# Functional Requirement

FR-01 Register Asset

Description: User submits asset details for registration; system validates data, stores the record, and notifies administrators.

Input: UserID, AssetID, Name, CategoryID, Status, PurchaseDate, Supplier.

Output: Registered asset record in Asset table, notification email to administrators.

FR-02 Query Asset Information

Description: User searches assets by name, model, purchase date, etc.; system returns matching records.

Input: UserID, search criteria (Name, Model, PurchaseDate, …).

Output: Result list on screen, query operation log.

FR-03 Change Asset Status

Description: User submits a status-change request; system launches approval workflow, updates status after approval, and notifies stakeholders.

Input: UserID, AssetID, NewStatus, Reason.

Output: Updated status in Asset table, approval-process record in ApprovalProcess table, notification emails.

FR-04 Delete Obsolete Asset

Description: User requests deletion of obsolete assets; system runs approval workflow, removes record after approval, and notifies stakeholders.

Input: UserID, AssetID, Reason.

Output: Removed Asset record, approval-process record, notification emails.

FR-05 Import Asset Data

Description: User uploads Excel/CSV file; system parses and imports data, then notifies administrators.

Input: UserID, data file (Excel/CSV).

Output: Updated Asset table, notification email.

FR-06 Export Asset Report

Description: User generates and downloads asset reports based on parameters; system notifies administrators upon completion.

Input: UserID, report parameters (date range, category, etc.).

Output: Download link to report file, notification email.

FR-07 User Registration

Description: New users fill required info; system validates, creates account, and sends activation email.

Input: Username, password, email address.

Output: New User record, activation email.

FR-08 User Login

Description: Users log in with username and password; system verifies credentials.

Input: Username, password.

Output: Login status (success/failure), login log.

FR-09 Query User Information

Description: Users search user records by username, ID, department, etc.

Input: UserID, search criteria (username, user ID, department).

Output: Result list on screen, operation log.

FR-10 Modify User Permissions

Description: Admin submits permission-change request; approval workflow runs; permissions updated upon approval, stakeholders notified.

Input: ManagerID, UserID, NewPermissions, Reason.

Output: Updated User permissions, approval-process record, notification emails.

FR-11 Deactivate User Account

Description: User requests account deactivation; approval workflow runs; account removed after approval.

Input: UserID, Reason.

Output: Removed User record, approval-process record, notification email.

FR-12 Submit Approval Process

Description: User submits any request; system validates and launches approval workflow.

Input: UserID, ProcessID, AssetID (or other entity), Reason.

Output: Approval-process record, notification email to approvers.

FR-13 Review Approval Process

Description: Admin reviews and approves or rejects requests; system updates status and notifies requester.

Input: ManagerID, decision (Approve/Reject), Comments.

Output: Updated approval status, notification email.

FR-14 Reject Approval Process

Description: Admin rejects request with reason; system updates status and notifies requester.

Input: ManagerID, Reason.

Output: Updated approval status, notification email.

FR-15 Query Approval Records

Description: Users search approval records by item, status, date, etc.

Input: UserID, search criteria (item, status, date).

Output: Result list on screen, operation log.

FR-16 Export Approval Report

Description: User generates and downloads approval reports; system notifies administrators.

Input: UserID, report parameters (date range, status).

Output: Download link, notification email.

FR-17 Admin Login

Description: Administrators log in with username and password; system verifies credentials.

Input: Username, password.

Output: Login status (success/failure), login log.

FR-18 Admin Settings

Description: Admins adjust system configuration (user permissions, asset categories, approval rules); changes logged.

Input: ManagerID, configuration changes.

Output: Updated settings in database, admin operation log.

FR-19 View System Report

Description: Users load and view system reports based on parameters; administrators notified.

Input: UserID, report parameters (date range, specific user).

Output: Report data on screen, notification email.

FR-20 Generate Asset Report

Description: User creates asset report; system provides download link and notifies administrators.

Input: UserID, parameters (date range, asset IDs).

Output: Download link, notification email.

FR-21 Export System Log

Description: User exports system logs; system provides download link and notifies administrators.

Input: UserID, log parameters (date range, log level).

Output: Download link, notification email.

FR-22 View Asset Status Change Log

Description: User queries asset-status change records by asset name, change date, etc.

Input: UserID, search criteria (asset name, change date).

Output: Result list on screen, operation log.

FR-23 Send Email

Description: User sends email to other system users; system delivers message.

Input: UserID, email content (recipient, subject, body, attachments).

Output: Sent email stored, operation log.

FR-24 View Email

Description: User reads system emails; system displays sender, recipients, subject, time, body.

Input: UserID.

Output: Email content on screen, operation log.

FR-25 View System Log

Description: User queries system logs by type, date range, keyword.

Input: UserID, search criteria (type, date range, keyword).

Output: Result list on screen, operation log.

FR-26 Modify Admin Permissions

Description: Admins adjust other admins’ permissions; system logs the change.

Input: ManagerID, TargetManagerID, NewPermissions, Reason.

Output: Updated Manager permissions, operation log.