

**Requirement Gathering and Analysis Phase**  
**Solution Requirements (Functional & Non-functional)**

Date	22 June 2024
Team ID	PNT2022TMID1720113552
Project Name	Project - Video Conferencing Application
Maximum Marks	3 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 Registration	<ul style="list-style-type: none"><li>• Registration through Form</li><li>• Registration through Gmail</li><li>• Registration through LinkedIn</li></ul>
FR-2	User Confirmation	<ul style="list-style-type: none"><li>• Confirmation via Email</li><li>• Confirmation via OTP</li></ul>
FR-3	Video Conferencing	<ul style="list-style-type: none"><li>• Initiate a Video Call</li><li>• Join a Video Call</li><li>• Real-time Audio &amp; Video Communication</li><li>• Screen Sharing</li><li>• Mute Audio &amp; Video</li></ul>
FR-4	Collaboration features	<ul style="list-style-type: none"><li>• Virtual Whiteboard</li><li>• File Sharing</li><li>• Chat Functionality</li></ul>
FR-5	Call Management	<ul style="list-style-type: none"><li>• Schedule Meetings</li><li>• Manage Participants</li><li>• Recording</li></ul>
FR-6	User Management	<ul style="list-style-type: none"><li>• User Profile Management</li><li>• Contact Management</li></ul>
FR-7	Calendar Integration	<ul style="list-style-type: none"><li>• Connect calendar accounts(e.g, Google Calendar, Outlook)</li><li>• Application displays upcoming meetings</li><li>• Create and add events to the calendar</li></ul>

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	<ul style="list-style-type: none"><li>• The user interface should be intuitive and easy to navigate for users of all technical backgrounds.</li></ul>

		<ul style="list-style-type: none"> <li>• The application should provide clear instructions and visual cues for all functionalities.</li> <li>• The video conferencing experience should be seamless and user-friendly.</li> </ul>
NFR-2	<b>Security</b>	<ul style="list-style-type: none"> <li>• The application must implement secure user authentication and authorization mechanisms.</li> <li>• All data transmission, including audio, video, and messages, should be encrypted.</li> <li>• The application should be compliant with relevant data privacy regulations.</li> </ul>
NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"> <li>• The application should be highly reliable with minimal downtime or disruptions.</li> <li>• The video conferencing experience should be stable and consistent across different network conditions.</li> </ul>
NFR-4	<b>Performance</b>	<ul style="list-style-type: none"> <li>• The application should deliver high-quality audio and video with minimal lag or latency.</li> <li>• The application should be responsive and provide fast loading times for all functionalities.</li> </ul>
NFR-5	<b>Availability</b>	<ul style="list-style-type: none"> <li>• The application should be available to users 24/7 with minimal downtime for maintenance.</li> <li>• The application should be able to handle high volumes of concurrent users without performance degradation.</li> </ul>
NFR-6	<b>Scalability</b>	<ul style="list-style-type: none"> <li>• The application architecture should be scalable to accommodate a growing user base and increasing call volume.</li> <li>• The application should be able to integrate with additional features and functionalities in the future.</li> </ul>