

Use Case Descriptions

Use case 1	Register an account
Summary	Create an account; system sends a verification email.
Actor	User
Precondition	User owns an email address.
Postcondition	Inactive account exists; verification email sent.
Base sequence	<ol style="list-style-type: none">1. User enters email & password [ALT1][ALT2].2. System creates an inactive account.3. System sends a time-limited verification email [ALT3].4. System confirms registration.
Alternate sequence (branch or exception)	[ALT1] Email already registered. [ALT2] Invalid email or weak password. [ALT3] Email delivery issue. [*ALT0] Can cancel at any time.
Note	Covers requirement 1.1

Use case 2	Verify email
Summary	Activate an account via verification link.
Actor	User
Precondition	Inactive account; valid verification token issued.
Postcondition	Account marked verified.
Base sequence	<ol style="list-style-type: none"> 1. User follows email link. 2. System validates token [ALT1]. 3. System marks account verified and shows success.
Alternate sequence (branch or exception)	[ALT1] Token expired/invalid/already used. [*ALT0] Can cancel at any time.
Note	Covers requirement 1.2

Use case 3	Log in
Summary	Authenticate to access the application.
Actor	User
Precondition	Account exists and is verified.
Postcondition	Authentication session established.
Base sequence	<ol style="list-style-type: none"> 1. User logs in entering email & password [ALT1]. 2. System validates credentials. 3. Session created.
Alternate sequence (branch or exception)	[ALT1] Wrong credentials (go back to 1). [*ALT0] Can cancel at any time.
Note	Covers requirement 1.3

Use case 4	Reset password
Summary	User resets forgotten password.
Actor	User
Precondition	User has an active account.
Postcondition	User regains access of the account.
Base sequence	<ol style="list-style-type: none"> 1. User inserts email address. 2. System validates email address [ALT1]. 3. System sends recovery email to user's email address. 4. User inserts new password. 5. System validates password [ALT2]. 6. System assigns new password to email address.
Alternate sequence (branch or exception)	<p>[ALT1] Email doesn't exist/invalid.</p> <ul style="list-style-type: none"> • Go back to 1. <p>[ALT2] Weak password.</p> <ul style="list-style-type: none"> • Go back to 4. <p>[*ALT0] Can cancel at any time.</p>
Note	Covers requirement 1.4

Use case 5	Log out
Summary	End the authenticated session.
Actor	User
Precondition	Authenticated session exists.
Postcondition	Session revoked.
Base sequence	<ol style="list-style-type: none"> 1. User logs out. 2. System invalidates session and clears cookies.
Alternate sequence (branch or exception)	[*ALT0] Can cancel at any time.
Note	Covers requirement 1.5

Use case 6	Link Google account
Summary	Link Google Drive for read-only access.
Actor	User
Precondition	User is logged in.
Postcondition	Google tokens stored securely; status Connected.
Base sequence	<ol style="list-style-type: none"> 1. User connects to Google. 2. System redirects to Google consent for read only access [ALT1]. 3. User consents; provider redirects back with code [ALT2]. 4. System exchanges code for tokens; stores encrypted [ALT3]. 5. System confirms connection with Google.
Alternate sequence (branch or exception)	<p>[ALT1] User denies consent (go back to 1).</p> <p>[ALT2] Code missing/invalid (go back to 1).</p> <p>[ALT3] Token exchange fails (go back to 1).</p> <p>[*ALT0] Can cancel at any time.</p>
Note	Covers requirement 2.1

Use case 7	Link Microsoft account (OneDrive)
Summary	Link Microsoft for read-only access.
Actor	User
Precondition	User is logged in.
Postcondition	Microsoft tokens stored; status Connected.
Base sequence	<ol style="list-style-type: none"> 1. User connects to Microsoft. 2. Redirect to consent for read-only access [ALT1]. 3. User consents; tokens stored [ALT2]. 4. System confirms connection with Microsoft.
Alternate sequence (branch or exception)	<p>[ALT1] User denies consent (go back to 1).</p> <p>[ALT2] Exchange fails (go back to 1).</p> <p>[*ALT0] Can cancel at any time.</p>
Note	Covers requirement 2.2

Use case 8	Manage provider connection (status / refresh / disconnect)	
Summary	View connection state, auto-refresh tokens when needed, or disconnect.	
Actor	User	
Precondition	At least one provider previously linked.	
Postcondition	Status displayed; token may be refreshed; provider may be disconnected.	
Base sequence	Scenario A View connection state	1. User opens Connections. 2. System lists the providers with connection state.
	Scenario B Auto-refresh tokens when needed	1. User performs an action that calls a provider API. 2. If access token expired, the system attempts to refresh once [ALT1].
	Scenario C Disconnect from provider	1. User clicks disconnect for a provider. 2. System deletes tokens. 3. Status becomes not connected [ALT2].
Alternate sequence (branch or exception)	<p>[ALT1] Refresh failed (revoked/expired).</p> <ul style="list-style-type: none">Show reconnect. <p>[ALT2] Delete fails (no tokens found).</p> <ul style="list-style-type: none">Show success but allow reconnect later. <p>[ALT3] Email delivery issue.</p> <p>[*ALT0] Can cancel at any time.</p>	
Note	Covers requirement 2.3, 2.4, 2.5	

Use case 9	Add SharePoint sites
Summary	Add SharePoint site(s) to include their document libraries.
Actor	User
Precondition	Microsoft account linked with delegated permissions.
Postcondition	Selected site IDs stored; libraries available in the system.
Base sequence	<ol style="list-style-type: none"> 1. User enters site URL or picks from list. 2. System validates URL [ALT1]. 3. System resolves site and lists its document libraries [ALT2]. 4. User selects libraries. 5. System stores selection.
Alternate sequence (branch or exception)	<p>[ALT1] Invalid site URL (go back to 1).</p> <p>[ALT2] User lacks permission.</p> <p>[ALT3] Email delivery issue.</p> <p>[*ALT0] Can cancel at any time.</p>
Note	Covers requirement 2.6

Use case 10	Browse unified files (read-only)
Summary	Browse a single dashboard for all connected providers.
Actor	User
Precondition	At least one provider connected.
Postcondition	Read-only listing shown
Base sequence	<ol style="list-style-type: none"> 1. User wants to see all files. 2. System loads first page merged from connected providers.
Alternate sequence (branch or exception)	[*ALT0] Can cancel at any time.
Note	Covers requirement 3.1

Use case 11	Cross-provider search
Summary	Search by name across all connected providers.
Actor	User
Precondition	At least one provider connected
Postcondition	Results displayed
Base sequence	<ol style="list-style-type: none"> 1. User enters file name 2. User selects one or both providers 3. System queries only selected providers 4. System aggregates and displays results [ALT1] [ALT2]
Alternate sequence (branch or exception)	<p>[ALT1] Provider error.</p> <ul style="list-style-type: none"> • Retry or reconnect provider. <p>[ALT2] No matches.</p> <ul style="list-style-type: none"> • Go back to 1. <p>[*ALT0] Can cancel at any time.</p>
Note	Covers requirement 3.2, 3.4

Use case 12	Open item in provider & see item's metadata	
Summary	Open the selected item in its native provider web app. View the selected item's metadata	
Actor	User	
Precondition	Item exists; user has permission; provider reachable.	
Postcondition	Provider viewer opened in a new tab. Metadata of the selected item visible.	
Base sequence	Scenario A Open item in provider's web app	1. User selects item to open. 2. System opens the item's URL in the providers web app (in a new tab) [ALT1].
	Scenario B See item's metadata	1. User selects item to view its meta data. 2. System shows items metadata.
Alternate sequence (branch or exception)	[ALT1] Token expired. <ul style="list-style-type: none">Attempt refresh<ul style="list-style-type: none">On failure show reconnect [ALT2] Permission denied/not found. <ul style="list-style-type: none">Show error<ul style="list-style-type: none">Go back to 1. [*ALT0] Can cancel at any time.	
Note	Covers requirement 3.3, 3.5	