

LAB ASSIGNMENT - DOCUMENT MANAGER

File Upload SDK

Functionality: Handle document uploads from users.

Inputs: File (PDF, Word, Excel, etc.), metadata (title, description, tags).

Outputs: File stored in a repository with a unique identifier.

File Type Validation Library

Functionality: Validate supported file types during upload.

Inputs: File type, file size.

Outputs: Success or error message.

Folder Management SDK

Functionality: Create, edit, and delete folders for organizing documents.

Inputs: Folder name, parent folder ID (optional).

Outputs: Folder object with a unique ID.

Tagging Library

Functionality: Add, edit, and remove tags for documents.

Inputs: Document ID, tags.

Outputs: Updated document metadata with tags.

Role-Based Access Control Library

Functionality: Assign view, edit, or download permissions to users or groups.

Inputs: Document ID, user ID, permission level.

Outputs: Updated access control list (ACL).

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Document Viewer SDK

Functionality: Render documents (PDF, Word) for in-platform viewing.

Inputs: File URL or ID.

Outputs: Interactive viewer with scroll and zoom functionality.

Keyword Search within Document Library

Functionality: Search for keywords inside text-based documents (e.g., PDFs with OCR).

Inputs: Document ID, keyword.

Outputs: Highlighted matches within the document.

Multi-Page Navigation SDK

Functionality: Navigate through multi-page documents.

Inputs: Document ID, page number.

Outputs: Display the requested page.

Document Annotation SDK

Functionality: Add comments to documents.

Inputs: Document ID, annotation type (highlight, comment, etc.), user input.

Outputs: Annotated document with metadata.

Document Versioning Library

Functionality: Manage multiple versions of the same document.

Inputs: Document ID, new file.

Outputs: Updated document object with version history.

LAB ASSIGNMENT - SKU MANAGEMENT

Inventory Branch Setup SDK

- Functionality: Create and manage different inventory branches.
- Inputs: Branch name, location, contact details.
- Outputs: Unique branch ID and record.

SKU Creation Library

- Functionality: Create and assign unique SKUs for inventory items.
- Inputs: Item name, SKU code (auto/manual), category, subcategory and Brand name.
- Outputs: Unique SKU object.

SKU Search Library

- Functionality: Search inventory items by SKU, name, or category.
- Inputs: Search string or filter parameters.
- Outputs: List of matching items with details.

SKU Deactivation Library

- Functionality: Mark SKUs as inactive while retaining historical data.
- Inputs: SKU ID.
- Outputs: Confirmation of deactivation.

Barcode/QR Code Integration SDK

- Functionality: Generate and scan barcodes/QR codes for SKUs.
- Inputs: SKU code or product ID.
- Outputs: Encoded/decoded SKU data.

LAB ASSIGNMENT - SKU MANAGEMENT

Stock Level Tracking Library

- Functionality: Monitor real-time stock levels for all SKUs.
- Inputs: SKU code.
- Outputs: Current stock quantity, reserved stock, reorder threshold.

Stock Adjustment Library

- Functionality: Adjust stock levels for damages, returns, or corrections.
- Inputs: SKU ID, adjustment quantity, reason.
- Outputs: Updated stock level.

Reorder Alert SDK

- Functionality: Trigger alerts when stock falls below the reorder threshold.
- Inputs: SKU code, reorder threshold.
- Outputs: Notification object (e.g., email, webhook, or in-app alert).

Stock Transfer SDK

- Functionality: Transfer stock between warehouse locations or mobile agents.
- Inputs: Source location, destination location, SKU ID, quantity.
- Outputs: Updated stock levels at both locations.

Branch-Specific Stock Tracking Library

- Functionality: Track inventory levels per branch location.
- Inputs: SKU ID, branch ID.
- Outputs: Available stock quantity per branch.

LAB ASSIGNMENT - COST MANAGEMENT

Cost Entry SDK

- Functionality: Log individual cost entries with details.
- Inputs: Cost category, amount, date, and description.
- Outputs: Cost record object.

Invoice Generation SDK

- Functionality: Create invoices with client and product/service details.
- Inputs: Client ID, items (name, quantity, unit price), tax, discounts.
- Outputs: Invoice object with unique invoice number.

Invoice Editing Library

- Functionality: Update existing invoices for changes or corrections.
- Inputs: Invoice ID, updated items or amounts.
- Outputs: Modified invoice object.

Invoice Due Reminder SDK

- Functionality: Notify clients of upcoming or overdue invoices.
- Inputs: Invoice ID, due date, client contact details.
- Outputs: Notification object (email, SMS, in-app).

Tax Calculation Library

- Functionality: Automatically calculate taxes for invoices based on regional tax rules.
- Inputs: Subtotal, tax rate, region.
- Outputs: Tax amount and updated total.

LAB ASSIGNMENT - COST MANAGEMENT

Payment Logging SDK

- Functionality: Log payments against invoices.
- Inputs: Invoice ID, payment amount, payment method (e.g., cash, credit).
- Outputs: Updated payment history for the invoice.

Payment Receipt Generator Library

- Functionality: Generate payment receipts for clients.
- Inputs: Invoice ID, payment details.
- Outputs: Receipt object (PDF or digital).

Invoice Status Tracking SDK

- Functionality: Track invoice statuses (e.g., Paid, Unpaid, Overdue).
- Inputs: Invoice ID, payment status.
- Outputs: Updated invoice status.

Payment History Log Library

- Functionality: Maintain a log of all payments associated with an invoice.
- Inputs: Invoice ID, payment details.
- Outputs: Comprehensive payment history.

Invoice Summary Report SDK

- Functionality: Generate reports summarizing invoices by status, client, or date range.
- Inputs: Filter parameters (date range, status, client ID).
- Outputs: Report object (tabular or graphical).