

Virtual Meet & Collaboration App

User authentication
through invite link

Meeting Platform

Create Meeting

Screen Sharing

Chat

Virtual Hand Raising

Polls

Mute Everyone

Record

Encrypt

Add Organizer

File Sharing

Whiteboard

Connect Webcam

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App design consideration of features

1. **Create Meeting** – Lets a host add participants and send out an invite with an agenda, link to the meeting and any documents if deemed necessary.
2. **Screen Sharing** – An organizer can share the presentation or video from his/her computer for the participants to view
3. **Chat** – Participants of a meeting can effectively communicate with each other or with organizer. This is useful in asking and answering questions. They can choose to message all members of the meeting at the same time or individually message participants. The chat option should preferably allow only text so that a malicious actor can't introduce a malicious link in. The privilege of sharing links should be with host.
4. **Virtual Hand-Raising** – When a participant wants to speak or express their concerns about a particular topic, they can notify the host by using the virtual hand-raising emoji. This further improves the efficiency of the video conferencing app and also prevents multiple people from speaking at once.
5. **Polls** – If the host wants to understand the participant's opinion about a particular topic, they can gather their responses by creating a poll.
6. **Mute Everyone** – This allows the host to avoid any disruptions and make sure only the presenter's voice is audible
7. **Record** – The meeting can be easily recorded with the click of a single button. This recording can then be uploaded to the cloud or stored locally on the device and shared on social network or any website for future viewing. This privilege should be exclusive to the host.
8. **Encrypt** – The end-to-end encryption feature prevents any unauthorized person from joining the meeting. Even the company itself cannot join a meeting without the host's permission. The encryption can be like while opening a channel Asymmetric/Public key encryption is used to establish a tunnel and then the data flow is encrypted using Symmetric key encryption which will lead to better performance.
9. **Add Organizer** – If there are multiple hosts then this feature can help in giving the same privileges to the other host.
10. **File Sharing** – Allowing call participants to exchange files is a convenient feature. For example, in a doctor consultation, it will allow a patient to send test results or any previous medical record. Due to end to end encryption any sensitive data is protected from being sniffed by a Man-in-the-middle (MITM).
11. **Whiteboard** – This is a valuable feature for educational applications, in which a user needs to teach something to other users. It gives the “teacher” user a tool to express an idea graphically to his “student” users.
12. **Connect webcam** – This feature allows a user to stream video and audio to other users in real-time. It can be really helpful in Disaster Control Applications, where a rescue worker with access to disaster zones can give feedback about a situation to government or rescue organizations in real-time, so that they can perform the appropriate necessary actions.