**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

|  |  |
| --- | --- |
| Date | 02-10-2025 |
| Team ID | **SWUID20250216599** |
| Project Name | Smart Meet |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| **FR-1** | User & Account Management | Sign up, Login, Password Reset Profile Management   |  | | --- | |  | |
|  |  | |  | | --- | |  |  |  | | --- | | Auth login using Google / Microsoft | |
| **FR-2** | Meeting Management | |  | | --- | |  |  |  | | --- | | Schedule a new meeting with a specific time and date | |
|  |  | Start an instant meeting |
|  |  | Generate and share unique meeting links |
| **FR-3** | |  | | --- | |  |  |  | | --- | | In-Meeting Experience | | High-quality audio and video streaming Screen sharing (full screen, specific application) |
|  |  | Real-time chat for all participants Participant controls (mute/unmute, start/stop video) |
| **FR-4** | Post-Meeting Features | Record meetings to the cloud or locally Access, view, and download past meeting recordings |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **NFR No.** | **Non-Functional Requirement** | **Description** |
| **NFR-1** | **Usability** | The platform should offer a clean, intuitive UI, allowing users to join meetings with a single click. |
| **NFR-2** | **Security** | |  | | --- | |  |  |  | | --- | | All data transfers, including video and audio streams, must be encrypted (end-to-end). Implement role-based access (Host, Participant) and secure token authentication. | |
| **NFR-3** | **Reliability** | |  | | --- | |  |  |  | | --- | | Ensure job posting, messaging, and payments work reliably under all conditions. | |
| **NFR-4** | **Performance** | Audio/video latency should be under 150ms for real-time interaction. Meeting join time should be less than 5 seconds. |
| **NFR-5** | **Availability** | |  | | --- | | The system should maintain 99.9% uptime across all services, including meeting servers and the user dashboard. | |
| **NFR-6** | **Scalability** | The architecture must support a high number of concurrent meetings and participants, scaling dynamically based on load.   |  | | --- | |  | |