Functional requirement

x table. Functional requirement „name“

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Requirement id** | 1. | **Requirement type:** | functional | | |
| **Requirement:** | System shall provide user authentication and allow users to create accounts with a username and password. | | | | | |
| **Description** | This requirement is important to ensure that users can access the platform securely and maintain anonymity during messaging. | | | | | |
| **Source:** | End-users | | | | | |
| **Fit criteria’s** | Managers can create groups and add/remove members.  Messages within groups are encrypted and maintain anonymity.  **PTA:** Create a group, add members, and send an anonymous message to the group.  **NTA:** Attempt to create a group without necessary permissions. | | | | | |
| **Priority:** | FR id. | **Conflict:** | FR id. | **Dependencies** | FR id |

Functional requirement

x table. Functional requirement „name“

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Requirement id** | 2. | **Requirement type:** | functional | | |
| **Requirement:** | System shall support the creation and management of groups by company managers. | | | | | |
| **Description** | This requirement is required to enable company managers to facilitate anonymous communication within designated groups of employees. | | | | | |
| **Source:** | Company managers | | | | | |
| **Fit criteria’s** | * Managers can create groups and add/remove members. * Messages within groups are encrypted and maintain anonymity.   PTA: Create a group, add members, and send message to the group.  NTA: Attempt to create a group without necessary permissions. | | | | | |
| **Priority:** | FR id. | **Conflict:** | FR id. | **Dependencies** | FR id |

Functional requirement

x table. Functional requirement „name“

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Requirement id** | 3. | **Requirement type:** | functional | | |
| **Requirement:** | System shall allow company managers to create and distribute anonymous feedback surveys. | | | | | |
| **Description** | This requirement is important for gathering employee feedback on specific or general topics while preserving anonymity. | | | | | |
| **Source:** | Company managers | | | | | |
| **Fit criteria’s** | * Managers can create surveys with customizable questions. * Employees can respond anonymously, and results are accessible only to the manager.   PTA: Create a survey, respond anonymously, and verify that only the manager can view the results.  NTA: Attempt to access survey results without proper authorization. | | | | | |
| **Priority:** | FR id. | **Conflict:** | FR id. | **Dependencies** | FR id |

Functional requirement

x table. Functional requirement „name“

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Requirement id** | 1. | **Requirement type:** | functional | | |
| **Requirement:** | System shall implement end-to-end encryption for all messages and data transmission. | | | | | |
| **Description** | This requirement is crucial to ensure the privacy and security of user communication within the platform. | | | | | |
| **Source:** | System architects | | | | | |
| **Fit criteria’s** | * Messages are encrypted before transmission and can only be decrypted by the intended recipient. * The encryption algorithm used meets industry standards.   PTA: Send a message and verify that it can only be decrypted by the intended recipient.  NTA: Attempt to intercept and decrypt messages without the proper encryption keys. | | | | | |
| **Priority:** | FR id. | **Conflict:** | FR id. | **Dependencies** | FR id |

Non-Functional requirement

x table. Non - Functional requirement „name“

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Requirement id** | 1. | **Requirement type:** | performance | | |
| **Requirement** | System shall demonstrate high performance with quick message delivery and minimal latency. | | | | | |
| **Description** | This non-functional requirement ensures a responsive user experience and efficient message delivery. | | | | | |
| **Source:** | System performance analyst | | | | | |
| **Fit criteria’s** |  **PTA**   1. Measure message delivery time under various conditions, ensuring it is within the specified timeframe (e.g., under 5 seconds). 2. Conduct load testing with increasing user loads to verify the platform's performance scalability.    **NTA :**   1. Simulate unfavorable network conditions to observe how the system handles delayed message delivery. 2. Overload the system beyond the specified limit and observe its response to identify potential performance bottlenecks. | | | | | |
| **Priority:** | NFR id. | **Conflict:** | NFR id. | **Dependencies** | NFR id |

Non-Functional requirement

x table. Non - Functional requirement „name“

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Requirement id** | 2. | **Requirement type:** | Security | | |
| **Requirement** | System shall comply with industry standards for data security and relevant privacy regulations. | | | | | |
| **Description** | This non-functional requirement ensures the security and legal compliance of the platform. | | | | | |
| **Source:** | Legal and compliance team | | | | | |
| **Fit criteria’s** |  **PTA**   1. Conduct regular security audits to ensure compliance with established security standards. 2. Verify that the platform's data protection mechanisms align with privacy regulations such as GDPR.    **NTA**   1. Attempt to identify and exploit security vulnerabilities to assess the platform's resistance to unauthorized access. 2. Simulate non-compliance scenarios and verify that the system alerts administrators and takes appropriate actions. | | | | | |
| **Priority:** | NFR id. | **Conflict:** | NFR id. | **Dependencies** | NFR id |

PTA -positive test case

NTA – negative test case