



yes psl moveing to next one

Here is a micro-level breakdown of user stories for the Product Store module. These stories ensure all functions, validations, edge cases, data flows, and integration points are covered for development, sprint planning, and QA.

Product Store – Micro-Level User Stories

US1: Add Product - Manual Entry

- As a master data manager, I want to add a new product via a form so the catalog can be expanded and products can be used in compliance screening.
 - Fields: Name, SKU/Code, Description, Category, HS Code, ECCN, Control Flags, UoM.
 - Required validations: Unique SKU, HS/ECCN must conform to current regulatory reference lists, description length limits.
 - On successful save, initial eligibility for export license is auto-checked.
 - Duplicate SKUs trigger blocking warning and error message.

US2: Add Product - Bulk Upload

- As a product admin, I want to bulk upload products using a template so large volumes can be imported easily.
 - Downloadable template must have all required columns, accepted values, and examples.
 - Upload shows row-level errors inline for user correction; valid products are committed, errors are logged for review.
 - Upload result (success/fail, details) is emailed and audit-logged.

US3: Edit Product Master

- As a product steward, I want to update product info (such as control codes, descriptions) so that changes reflect in future compliance workflows.
 - Each update to classification or control creates a new version, and historical versions are accessible in UI.
 - Changing HS/ECCN triggers rule engine re-evaluation for pending orders and notifications for impacted workflows.

- SKU cannot be edited but products can be marked as obsolete or discontinued.

US4: Product Classification & Mapping

- As a compliance officer, I want to assign, view, or re-classify control numbers (HS, ECCN) for products, so screenings and license allocations are done correctly in all jurisdictions.
 - UI dropdowns/list must be sourced from updated regulatory databases.
 - Bulk classification changes (e.g. after regulatory updates) require import/sync tools with audit trail.
 - Each classification has a validity period; expired codes are flagged in red and block related shipments.

US5: Product Data Integration (ERP Sync)

- As an IT integrator, I want to synchronize product catalog data via secure API, so external ERP changes reflect in compliance workflows with no double entry.
 - API supports full and incremental sync, change detection, and data conflict resolution logic.
 - Integration failures are logged and trigger in-app/integration alerts.

US6: Product Search & Reporting

- As any user, I want to search products by SKU, name, HS/ECCN, or control status so I can find, filter, and export products quickly for reporting and compliance checks.
 - Fast (~1 second for common queries), supports partial/fuzzy match, export as CSV.
 - "Recently changed" and "unclassified" quick filters available.
 - Download actions are permission-logged.

US7: Product API Access

- As an external system, I want to use APIs to pull product data, classifications, and version history to maintain consistency across enterprise systems.
 - Read-only and read-write access controlled by API key or OAuth.
 - API rate limits and input validation enforced.
 - All API calls are logged with originating user/system and timestamp.

US8: Exception Handling for Product Data

- As a product admin, I want any conflicts (e.g., attempted duplicate, invalid classification) to be flagged instantly, so I can resolve issues with minimal workflow interruption.
 - Exception details shown in UI with recommended action steps.
 - Open exceptions are tracked and must be cleared for workflow continuation.
 - Audit trail for all exceptions and resolutions.

This breakdown ensures every user-facing and integration detail is covered for your Product Store. If you'd like, I can move to micro-level order/transaction stories next, or any other module you prefer.