# Functional Requirement

1. Functional Requirements  
  
1.1 Asset Registration Function   
 Function ID: FR-01   
 Description: Administrators can register new assets in the system by providing details such as name, description, purchase date, status, category, and location.   
 Input: Asset details including Name, Description, PurchaseDate, Status, Category, and Location.   
 Output: A new Asset record in the database and an email confirmation sent to the Administrator.  
  
1.2 Asset Management Function   
 Function ID: FR-02   
 Description: Administrators can update or delete existing asset records in the system.   
 Input: Selected AssetID and updated or deletion request data.   
 Output: Updated or deleted Asset record in the database and an email notification to the Administrator.  
  
1.3 Asset Details View Function   
 Function ID: FR-03   
 Description: Administrators can view detailed information of a specific asset.   
 Input: Selected AssetID.   
 Output: Displayed Asset details including Name, Description, PurchaseDate, Status, Category, and Location.  
  
1.4 Asset Information Modification Function   
 Function ID: FR-04   
 Description: Administrators can modify the information of an existing asset, including name, description, status, category, and location.   
 Input: Selected AssetID and updated asset information.   
 Output: Updated Asset record in the database and an email notification to the Administrator.  
  
1.5 Asset Removal Function   
 Function ID: FR-05   
 Description: Administrators can remove an asset from the system after verifying it is not in use.   
 Input: Selected AssetID and confirmation of deletion.   
 Output: Removed Asset record from the database and an email notification to the Administrator.  
  
1.6 Asset Usage Assignment Function   
 Function ID: FR-06   
 Description: Administrators can assign an asset for usage to a specific user or department by providing usage details such as date, type, and description.   
 Input: Selected AssetID and usage assignment details (UsageDate, UsageType, UsageDescription, RequestStatus).   
 Output: Updated AssetUsage record in the database and an email notification to the Administrator.  
  
1.7 Asset Usage History View Function   
 Function ID: FR-07   
 Description: Administrators can view the usage history of a specific asset, including usage dates, types, and descriptions.   
 Input: Selected AssetID.   
 Output: Displayed AssetUsage history including UsageDate, UsageType, UsageDescription, and RequestStatus.  
  
1.8 Asset Usage Reporting Function   
 Function ID: FR-08   
 Description: Administrators can generate reports on asset usage data, including filtering by date range or asset selection.   
 Input: Filter criteria such as AssetID, date range, and report format (e.g., PDF, Excel).   
 Output: Generated AssetReport and an optional exported file or email notification to the Administrator.  
  
1.9 Email Notification Sending Function   
 Function ID: FR-09   
 Description: The system automatically sends email notifications to administrators based on system events such as asset registration, modification, or deletion.   
 Input: Event data including AssetID, action performed, and Administrator email address.   
 Output: EmailNotification record in the database and an email sent to the Administrator.  
  
1.10 Email Notification View Function   
 Function ID: FR-10   
 Description: Administrators can view a list of previously sent email notifications, including details such as title, content, send date, and recipient.   
 Input: None.   
 Output: List of EmailNotification records displayed to the Administrator.  
  
1.11 Administrator Account Management Function   
 Function ID: FR-11   
 Description: Administrators can create, update, or delete other administrator accounts in the system.   
 Input: Administrator details including Name, Email, Role, Department, and AdminID (for updates and deletions).   
 Output: Updated or deleted Administrator record in the database and an email notification to the Administrator.  
  
1.12 Administrator Profile Update Function   
 Function ID: FR-12   
 Description: Administrators can update their own profile information, such as name and contact details.   
 Input: Updated Administrator profile data including Name, Email, and Role.   
 Output: Updated Administrator record in the database and an email notification to the Administrator.  
  
1.13 Administrator Account Deletion Function   
 Function ID: FR-13   
 Description: Administrators can delete another administrator account after verifying it is not in use.   
 Input: Selected AdminID and confirmation of deletion.   
 Output: Deleted Administrator record from the database and an email notification to the Administrator.  
  
1.14 Asset Archive Log Management Function   
 Function ID: FR-14   
 Description: Administrators can view, filter, or export logs of assets that have been archived.   
 Input: Filter criteria such as ArchiveID, ArchiveDate, Reason, and AdminID.   
 Output: Displayed or exported AssetArchiveLog records including ArchiveDate, Reason, and AdminID who performed the action.  
  
1.15 Asset Usage Request Management Function   
 Function ID: FR-15   
 Description: Administrators can review and process asset usage requests by approving or rejecting them.   
 Input: Selected RequestID, approval or rejection decision, and optional reason for rejection.   
 Output: Updated AssetUsageRequest record in the database, updated AssetUsage status, and email notifications sent to the requestor and Administrator.  
  
1.16 Email Notification Configuration Function   
 Function ID: FR-16   
 Description: Administrators can configure email notification settings, such as enabling/disabling notifications, selecting event types, and specifying recipient preferences.   
 Input: Email notification configuration data including NotificationType, Enabled status, and Recipient email address.   
 Output: Updated EmailNotification settings in the database and an optional confirmation email to the Administrator.