UseCase Descriptions

University Stock Management
Srinidh & Jithender

Use Case 01: Login

ID: UC-001

Name: User Login

Created_by: Srinidh,Jithender

Created_at: 26-02-2026

Updated_by:

Updated_at

Actor: Admin/Verification Officer

Preconditions: User must be registered in the system

Postconditions: User is successfully logged into system

Normal Flow:

    1.User enters username and password.

    2.System validates credentials

    3.System grants access and redirects to dashboard.

Alternate Flow:

    Display error message if credentials are invalid

Frequency: As required

Business Rule:

    1.Only authorized people can access the system

    2.Passwords must be encrypted in database

Assumptions: Authentication Server is functioning properly

Use Case 02: Add Rooms

Use Case ID: UC-02

Name: Add Room

Created_by: Srinidh, Jithender

Created_date: 26-02-2026

Updated_by: -

Updated_date: -

Actor: Admin

Description: Admin adds a new room to the system.

Pre-Condition:

    Admin must be logged in.

Post-Condition:

Room details are stored in database.

Normal Flow:

Admin selects "Add Room".

Admin enters room details.

System validates input.

System saves room data.

Alternate Flow:

If room already exists, error message must be displayed

Frequency: Occasional

Business Rule: Room name must be unique.

Assumptions: Admin provides valid room information.

Use Case ID: UC-03

Name: Add Inventory Item

Created_by: Srinidh,Jithender

Created_date: 26-02-2026

Updated_by: -

Updated_date: -

Actor: Admin

Description: Admin adds new item to room inventory.

Pre-Condition:

Admin logged in.

Room exists.

Post-Condition:

Item stored in database with unique Item ID.

Normal Flow:

Admin selects room.

Admin enters item details

System generates unique Item ID

System saves item in database.

Alternate Flow: If required fields are empty,system displays validation error.

Frequency: Whenever new stock is purchased

Business Rule:

Each item must have a unique ID.

Item must belong to one room.

Assumptions: Item details are accurate

Use Case ID: UC-04

Name: Generate QR Code

Created_by: Srinidh,Jithender

Created_date: 26-02-2026

Updated_by: -

Updated_date: -

Actor: Admin

Description: System generates QR code for each inventory item.

Pre-Condition: Item must be registered in system**.**

Post-Condition:QR code linked to item is generated and stored**.**

Normal Flow:

   Admin selects item.System generates QR code with Item

   QR code is displayed.

   Admin downloads/prints QR code.

Alternate Flow: If item not found, display error message.

Frequency: Once per item

Business Rule: One QR code per item.

Assumptions:QR generation service is functioning properly**.**

Use Case ID: UC-05

 Name: Verify item via QR scan

 Created_by: Srinidh,Jithender

 Created_date: 26-02-2026

 Updated_by: -

 Updated_date: -

 Actor: Verification Officer

 Description: Used during periodic stock verification to update item verification status.

Pre-Condition:

   Verification officer logged in.

   QR code attached to item.

Post-Condition:

   Verification record updated with current date and status.

Normal Flow:

   Officer selects "Scan QR".

   System activates scanner.

   QR code is scanned.

   System extracts Item ID.

   System updates verification date and status.

   Confirmation message displayed.

Alternate Flow:

   display error if qr is invalid

   display "item not registered" if not found

Frequency: Every 6 months

Business Rule: Verification must be recorded with timestamp.
Assumptions:

QR code is readable.

Scanner device is working properly.

Use Case ID: UC-06
Name: Generate Verification Report
Created_by: Srinidh,Jithender
Created_date: 26-02-2026
Updated_by: -
Updated_date: -
Actor: Admin
Description: Generates report of verified and unverified items.
Pre-Condition: Verification data exists.
Post-Condition: Report generated successfully.
Normal Flow:

Admin selects room.

Admin selects time period.

System retrieves data.

System displays report.

Admin downloads report if required.

Alternate Flow: If no records found ,display message.
Frequency: Every 6 months or as required
Business Rule: Report must show verified and pending items separately.
Assumptions: Database is accessible.