# Project Design

## Phase -2
## Solution Requirements(Functional &Non - Functional)

| Date | 02 November 2025 |
|---|---|
| Team ID | NM2025TMID02364 |
| Project Name | To Supply Leftover Food to Poor |
| Maximum Marks | 4 Marks |

## Functional Requirements

The following functional requirements define how the system will behave to prevent user deletion when the user is linked to an incident:

| FR No. | Functional Requirement(Epic) | Sub Requirement (Story /Sub-Task) |
|---|---|---|
| FR-1 | UserManagement | Admin should be able to view, |

| | | add, and manage user accounts. |
|---|---|---|
| **FR -2** | User DeletionRequest | Admin can request to delete a specific user from the system. |
| **FR -3** | IncidentAssignment Validation | The system automatically checks if the user is assigned to any active or pending incidents. |
| **FR -4** | DeletionRestriction | If the user is assigned to anyincident, the system blocks the deletion process and displays an alert or warning message. |
| **FR -5** | Safe Deletion Execution | If the user is not assigned to any |

| | | incident, the system proceeds to delete the user record safely. |
|---|---|---|
| **FR -6** | Notification System | The system notifies the incident manager when a deletion attempt involves a user linked to an incident. |
| **FR -7** | Audit Log Maintenance | Every deletion attempt(successful or blocked) is recorded in the system logs for accountability and traceability. |

**Non-Functional Requirements**

The following non-functional requirements ensure that the system operates efficiently, securely, and reliably while performing the user deletion validation:

| NF R No. | Non-Functional Requirement | Description |
| --- | --- | --- |
| NF R-1 | Usability | The admin interface should be intuitive, displaying clear messages when deletion is blocked or successful. |
| NF R-2 | Security | Only authorized admins can request user deletions, and access should be verified through authentication |
| NF R-3 | Reliability | The system must consistently |

| | | check for incident assignments before processing any deletion request. |
|---|---|---|
| NF R-4 | Performance | The validation check should execute within seconds to ensure smooth user management operations. |
| NF R-5 | Availability | The feature should be available 24/7 so admins can manage users and incidents at any time. |

| NF R-6 | Scalability | The system should handle an increasing number of users and incidents efficiently as the organization grows. |
|--------|-------------|------------------------------------------------------------------------------------------------------------|
| NF R-7 | Auditability | All actions related to deletion requests and system responses must be logged for future review and compliance. |