

SFCC HEADLESS PRO - ACCELERATOR OVERVIEW

Architecture

Decoupled React/PWA Kit frontend connected to Salesforce Commerce Cloud via SCAPI/SLAS APIs. Server-side rendered on Managed Runtime (Node.js, Lambda) with global CDN caching. Extends `@salesforce/retail-react-app` via component template overrides for rapid customization.

Technology Stack

Layer	Technology Stack
Frontend	React 18, Chakra UI 2.10, PWA Kit v5, Redux state management
Commerce APIs	Shopper Commerce API (SCAPI), SCAPI Cart, Order, Customer
Authentication	SLAS (Salesforce Login & Authorization Service) - OAuth 2.0 flows
Runtime	Salesforce Managed Runtime (Node.js environment, auto-scaling)
Analytics	GA4 integration, Google Tag Manager, Salesforce DW Analytics layer
AI & Search	"Ask Alex" embedded shopping assistant, faceted search with synonyms
Testing	Jest unit tests, Playwright e2e tests, Lighthouse CI integration
CI/CD Pipeline	GitHub Actions workflows -> Salesforce Managed Runtime deployment

Pre-Built Components Library

Category	Components
Commerce Pages	Home, Product Listing (PLP), Product Detail (PDP), Cart, Checkout, Account
UI Components	Mega Menu, Smart Search, Facets, Mini-Cart, Footer, Error Boundary, SEO
Integrations	GA4+GTM Analytics, AI Shopping Agent, Newsletter, Loyalty Program
Tools	SFRA Audit Scanner, API Discovery, Proposal Generator, Migration Playbook

Accelerated Sales Tools

Website Scanner: Analyzes any SFRA storefront from public URL in 30 seconds, generating detailed performance and architecture report. **API Discovery:** Maps SCAPI, OCAPI, and custom endpoints against client's SFCC instance. **Proposal Generator:** Auto-generates RFP responses, effort estimates, timeline, and cost projections based on site analysis.

Migration Roadmap - 8 Phases

Phase	Discovery	Design	Foundation	Build	Integrate	Analytics	Test	Launch
Timeline	1-2w	2-3w	3-4w	4-8w	6-10w	8-12w	10-14w	14-16w
Deliverable	Audit	Architecture	Setup	Components	APIs	Tracking	QA	Go-live