Feature List - Intershop Progressive Web App 11.0.0

Release 11.0.0 of the Intershop Progressive Web App comes with Google SEO and B2B e-commerce features and - more importantly - it is a major technical upgrade to the underlying software stack, including Angular 14, Node.js 16, and Bootstrap 4.6. This is a very big technical update. Based on the reference application and the fact that all SPA PWAs are very similar, this upgrade will benefit all developers (or rarely better the Intershop Progressive Web Apps) to their specific needs.

These features of the current release are marked **bold**.

Please note that features and options beyond the Platform subscription are explicitly marked as "additional options."

Benefits for Customers	Benefits for Companies	Benefits for Developers
Smooth and responsive customer experience. The application is perfect for mobile devices with limited bandwidth. Some features are available even when the user is offline. Supports the integration of third-party content. With deployed data in the browser, PWA delivers high performance and responsiveness. Customers can use the application on any device.	The digital world is developing rapidly. Website technologies, requirements, and tools grow and change constantly. Intershop's Progressive Web Apps provide a future-proof and efficient framework and tool-based environment for developing and maintaining web applications. The Intershop Progressive Web Apps is built on the latest Angular version. The top priorities are performance, security, and ease of maintenance. Intershop Progressive Web Apps offers a variety of service and data programmatic interfaces with operating costs.	By using variety accepted standards and tools, Intershop Progressive Web Apps enable developers to consolidate and optimize development efforts. Intershop transforms development from a cost factor into a profit factor.

2. Experience Management

2.1. Intershop Progressive Web Application

Toolset	Web Developers can use the Intershop PWA to implement storefront applications. The Intershop Progressive Web Application Commerce Management (CM) Workbench (WCT) IDE uses a Visual Studio Extension.
Templates	Templates contain the HTML that is rendered for the browser and displays the UI.
Services	Services encapsulate business functionality using Typescript. Services are exposed to the UI via Angular Dependency Injection. Services can be used by other services. If a service should be re-usable or provides because services are used throughout the application, it should be implemented as a service. Functionality of complex services is usually split against several Facades.
Components	Components are small and reusably independent bridges between services and templates that prepare data for display in templates and collect input from the user to forward it to services. Components are the only thing that "knows" about the data from the components.
	The components handling the templates should only handle view logic and should not implement too much specific functionality. If the components does more than just handling the templates, it might be better to provide this in a service instead.
	Multiple components and their templates are then composed to pages.
Routes	Routes enable navigation from one view to the next, such as from a product overview page to a product detail page. Routes can pass optional parameters along to the supporting view components and services, such as the product SKU in the URL.
Models	Models are definitions of the data that are handled within the application.
Store	The store is the central representation of all data of the application.
State	The state is stored as the single source of truth for getting information of the current application state. All information should be held in the store. There is only one instance of the state. Components can subscribe to the state to get the information out of the state, selectors have to be used. Changing the state can only be done by dispatching actions.
Selectors	Selectors are used to retrieve information about the current state from the store. The selector's job is grouped in a separate file. They always read the parts from the root of the state tree and navigate to the required information. Selectors return Observables and can be used in components and other selectors.
Actions	Actions are used to state that the current state has changed or triggerd effects. Actions are held in a separated file. The action class contains a type of the action and optional payload. Actions are the only input and output data to the Ngrx Reducer functions. So, after the state asynchronously, effects are used.
Reducers	Reducers alter the state synchronously. They take the previous state and an incoming action to compose a new state. The reducer is then published and all listening components receive the new state. Reducers are the only place to make changes of the state synchronous which are easily testable.
Effects	Effects are receiving actions triggered and implementation tasks like querying REST resources. Often successful or erroneous completion an effect might trigger another action to change the state of the application. Effects are testable.
Schematics	Schematics allow the easy creation of code artifacts that automatically compile to the coding guidelines of the project, saving a lot of time for repetitive tasks and increasing code quality.
Localization	Intershop Progressive Web App uses a mix of Angular's native localization tools and a custom translation management system based on Intershop Commerce Management.
Server-side rendering	With Angular 9+ a static app version is generated that is easily searchable, linkable, and navigable without javascript. It also makes it also possible available since search engines and social media crawlers can see a fully rendered version of the pages. Different crawlers are agnostic, e.g., being unable to search engines are disabled for such crawlers.
Integrated Content Management	Content managed in Intershop Commerce Management can be integrated into the Intershop Progressive Web App. The content model and integration points in the storefront can be customized according to project specific needs.
Deployment Scripts	Templates for Kubernetes Deployments and Helm Charts for Microsoft Azure are supplied with the Intershop PWA.
Theme	Themes allow to adapt the appearance of the shop.
	Style themes are a modifiers to the code. Configurable themes can be modified via variables. Multiple theme styles and/or configuration can be combined.

2.2. Functional Scope

Storefront	The Intershop Progressive Web Apps is an essential component of Intershop's new cloud platform. It provides a modern, responsive, and high performance storefront. It allows to transfer the corporate logo and the corporate color of choice to Intershop's WCT IDE, partners and customers can design and customize the Intershop Storefront easier than ever before. Intershop's Progressive Web Apps is based on the latest version of the Intershop Commerce Management Business Objects Model. Intershop Commerce Management Business Objects Model
Accessibility	The Intershop Progressive Web Apps meets the WCAG 2.1 AA accessibility standards.
Shopping Experience	
Catalog Browsing	Customers can browse categories by different means, like category navigation, breadcrumbs, or category tree.
Product Browsing	Products can be browsed by category and filtered via search filters (supported filter types are attribute values, price ranges, and product type). Product lists can be sorted by ranking, Product lists can be ordered by different pricing criteria(sales price, etc.).
	Projects can choose between standard and HYBRID search.
Search	Standard search has a full set of tools. Customers can search predictively (SKU or search term found in the product name, description, or attributes). Search results are displayed in real-time. Predictive search supports search term suggestions. Search results can be filtered via search filters. Search results can be sorted by ranking, product name, or price. Search results are displayed in multi-select checkboxes. Search supports customer-specific assortments and displays only search results that are satisfied by the assortment rules. HYBRID search (additional options) Hybrid search provides a free text search in any attribute that is present in the search index. The search behavior can be adapted in the project. Advanced suggest search shows matching search terms, products, categories, and suggest search terms based on the entered text.
Product Display & Actions	The following product views can be displayed: - Multiple product images, including product zoom - Product prices - Inventory - Variations - Shipping information - Product labels (New, Top Seller, Sale) - Product ratings - Product attachments - Product bundles - Product variations The following actions can be performed with products: - Add to cart - Add to compare list - Add to quote - Add to wishlist - Add to order template - Add to notes - E-mail a friend - Print product page - Product notifications for stock and price
Product Variations	Products with different variations are displayed in product lists, product detail pages, cart, wishlist, quote details and order history. The selection of the available options is supported by the product variation model. Product variations are displayed as selectable. Advanced variations handling for complex products with a lot of variations can be implemented in the project. Customers can see the price and availability of the selected variation. Site-type number and complex values of variation attributes are supported.
Product Bundles	Product bundles with all related bundled products are displayed in product detail pages and in the shopping cart.
Retail Sets	Retail sets are displayed in product lists and displayed on product detail pages and can be added to the cart all at once or individually.
Personalized Product and Category Data	Category, product, and promotion data are displayed in a personalized way for the anonymous user.
Scaled Prices	Scaled prices are displayed in product lists, product detail pages, product compare and in the cart. Customers can see the price and availability of the selected quantity.
Related Products	Related products of a certain product are displayed on product detail pages. The following types are supported: - Replacement - Accessory - Up selling - Accessory - Follow-up - Different color a/m - Same parts
Promotions	Promotion messages and prices are displayed in product detail, product listing, cart and checkout pages.
Cookies	Intershop Cookies, an integrated digital rules and service solution, is integrated. additional options
Store Locator Functionality	Store Locator Functionality is available.
	Store Locator with Google Maps integration is structurally defined for the B2B Business Model. Make sure to change Maps integration to the default pricing plan for the B2C Business Model.
Maintenance Page	The maintenance page is shown if the PWA server is in maintenance mode (REST request responses with a 503 error).
Checkout	
Shopping Cart	The following show of the shopping cart is displayed: - Items with inventory information, delivery time, additional information as custom fields, and product variation attributes - Subtotals, tax, shipping charges, payment costs, and total of the cart - Applied promotions - Applied loyalty - Additional basket information as custom fields The following actions can be performed in the shopping cart: - Update quantity - Add additional information for basket or basket line items - Delete item - Update cart - Clear cart - Apply promotion code - Add to wishlist - Configure a recurring order - Add products to an order template - Quick order to B2B customer - Free checkout payment
Quick Order	B2B customers can add multiple products to the cart at once by entering product ID and quantity. Product IDs can be entered manually or via a CSV file upload. Performance and robustness tests, work with equal fields for product ID and quantity.
Requisitions	Using the CSV upload, large number of products can be added to cart.
Addresses	B2B customers can create a requisition, which starts an approval process.
Shipping	Invoice and shipping addresses can be selected, added, and modified during checkout. Addresses can be managed in My Account as well.
	Shipping options including shipping costs, delivery time, and descriptions of the options are displayed. Customers can select a shipping method. Customers can add a delivery note/message to merchants.
Payment	Payment options are displayed and can be selected during checkout.
	The following payment methods are currently supported: - Credit card - Direct debit - Online payment methods, e.g., PayPal - Offline payment methods, e.g., invoice, cash on delivery, cash in advance
	Payment details can be saved, and saved payment details can be selected during checkout.
	The free checkout payment functionality is available in the shopping cart.
	Note Online payment methods require payment connector integration with a third-party payment service provider. For more information regarding available payment service provider integrations, see Overview - Payment Connectors.
Review	All details of the order are displayed before order placement: - Invoice address - Shipping address - Shipping method - Payment method - Additional basket information as custom field - Products with inventory information, delivery time, quantity, additional information as custom field, singleprice, and extprice - Subtotal, tax, shipping charges, payment costs, and total of the cart - In case the order is a recurring order, details of recurrence are displayed - In case coupon or cost center approval is required, approval details are displayed
Receipt	The terms and conditions need to be accepted before placing an order. A summary of the order is displayed after placing an order, including: - Invoice address - Shipping address - Shipping method - Payment method - Additional basket information as custom field - Products with inventory information, delivery time, quantity, additional information as custom field, singleprice, and extprice - Subtotal, tax, shipping charges, payment costs, and total of the cart - Applied promotions - In case the order is a recurring order, details of recurrence are displayed - In case coupon or cost center approval is required, approval details are displayed
Contact Us	Customers can send a request to customer service via the Contact Us form, specifying the topic and the order in question. Customers can add additional information such as phone number, e-mail address, etc.
	Data protection related requests (Request Personal Data, Request Personal Data Deletion) are handled via the form as well.
Quick Checkout	Customers can perform a checkout without registering at the store.
VCS Punchout (B2B)	B2B customers can integrate the storefront into their procurement solution via VCS Punchout. The following features are supported: - VCS Punchout Configuration - VCS checkout is up to the storefront as an VCS Punchout user. Entered mobile parts of the storefront, add products to the cart. Transfer the cart back to the called procurement system. Use the same checkout as for all Punchout user. Display product details in the VCS Punchout format - Validate products ordered via the storefront as an VCS Punchout user, automatically create product aliases in the VCS Punchout format for a given product and of quantity - Background search: log in to the storefront as an VCS Punchout user. Track all Intershop Backsearch URLs (Full Keyword Search and Product Lookup) and queries
cXML Punchout (B2B)	B2B customers can integrate the storefront into their procurement solution via cXML Punchout. The following features are supported: - cXML setup wizard configuration - cXML checkout is up to the storefront as a cXML Punchout user. Entered mobile parts of the storefront, add products to the cart. Transfer the cart back to the called
My Account	
Login & Registration	The following screens are supported: - Register as B2C customer (simple registration (currently not supported) - Registration approval - Payment card authentication (PCI-DSS - AUTHCHB) - Forgot password - Customer Approval - Newsletter Subscription
SSO Login	Login via an external identity provider is supported. Additional users can be invited and can create a new account via SSO. - B2C: The implementation is tested with Keycloak, Azure AD, and Auth0. - B2B: The implementation is tested with Auth0.
My Account Dashboard	The My Account Dashboard provides a navigation overview and the following widgets: - Order Widget - Quote Widget - Wish List Widget - Requisition Widget - Approval Widget - Order Template Widget - Cost Center Widget
Purchases	
Order History	Customers can view their order history (order list filtering and order details of all orders. Customer can exclude the current cart from the order history page. B2B customers can view orders from all buyers in their organization and filter by specific buyers.
Recurring Orders	Customers can view their recurring orders and order details of recurring orders. Customers can activate and deactivate a recurring order on the order detail page. B2B customers can view recurring orders from all buyers in their organization.
Wish Lists	Customers can view a list of their wish lists and wish list details of wish lists. Customers can create, edit, and delete wish lists, and add and remove products from wish lists. Customers can move products between wish lists, and add products to the cart from wish lists.
Requisitions	B2B customers can view their requisitions divided into the following views: - Pending - Approved - Rejected
Quoting	Customers can view a list of their quotes and quote details of all quotes.
Order Templates	B2B customers can view a list of their order templates, and details of order templates. Customers can create, edit, and delete order templates, add and remove products from order templates, move products between order templates, and add products to the cart from order templates.
My Approvals	Buyer approvers or cost center managers of B2B organizations can view the requisitions that are supposed to be processed or are already processed divided into the following views: - Pending - Pending to your Approval - Approved Requisitions - Rejected Requisitions Buyer approvers or cost center managers of B2B organizations can approve and reject requisitions.
My Profile	Customers can view and edit the following profile data: - E-mail (changing e-mail currently supported without password check) - Password - Contact details - Newsletter subscription
Profile Settings	Payment details can be saved during checkout and deleted and deleted in the My Account area. Product notifications for availability in stock and for price can be activated in product detail page and viewed, updated, and deleted in the My Account area.
Payment	
Notifications	
My Organization	Administrators of B2B customer organizations can view, edit, and delete company profile data.
Addresses	Addresses can be created, edited, and deleted. Preferred shipping and invoice addresses can be selected.
User Management	Administrators of B2B customer organizations can view, edit, and delete company customer accounts and manage roles and budgets limits of users. **Company account users can be imported by bulk import based on an updated CSV file.**
Cost Center Management	Administrators of B2B customer organizations or cost center managers can view, edit, and delete cost centers and manage budgets of cost centers. Budgets can be assigned to budgets as well as to specific cost centers. **Cost centers can be imported by bulk import based on an updated CSV file.**
Purchase	Administrators of B2B customer organizations can view, edit, add, and delete CC or cXML Punchout users in order to automatically log a user into the storefront when opening a Punchout session.
Content Management	
Pagelets/Slots	The following pages of the storefront can be managed by the integrated Content Management Capabilities: - Static Content Pages - Home Page All of B2B pagelets/slots (for content) is managed via Content Includes or Texts (Includes).
Components	The following CMS components are supported within the storefront: - Carousel - Container - Dialog - Dynamic Image Tower (with configurable tiny loading) - Freestyle HTML - Image - Navigation Category - Navigation Link - Navigation Page - Product List (Manual) - Product List (Category) - Product List (Search) - Product List (WCS) - Product List (SPARQUE Recommendations) - Static Content Page (Component with configurable side panel navigation) - Text - Video
Meta Contents	Meta Contents are supported in the storefront.
Personalized Content	Personalized content can be displayed specifically for different customer segments.
Demo Content	Different pieces within category, family, product, header, navigation, search, and basket can be managed in the integrated Content Management.
Design Preview	The Design Mode (as in B2B) can be used to preview content changes in the PWA, but without any drive editing capabilities.
Design Data Support	The PWA is ready to be rendered in the Design Data.
Localization	
Preferred Language	The user's preferred language can be used as a preset.
Manage Translations	All texts of the PWA can be managed and translated via the Intershop Commerce Management Business Object Model. It is considerably efficient and flexible for the PWA without the need of a deployment.
Analytics	
Tracking Integration	Analytics tools can be integrated via Google Tag Manager. Tracking of page views via Google Analytics and supported.
Search Engine Optimization	
Page Titles and Meta Tags	Page Title and Meta Tags are set in the PWA. For product and category pages the values are provided via REST API and used.
SEO Friendly Keyword URLs	SEO Friendly Keyword URLs are supported for category pages, product list pages and product detail pages, including the full product path.
Information	
Cookie Information	Customers receive information on the use of cookies and can configure their cookie consent.
Configuration	
Multi-Site Support	One storefront installation can be used to connect to several Intershop Commerce Management channels. Mapping rules can be defined for incoming URLs to map to the corresponding channel.
Multi-Tenant Support	One PWA installation can be connected to several Intershop Commerce Management systems, e.g. to test and let custom within different environments.
	The software supplier can create several different theme projects and can be switched via a configuration parameter.
Hybrid Approach	It is possible to run the PWA in a hybrid mode with the Responsive Starter Store. Some parts of the storefront can run in the PWA and others in the Responsive Starter Store. Linking between the two storefront parts is supported as well as handover of users from one storefront to the other. It is possible to configure which features of an experience are available. - Support for two separate applications
Feature Toggles	Storefront features can be activated and deactivated via configuration of feature toggles. The following features can be activated or deactivated: General: - Contact Us - Product Compare - Product Ratings - Product Notifications - Recently Viewed Products - Store Locator - Multi-language Selection - Legacy Encoding B2B Features: - B2B Customer Registration - Requisitions - Messages to Merchant - Quoting - Quick Order - Order Templates - Punchout B2C Features: - Wish Lists - Quick Checkout Third-party integrations: - Google - Google Maps - Tracking (Google Tag Manager)
Customer Engagement Center (CEC)		
Impersonation support	A contact center agent can log in to the PWA as a user without knowing the user's credentials to see what the page looks like for the user.	

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