# Functional Requirement

1.1 Asset Registration Function   
 Function ID: FR-01   
 Description: Administrators can register new assets into the system by entering essential details.   
 Input: Asset details including Name, Description, Category, Status, PurchaseDate, and Location.   
 Output: A new Asset entity is stored in the database with a generated AssetID.  
  
1.2 Asset Information Update Function   
 Function ID: FR-02   
 Description: Administrators can update the details of an existing asset.   
 Input: AssetID and updated fields such as Name, Description, Category, Status, PurchaseDate, and Location.   
 Output: The updated Asset entity is stored in the database.  
  
1.3 Asset Deletion Function   
 Function ID: FR-03   
 Description: Administrators can delete an asset from the system after confirming it is not in use.   
 Input: AssetID and a confirmation to proceed with deletion.   
 Output: The Asset entity is removed from the database, and the deletion is logged.  
  
1.4 Asset Usage Assignment Function   
 Function ID: FR-04   
 Description: Administrators can assign a specific usage to an asset, including details and usage type.   
 Input: AssetID, UsageDate, UsageType, and UsageDetails.   
 Output: A new AssetUsage entity is created and stored in the database, linked to the corresponding Asset.  
  
1.5 Asset Usage Modification Function   
 Function ID: FR-05   
 Description: Administrators can modify the usage details of an existing asset usage record.   
 Input: UsageID and updated fields such as UsageDate, UsageType, and UsageDetails.   
 Output: The modified AssetUsage entity is stored in the database.  
  
1.6 Asset Usage Deletion Function   
 Function ID: FR-06   
 Description: Administrators can delete a specific asset usage record.   
 Input: UsageID and a confirmation to proceed with deletion.   
 Output: The AssetUsage entity is removed from the database, and the deletion is logged.  
  
1.7 Asset Usage History Viewing Function   
 Function ID: FR-07   
 Description: Administrators can view the usage history of an asset, including timestamps and usage types.   
 Input: AssetID or a search query to identify the asset.   
 Output: A list of UsageHistory records is retrieved and displayed, linked to the selected AssetUsage.  
  
1.8 Email Notification Sending Function   
 Function ID: FR-08   
 Description: Administrators can send email notifications to users regarding asset usage.   
 Input: UsageID, ToAddress, FromAddress, Subject, and Content of the notification.   
 Output: An Email entity is created and sent through the integrated email system.  
  
1.9 Notification Record Management Function   
 Function ID: FR-09   
 Description: The system automatically tracks and records the status and details of each email notification sent.   
 Input: UsageID and EmailID from the system's internal records.   
 Output: A NotificationRecord entity is created and stored in the database with SendStatus and SendDate.  
  
1.10 Administrator Account Management Function   
 Function ID: FR-10   
 Description: System Administrators can create, update, or delete other administrator accounts.   
 Input: AdminID (for update/delete), or new administrator details (Name, Role, EmailID, Department).   
 Output: A new or modified Administrator entity is stored in the database, or the account is deleted and logged.  
  
1.11 Administrator Account Deletion Function   
 Function ID: FR-11   
 Description: System Administrators can delete another administrator account from the system.   
 Input: AdminID and a confirmation to proceed with deletion.   
 Output: The Administrator entity is removed from the database, and the deletion is logged.  
  
1.12 Administrator Information Viewing Function   
 Function ID: FR-12   
 Description: System Administrators can view the details of other administrator accounts.   
 Input: AdminID or a search query to identify the administrator.   
 Output: The selected Administrator entity's details are retrieved and displayed.