# Functional Requirement

#### 1.1 Asset Registration Function

\*\*Function Number:\*\* FR-01

\*\*Description:\*\* Users can enter information for new assets, including asset name, type, purchase date, and value. The system automatically assigns an asset ID and saves the information to the database.

\*\*Input:\*\* Asset Name (AssetName), Asset Type (AssetType), Purchase Date (PurchaseDate), Asset Value (Value)

\*\*Output:\*\* Registered asset (Asset) record

#### 1.2 Asset Usage Function

\*\*Function Number:\*\* FR-02

\*\*Description:\*\* Users can view and use registered assets, and the system records the user's usage behavior.

\*\*Input:\*\* User ID (UserID), Asset ID (AssetID)

\*\*Output:\*\* Updated asset record (AssetRecord)

#### 1.3 Asset Transfer Function

\*\*Function Number:\*\* FR-03

\*\*Description:\*\* Users can initiate asset transfer requests, and the asset ownership information is updated after approval.

\*\*Input:\*\* Transfer request information (including Source User ID (SourceUserID), Target User ID (TargetUserID), Asset ID (AssetID))

\*\*Output:\*\* Updated asset record (AssetRecord) and approval record (ApprovalRecord)

#### 1.4 Asset Return Function

\*\*Function Number:\*\* FR-04

\*\*Description:\*\* Users can return assets that are in use, and the system records the return action.

\*\*Input:\*\* Return request information (including User ID (UserID), Asset ID (AssetID))

\*\*Output:\*\* Updated asset record (AssetRecord)

#### 1.5 Report Generation Function

\*\*Function Number:\*\* FR-05

\*\*Description:\*\* Users can generate various types of asset reports, such as asset inventory and asset usage statistics.

\*\*Input:\*\* User ID (UserID), Report Type (ReportType)

\*\*Output:\*\* Generated report (Report)

#### 1.6 Permission Allocation Function

\*\*Function Number:\*\* FR-06

\*\*Description:\*\* System administrators can assign or adjust user permission configurations.

\*\*Input:\*\* Administrator ID (ManagerID), User ID (UserID), Permission Type (PermissionType)

\*\*Output:\*\* Updated permission configuration (PermissionConfiguration)

#### 1.7 Approval Process Management Function

\*\*Function Number:\*\* FR-07

\*\*Description:\*\* System administrators can create, edit, query, and delete approval processes.

\*\*Input:\*\* Administrator ID (ManagerID), Approval process information (ProcessName, ProcessDescription)

\*\*Output:\*\* Updated approval process (ApprovalProcess)

#### 1.8 Data Import and Export Function

\*\*Function Number:\*\* FR-08

\*\*Description:\*\* Users can import asset data into the system in Excel format or export data from the system as Excel files.

\*\*Input:\*\* Import/Export request (including User ID (UserID), Operation Type (OperationType), File Path (FilePath))

\*\*Output:\*\* Updated asset data (Asset) and data import/export records (DataImportExport)

#### 1.9 System Log Viewing Function

\*\*Function Number:\*\* FR-09

\*\*Description:\*\* Users can view system operation logs to understand the history of asset changes and system operations.

\*\*Input:\*\* User ID (UserID)

\*\*Output:\*\* System logs (SystemLog)

#### 1.10 Asset Record Management Function

\*\*Function Number:\*\* FR-10

\*\*Description:\*\* System administrators can manage asset records, including adding, deleting, and editing.

\*\*Input:\*\* Administrator ID (ManagerID), Asset record information (RecordID, AssetID, UserID, OperationType, OperationDate, Description)

\*\*Output:\*\* Updated asset record (AssetRecord)

#### 1.11 Approval Record Management Function

\*\*Function Number:\*\* FR-11

\*\*Description:\*\* System administrators can manage approval records, including adding, deleting, and editing.

\*\*Input:\*\* Administrator ID (ManagerID), Approval record information (RecordID, ProcessID, UserID, ApprovalStatus, ApprovalDate)

\*\*Output:\*\* Updated approval record (ApprovalRecord)

#### 1.12 Permission Configuration Management Function

\*\*Function Number:\*\* FR-12

\*\*Description:\*\* System administrators can configure system permissions, including setting permission types and configuration times.

\*\*Input:\*\* Administrator ID (ManagerID), Permission configuration information (PermissionID, UserID, PermissionType, ConfigDate)

\*\*Output:\*\* Updated permission configuration (PermissionConfiguration)