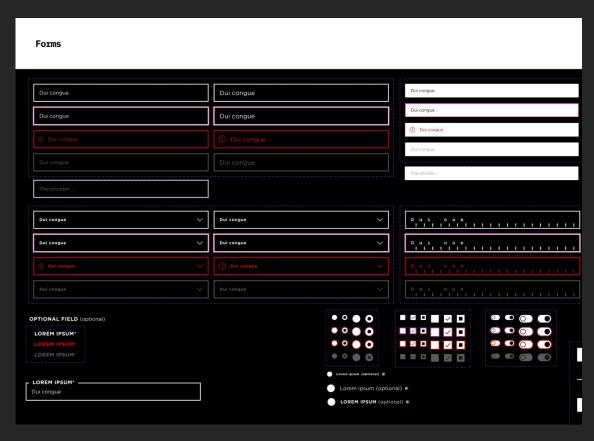
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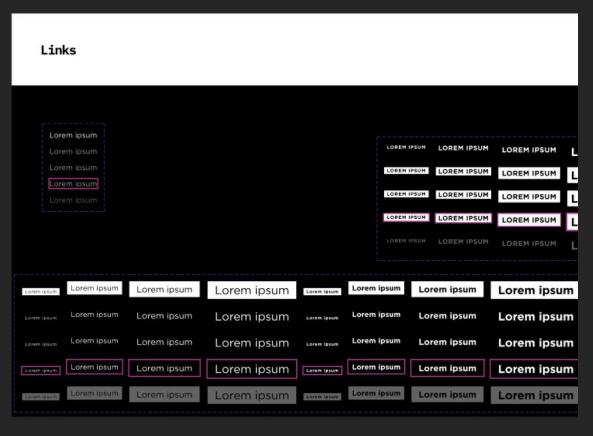
- Clear definition of design tokens like grid, colors, fonts, sizes ... at the beginning of the project
- UX/UI team worked with tailwind definitions in figma
- additional classes different to the tailwind default are highlighted



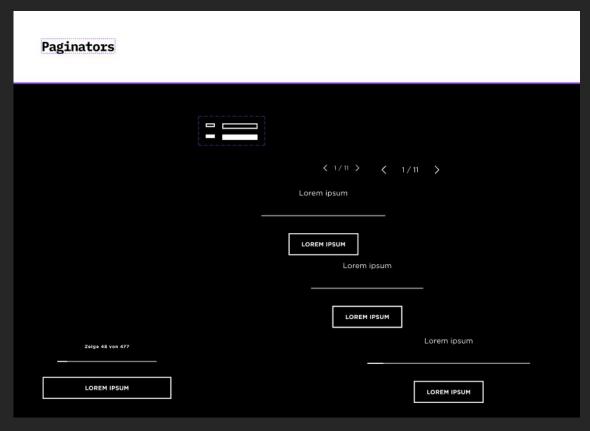
- Components first!
- Started with small components like button, links, inputs ...



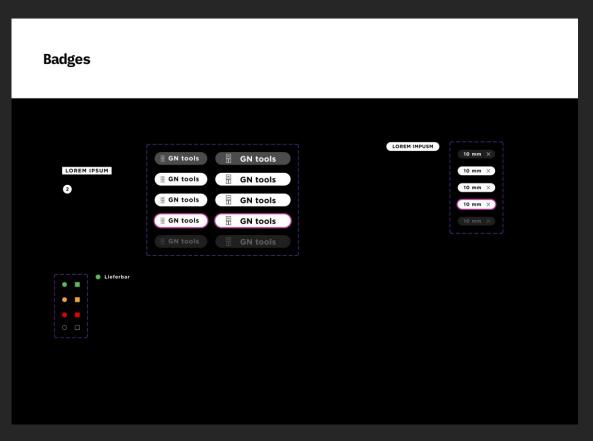
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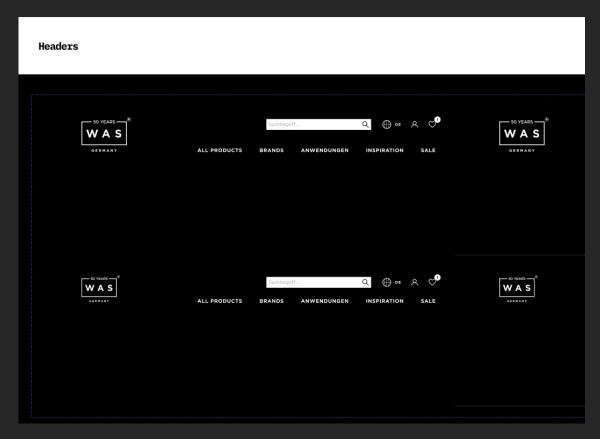
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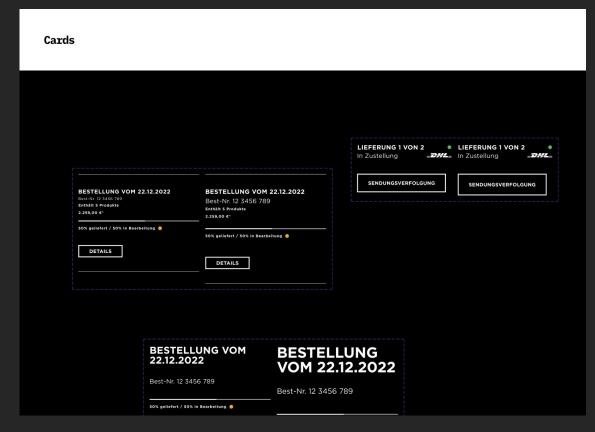
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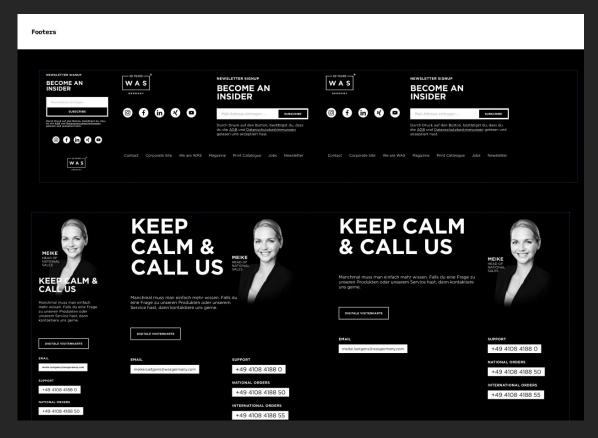
- Components first!
- Grouped smaller components together to bigger components like header, footer, cards ...



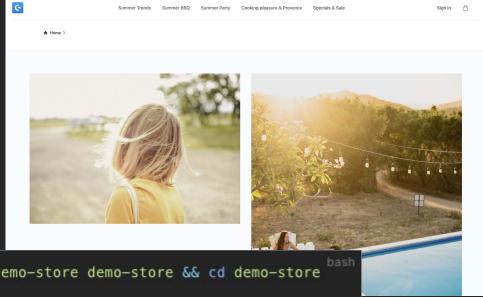
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 Project setup with shopware composable frontends demostore template



npx tiged shopware/frontends/templates/vue-demo-store demo-store && cd demo-store npm i && npm run dev

- Tailwind configuration with defined design tokens (tailwind.config.ts)
- UX/UI and frontend developer worked close together
- We took extra time to carefully define the design tokens

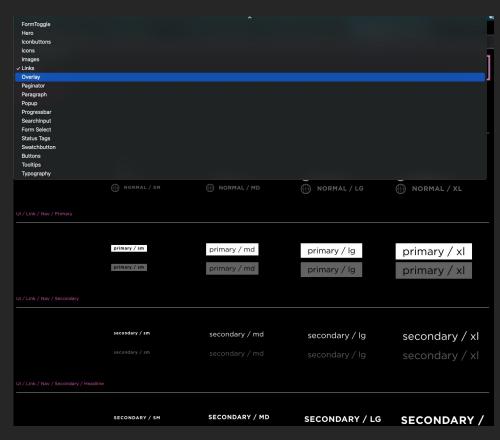
```
backgroundImage: {
    fullveil:
        'linear-gradient(180deg, #000000 -2.25%, rgba(44, 44, 44, 0.66) 13.5%, rgba(255, 255, 255, 0) 65.1%
    topyeil: 'linear-gradient(180deg, #000000 0%, rgba(255, 255, 255, 0) 24.38%, rgba(255, 255, 255, 0) 1
    topbettomveil:
        'linear-gradient(180deg, #000000 0%, rgba(255, 255, 255, 0) 35%, rgba(255, 255, 255, 0) 50%, #00000
},

colors: {
    primary: '#fff',
    secondary: '#000',
    grey: {
        DEFAULT: '#636363',
        lighter: '#4707a7a',
         medium: '#404646c',
        dark: '#202020',
        },
},
```

```
theme: {
 screens: {
 fontFamily: {
  sans: ['Gotham', 'Arial', 'sans-serif'],
  display: ['Flood', '"Comic Sans MS"', '"Comic Sans"',
  mono: ['"Courier New"', 'monospace'],
 fontWeight: {
 fontSize: {
  fluid: '5rem', // 80px
   '3xl': '3rem', // 48px
```

```
lineHeight: {
 3: '0.82',
 4: '0.85',
 6: '0.94',
 7: '0.96',
 8: '0.97',
  100: '1.03',
  200: '1.05',
  300: '1.09',
  600: '1.15',
 1000: '1.24',
 1100: '1.29',
letterSpacing: {
 tighter: '-0.06em',
  wide: '0.001em'.
  '2wide': '0.005em',
  '3wide': '0.01em',
  '4wide': '0.015em',
  '5wide': '0.02em',
  '6wide': '0.025em',
  '7wide': '0.03em',
  '8wide': '0.04em',
  '9wide': '0.05em',
  '10wide': '0.06em',
  '11wide': '0.08em',
  widest: '1em',
```

- Setup simple component styleguide as vue.js page
- Storybook was not vue.js 3 ready in the beginning



Component: Dropdown

```
BOTTOM / NORMAL

CONTENT
```

```
triggers?: Trigger[];
                                                                       arrow?: boolean;
                                                                       content?: string | object;
                                                                       shown?: boolean;
                                                                        autoHide?: boolean;
                                                                       noAutoFocus?: boolean;
 <div class="inline-block">
                                                                       html?: boolean;
   <WasDropdown
                                                                       popperclass?: string;
     ref="wasDropdown"
                                                                       hideTriggers?: (triggers: string[]) => string[];
     :placement="position"
     :shown="shown"
     :auto-hide="autoHide"
     :triggers="triggers"
                                                                     export interface Emits {
     :no-auto-focus="noAutoFocus"
                                                                       (e: 'dropdown:show'): void;
     :hide-triggers="hideTriggers"
                                                                       (e: 'dropdown:hide'): void;
     :popper-class="[type === 'error' ? 'v-popper--error' : '', !arrow ?
     @show="$emit('dropdown:show')'
                                                                     withDefaults(defineProps<Props>(), defaults: {
     @hide="$emit('dropdown:hide')"
                                                                       type: 'normal',
     <slot />
                                                                       position: 'bottom',
     <template #popper>
                                                                       arrow: true,
       <div class="px-5 py-2.5">
                                                                       triggers: () => ['click'],
        <slot name="content">
          {{ content }}
                                                                       shown: false,
                                                                       autoHide: true,
     </template>
                                                                       html: false,
   </WasDropdown>
                                                                       noAutoFocus: false,
</template>
                                                                       popperclass: '',
                                                                       hideTriggers: (triggers: string[]) => triggers,
                                                                     defineEmits<Emits>();
                                                                     </script>
```

<script setup lang="ts">

export interface Props {
 type?: 'normal' | 'error';

export type Trigger = 'click' | 'hover';

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#### <script lang="ts"> export default { inheritAttrs: false, **Development process** </script> <script setup lang="ts"> import type { Ref } from 'vue'; export interface Props { Component: Input monospace?: boolean; inverted?: boolean; <div class="relative w-full"> invalid?: boolean; <input label?: string; type="text" ₹modelValue?: string; v-bind="attrs" :required="required" required?: boolean; :class="inputclassList" pureLabel?: boolean: :value="modelValue" @input="emit( event: 'update:modelValue', (\$event.target as HTMLInp const props = withDefaults(defineProps<Props>(), COMPONENT <label v-if="props.label" monospace: false, Form Input :for="attrs['id'] as string" inverted: false, :class="labelClasslist" invalid: false, {{ props.label }}<span v-if="required">\*</span> required: false, v-else-if="!pureLabel" class="ml-[7px] inline-block font-normal normal-case" >(optional)</span (i) Inverted error const background = 'input-segmentation'; </label> const backgroundLarge = 'input-segmentation-larg <div INPUT WITH LABEL\* (optional) —— ─ INPUT WITH LABEL DISABLED\* const monospaceBackground = computed(() => defin v-if="showIcon" const monospaceBackgroundLarge = computed(() => const classes = { **INPUT WITH LABEL ERROR\*\*** input: { base: `w-full px-5 lg:py-4 border-3 border-s

+sitegeist Real Values.

focus:outline-[3px] focus:outline focus:ou

ALTERNATIVE / SM

ALTERNATIVE / SM

ALTERNATIVE / LG

ALTERNATIVE / LG

Component: Button

SECONDARY / SM

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</p>

```
<template>
              :is="tagName"
              class="relative focus:outline focus:outline-focus-ligh
});
              :class="`${classList[type][size]['button']} ${classLis
                :name="icon"
                class="inline-block"
                :class="`${classList[type][size]['icon']} ${classLis
BUY / SM
              <div
                v-if="badge && type === 'square'"
BUY / SM
                class="absolute -right-[11px] -top-2.5 flex h-6 w-6
                {{ badge }}
              </div>
            </component>
          </template>
BUY / LG
```

```
<script setup lang="ts">
import { useAttrs } from 'vue';
export interface Props {
  icon: string;
  size?: 'sm' | 'lq';
  badge?: string;
withDefaults(defineProps<Props>(), defaults: {
  size: 'lg',
const classList = {
    default: {
      button: 'leading-none disabled:text-grey'.
    sm: { button: 'p-0.5', icon: 'w-6 h-6' },
    lg: { button: 'p-1', icon: 'w-[30px] h-[30px
  rounded: {
    default: {
      button:
        'text-secondary bg-primary border-3 roun
   sm: { button: '', icon: 'w-10 h-10' },
   lg: { button: 'p-px', icon: 'w-[52px] h-[52p
  square: {
    default: {
```

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PRIMARY / LG

COMPONENT

PRIMARY / SM

PRIMARY / SM

PRIMARY / SM (3)

PRIMARY / SM

PRIMARY / SM

PRIMARY / SM (3)

PRIMARY / LG

PRIMARY / SM

PRIMARY / SM

Real Values.

- We were able to develop components with several developers at the same time, because we were independent of each other
- it was possible to scale the team and speed up
- The design tokens were the basis for everyone

 In the next step, we integrated the individual small components into the demo store template

```
V LayoutHeader.vue ×
               <div class="pr-10 lg:order-3">
                 <IconButton
                   type="square"
                   size="sm"
                   icon="symbols:search"
                   class="h-[38px] lg:ml-6 lg:hidden"
                   @click="open = 'search'"
                   :visible="open === 'search'"
                   position="middle"
                   :show-logo="false"
                   title="Where service begins"
                   backdrop
                   @close="open = null"
                   <HeaderOffcanvasSearch @navigate="open = null" />
                 </Overlay>
                 <div class="my-[6.5px] hidden h-[36px] lg:ml-6 lg:block">
                   <SearchInput
                     ref="searchInput"
                     placeholder="Suchbegriff ..."
                     name="search"
                     autocomplete="off"
                     class="border-2"
                     @click="open = 'search'"
                 </div>
               </div>
               <div class="hidden lg:order-4 lg:block">
                   type="normal"
```



**ALL PRODUCTS** 

Suchbegriff ...

BRANDS ANWENDUNGEN

# SUPPLY FÜR HOTEL UND KÜCHE

Noch kein Kundenkonto?
Hier kannst du dich registrieren.

Meine Übersicht

Bestellungen

Meine Daten

Lieferadressen

Zahlungsarten

⊕ DE

 In the next step, we integrated the individual small components into the demo store template

```
AccountLoginForm.vue ×
           <form @submit.prevent="invokeLogin">
             <input
               v-model="formData.remember"
               type="hidden"
               name="remember"
               data-testid="login-remember-input"
             />
             <div>
               <div class="mb-12">
                 <FormInput
                   id="email-address"
                   v-model="formData.username"
                   name="email"
                   type="email"
                   label="E-Mail"
                   autocomplete="email"
                   required
                   placeholder="Email address"
                   data-testid="login-email-input"
               </div>
               <div class="mb-5">
                 <FormInput
                   id="password"
                   v-model-"formData naceword"
```



Q Suchbegriff ...







**ALL PRODUCTS** 

BRANDS

ANWENDUNGEN

INSPIRATION

SALE



#### **HIER KANNST DU DICH IN DEINEM KUNDENKONTO EINLOGGEN**

Du hast noch kein Konto? Hier kannst du dich registrieren

E-MAIL\* ---Email address

PASSWORT\* -Password

Forgot your password?

#### **DevOps / Hosting**

- Separate projects for frontend and Shopware core
  - 2 Git Repositories
  - 2 Gitlab CI/CD Pipelines
  - 2 vHost
- Timme Hosting
- Supervisor as process manager for node application

#### Learnings

- It is important to take time for the basic configuration of design tokens and the small components
- Close communication between frontend and UX/UI team for the basic configuration
- We need a project blueprint for a component library in figma and for shopware composable frontends to speed up the basics

#### Learnings

- You can use composable frontends quite well, but it's not perfect yet
  - In some places you have to find individual temporary solutions and overwrite some composables
- Many plugins from the store are not yet implemented api first. So, we need more plugins with api support :)
- There are currently many changes to composable frontends
- Happy developers and UX/UI designer

#### Conclusion and next steps

- Based on our experiences from our first shopware composable frontends project:
  - Define component library and project template for figma as blueprint
  - Define project vue.js / tailwind template with shopware composable frontends (maybe based on blank template) as blueprint
- Setup development and testing process with storybook
- Next project starts in the next days with new challenges: b2bsuite and payment

### Download slides





## Thank you!