# Functional Requirement

### 1.1 Asset Registration Function

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

\*\*Description:\*\* System administrators or users can register new asset information. The system needs to validate the input data and save it to the asset data entity.

\*\*Input:\*\* Asset name, category, ID, status, department of ownership, and other information.

\*\*Output:\*\* The newly added asset record in the system, including a unique identifier, and the updated asset list.

### 1.2 Asset Management Function

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

\*\*Description:\*\* System administrators or users can modify, delete, or transfer asset information, and record the corresponding transfer or return records based on the type of operation.

\*\*Input:\*\* Asset ID, operation type (edit, delete, transfer, return), modified information or approval status.

\*\*Output:\*\* Updated asset records, newly added transfer or return records, and the refreshed asset list.

### 1.3 Asset Report Generation Function

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

\*\*Description:\*\* System administrators or users can generate reports containing asset information, transfer records, and return records, and export them in Excel or PDF format.

\*\*Input:\*\* Filtering conditions (time range, asset category, department, status, etc.).

\*\*Output:\*\* Generated asset reports (in table or chart form), and exportable report files (such as Excel, PDF).

### 1.4 User Registration Function

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

\*\*Description:\*\* Users can create accounts in the system by filling out a registration form. The system saves user authentication information to the authentication information data entity.

\*\*Input:\*\* Username, password, confirm password, department, contact information, and other details.

\*\*Output:\*\* The newly added user authentication information in the system, and the updated user list.

### 1.5 User Management Function

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

\*\*Description:\*\* System administrators can add, modify, or delete user information, and synchronize updates to authentication information as needed.

\*\*Input:\*\* User ID, operation type (add, edit, delete), modified user information or permission settings.

\*\*Output:\*\* Updated user records, and synchronized updates to authentication information.

### 1.6 System Administrator Addition Function

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

\*\*Description:\*\* System administrators can add other system administrator accounts and save the corresponding user and authentication information to the system.

\*\*Input:\*\* Username, password, confirm password, department, contact information, and other details.

\*\*Output:\*\* The newly added system administrator account in the system, and the updated user list.

### 1.7 System Administrator Deletion Function

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

\*\*Description:\*\* System administrators can delete other system administrator accounts and synchronously delete their authentication information.

\*\*Input:\*\* System administrator ID, confirmation of deletion operation.

\*\*Output:\*\* The deleted system administrator account and its authentication information in the system, and the refreshed user list.

### 1.8 Transfer Record Management Function

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

\*\*Description:\*\* System administrators or users can view transfer records. The system supports filtering, searching, and exporting functions.

\*\*Input:\*\* Filtering conditions (time range, asset ID, transfer initiator, recipient, approval status, etc.).

\*\*Output:\*\* The filtered transfer record list in the system, and exportable report files.

### 1.9 Return Record Management Function

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

\*\*Description:\*\* System administrators can manage return records, including modifying or deleting return information, and refresh the return record list.

\*\*Input:\*\* Return record ID, operation type (edit, delete), modified return information.

\*\*Output:\*\* The updated or deleted return records in the system, and the refreshed return record list.

### 1.10 Approval Process Management Function

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

\*\*Description:\*\* System administrators or users can configure and manage approval processes, including adding, editing, deleting, and enabling/disabling approval processes.

\*\*Input:\*\* Approval process ID, operation type (add, edit, delete, enable, disable), approval process configuration information (such as process name, approver role, etc.).

\*\*Output:\*\* The updated or newly added approval process in the system, and the refreshed approval process list.

### 1.11 Authentication Information Modification Function

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

\*\*Description:\*\* System administrators or users can modify their own authentication information, such as passwords, and verify that the new information complies with security rules.

\*\*Input:\*\* Current password, new password, confirm new password.

\*\*Output:\*\* The updated authentication information in the system, and return to the user information page or login page.

### 1.12 Authentication Information Verification Function

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

\*\*Description:\*\* The system verifies the authentication information of users or system administrators when they attempt to log in, including whether the username and password match.

\*\*Input:\*\* Username, password.

\*\*Output:\*\* Verification result (success or failure), and the operation log of authentication verification.

### 1.13 Subject Management Function

\*\*Function Number: FR-13\*\*

\*\*Description:\*\* System administrators can create, modify, or delete subject information for asset classification.

\*\*Input:\*\* Subject ID, operation type (add, edit, delete), subject name, description.

\*\*Output:\*\* The updated or newly added subject records in the system, and the refreshed subject list.

### 1.14 Data Export Function

\*\*Function Number: FR-14\*\*

\*\*Description:\*\* System administrators or users can export filtered reports, transfer records, or return records in Excel or PDF format.

\*\*Input:\*\* Filtered report or record list, export format selection (Excel, PDF, etc.).

\*\*Output:\*\* The generated report file, and a download link provided.