Feature List - Intershop Progressive Web App 10.0.0

Release 10.0.0 of the Intershop Progressive Web App comes with Google SEO and B2B e-commerce features and - more importantly - it is a major technical release that introduces a new version of the underlying Angular framework, Angular 8, and a new Angular CLI based build system. Based on the reference application and the full set of SDF PWA UI libs, the Intershop Progressive Web Apps provide developers an rarely seen 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 in the case of no HTML pages, the response time of the pages is much shorter. With data traffic in the range of kilobytes instead of megabytes, it is possible and fun to surf through an online shop even on the go.	The digital world is developing rapidly. Website technologies, new end devices, and much more are constantly changing. Intershop Progressive Web Apps provide a future-proof and different character and much better UX. Intershop Progressive Web Apps are based on the Intershop Progressive Web Apps framework which is based on Angular. The top priorities are performance, ease of use, and ease of development. Variety of devices and big programmatic development with operating costs.	By using widely accepted standards and frameworks, Angular, and Webpack, developers can easily customize and extend Intershop Progressive Web Apps. Intershop Progressive Web Apps offer a clear and well-defined API.

2. Experience Management

2.1. Intershop Progressive Web Application

Toolset	Web Developers can use the Intershop PWA to implement storefront applications. Intershop provides Intershop Commerce Management (CM) Webdevs (SDF) UI Libs to 3rd Party Systems.
Templates	Templates consist of the HTML that is rendered for the browser and displays the UI.
Services	Services encapsulate business functionality using Typescript. Services should have a single purpose. Services can be used by components, other services, or other pipes. Services should be as narrow as possible because services are used throughout the application. Services are implemented in Typescript and provide a common, well-defined, general interface.
Components	Components are small and loosely 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 objects in the application that know about the data from the components.
	The components handling the templates should only handle view logic and should not implement too much specific functionality. It this component does more than just handle the view logic for the template, it might be better to provide this to a service instead.
	Multiple components and their templates are then composed to pages.
Routes	Routes enable navigation from one view to the next as user performs application tasks. Routes can pass optional parameters along to the supporting view components and can be configured to load data before activating a route.
Models	Models are definitions of the data that are transferred within the application.
Store	The store is the central representation of all data of the application.
State	The state is seen 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 should not have their own state, but should be aware of the state, selected from the store. 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 pure pipe pattern is suggested. This "Reactive" way ensures that the view reflect the state that is and changes in the required information. Selectors return Observables and can be used by components and other selectors.
Actions	Actions are used to state that the current state has changed or triggerd effects. Actions are meant to suggest a fact. The action class contains a type of the action and optional payload. Actions are used by reducers and effects. Reducers listen to the changed by effect that triggered actions and change the state.
Reducers	Reducers alter the state synchronously. They take the previous state and an incoming action to compose a new state. The reason is their predictabel and performing behavior. Reducers are pure functions, without side effects, and should contain simple operations which are easily testable.
Effects	Effects are running actions in large application tasks like querying REST resources. Effect expected to a reminiscence compositor an effect might trigger another effect. Effects are used to connect to the Intershop REST API.
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 internationalization tools and a custom translation management system.
Server-side rendering	With Angular 8 in place 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 sites can index the pages and show the content in different ways (such as sharing a page, being crawled for search engines) not disabled by end users.
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 Deployment and Helm Charts for Microsoft Azure are supplied with the product.
Theme	Theme allows to adapt the appearance of the shop.
	Style themes are a modifiers to the core. Configurable themes can be modified via variables. Multiple themes (seasic, ancient configs) can be combined.

2.2. Functional Scope

Storefront	The Intershop Progressive Web Apps is an essential component of Intershop's new cloud offering and provides a modern storefront for business to consumer (B2C) and business to business (B2B) customers. The storefront supports all aspects of a typical B2C/B2B MPO, partners and customers can design and customize the Intershop Storefront easier than ever before. Intershop provides a set of UI Libs that can be used to customize the Intershop Progressive Web Apps to the customer's specific requirements.
Accessibility	The Intershop Progressive Web App meets the WCAG 2.1 AA accessibility standards.
Shopping Experience	
Catalog Browsing	Customers can browse catalogues 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, availability, and product type). Product sorting is possible. Product lists can be scrolled. Product sorting, filtering, and paging are supported.
	Projects can choose between standard and infinitive scroll.
Search	Standard search and a full text search.
	Customers can search predictively (SEO or search terms found in the product name, product SKU, product long description, product short description, product attributes). The search supports search term suggestions. Search results can be filtered via search filters. Search results can be sorted by relevance, price, or product name. Search results can be displayed in multiple ways (textual, tiles). Search supports customer specific requirements (such as displaying only search results that are satisfied by the storefront user). SPARQUE search (additional options) Intershop's SPARQUE search provides a very attractive free-to-present in the search index. The search behavior can be adapted in the project. Advanced suggest search shows matching search terms, products, categories, and suggests search terms based on previous searches.
Product Display & Actions	The following product views can be displayed: • Multiple product images, including product zoom • Product price • 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 notification for in 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 selector. The selection of product variations is dynamic. Advanced variations handling for complex products with a lot of variations can be configured. Product variations can be displayed in different ways (drop down, tiles, text, color picker and color picker 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 in 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. Customer specific, and order dependent scaled prices are supported for the logged in customer.
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 / s/m • Same parts
Promotions	Promotion messages and prices are displayed in product detail, product listing, cart and checkout pages.
Cookies	Intershop's Cookie, an integrated digital sales 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 Unit. Make sure to Google Maps integration is the default configuration for the B2C Business Unit.
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 image thumbnails • Subtotal, 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 or 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 copied and pasted from a spreadsheet. Product information will displayed live, with which equal fields for product ID and quantity.
Requisitions	Using the CSV upload, large amounts of products can be added to cart.
	B2B customers can create a requisition, which starts an approval process.
Addresses	Invoice and shipping addresses can be selected, added, and modified during checkout. Addresses can be managed in My Account as well.
Shipping	Shipping options including shipping costs, delivery time, and descriptions of the options are displayed. Shipping options can be selected. Shipping options can be added and edited. Customer messages to merchants.
	Payment options are displayed and can be selected during checkout.
Payment	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.
Contact Us	**Note** Some 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 • Ordered products with inventory information, quantity, additional information as custom field, image/urls, and total price • 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 • Ordered products with inventory information, quantity, additional information as custom field, image/urls, and total price • 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. Customer details, and order information such as order number, e-mail address, etc.
	Data protection related requests (Request Personal Data, Request Personal Data Deletion) are handled via the form as well.
Guest Checkout	Customers can perform a checkout without registering at the store.
OCI Punchout (B2B)	B2B customers can integrate the storefront into their procurement solution via OCI Punchout. The following features are supported: • OCI Punchout Configuration • OCI checkout is up to the storefront as an OCI Punchout user. Ordered middle parts of the storefront, add products to the cart. Example: the cart return to the user interface of the procurement system, and the cart is filled with the ordered products details in the OCI Punchout format • Validate products: log to the storefront as an OCI Punchout user, automatically create products related to the OCI Punchout format for a given product and quantity • Background search: log to the storefront as an OCI Punchout user, have all Intershop displayed in the OCI Punchout format match a given search term
cXML Punchout (B2B)	B2B customers can integrate the storefront into their procurement solution via cXML Punchout. The following features are supported: • cXML self service configuration • cXML checkout: log in to the storefront as a cXML Punchout user, browse middle parts of the storefront, add products to the cart. Example: the cart return to the user
My Account	
Login & Registration	The following scenes are supported: • Register as B2C customer (simple registration (currently not supported) • Registration approval • Register as a prospective (PR) B2C, B2C/B2B • Forgot password • Customer Approval • Newsletter Subscription Login as an external identity provider is supported. Additional users can be invited and can create a new account via OIDC. OIDC Login • 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 reorder, add to cart, add to order template, change order, B2B customers can view orders from all buyers in their organization and filter by a specific buyer.
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, move products between wish lists, and add products to the cart from wish lists.
	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.
Notifications	Product notifications for availability in stock and for price can be scheduled on product detail page and viewed, updated, and deleted in the My Account area.
My Organization	
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 accounts users and manage roles and budgets limits of users. **Company account users can be imported by bulk import based on an upstream CSV file.**
Cost Center Management	Administrators of B2B customer organizations or cost center managers can view, edit, and create cost centers and budgets. Budgets can be created, edited, and deleted. Budgets is used as a soft quota. Budgets can be assigned. **Sub centers can be organizing in a hierarchy, and budgets can be inherited from parent cost centers.**
Purchase	Administrators of B2B customer organizations can view, add, edit, and delete OCI or cXML Punchout users in order to automatically log in a user to the storefront when opening a Punchout session.
Content Management	
Pages/Includes	The following pages of the storefront can be managed by the integrated Content Management Capabilities: • Static Content Pages • Cookies • Terms
	All of B2B pages/includes the content is managed via Content Includes or Texts (includes the header).
Components	The following CMS components are supported within the storefront: • Carousel • Container • Editor • Product Listing/ Tower (with configurable key loading) • Product HTML • Image • Navigation Category • Navigation Link • Navigation Page • Product on Demand • Product List (Category) • Product List (Key) • Product List (BOD) • 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 EDS) can be used to preview content changes in the PWA, but without any direct 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 saved in a cookie.
Manage Translations	All texts of the PWA can be managed and translated in the Intershop Content Management Capabilities. Texts are stored in a translatable reference which allows the PWA to retrieve the texts in a language.
Analytics	
Tracking Integration	Analytics tools can be integrated via Google Tag Manager. Tracking of page views on Google Analytics and supported.
Search Engine Optimization	
Page Title 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 Structured URLs	SEO Friendly Structured URLs are supported for category pages, product list pages and product detail pages, including the product name.
Other	
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 channel specific URLs.
Multi Domain Support	One PWA installation can be connected to several Intershop Commerce Management systems, e.g. Live and at-ice. Custom admin differentiation.
Multi Platform Support	One PWA installation can connect several different Intershop platforms and can be switched by a configuration.
Hybrid Approach	It is possible to run the PWA in a hybrid mode with the Responsive Starter Store. Some parts of the storefront are 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 rendered.
	• Support for two separate applications
Privacy	Storefront features can be activated and deactivated via configuration of feature toggles. The following features can be activated or deactivated: Optional: • Contact Us • Product Compare • Product Ratings • Product Notifications • Recently Viewed Products • Store Locator • Multiple Language Selection • Legacy Encoding B2B features: • B2B Customer Registration • Requisitions • Messages to Merchant • Quoting • Quick Order • Order Templates • Punchout B2C features: • Wish Lists • Guest Checkout Third party integrations: • Cookie • Google Maps • Tracking (Google Tag Manager)
Feature Toggles		
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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