

Some of selected features:

- **Voice Control & Captions:** Functional Requirements
- **Voice Filter:** Environment Requirements
- **Screen share:** Data Requirements
- **Private chat:** Environment Requirements
- **Access Permission:** Non-Functional Requirements

Voice Control & Captions

Requirement #: 1

Requirement Type: 1

Event/Use case #: 5

Description: provide online meeting app with voice control and subtitles

Rationale: For the blind it's hard to use an online meeting app unless they can control it and give order by only voice. Furthermore for the deaf, people who can't hear clearly because of noise or issues with the sound system, others talk to foreigners and have to translate what they say. It's preferred to provide this app with captions or subtitles to represent what is said.

Source: machine learning researchers

Fit Criterion: comparing actual said words with appeared written captions

Customer Satisfaction: 69

Customer Dissatisfaction: 7

Dependencies: Voice filter

Conflicts: None

Supporting Materials: speech recognition libraries

History: speech recognition has a long history, the most remarkable events are:

- 14 November 2008, Google launches the voice search app for iPhone
- 4 October 2011, Apple announces Siri
- 2 April 2014, Microsoft announces Cortana
- 6 November 2012, Amazon announces the Echo

Voice Filter

Requirement #: 2

Requirement Type: 4

Event/Use case #: 1

Description: **Filter participant voice during talking in any meeting**

Rationale: **Sometimes there is a problem to hear the speaker because of his surround environment that has much noise, so it's better to filter his voice for more clarity**

Source: **First raised by Ray Dolby**

Fit Criterion: **the effect of noisy environment during speaking should be more than some prespecified value**

Customer Satisfaction: 7

Customer Dissatisfaction: 0

Dependencies: **None**

Conflicts: **None**

Supporting Materials: **audio noise reduction techniques**

History: **raised in 1966**

Screen share

Requirement #: 3

Requirement Type: 3

Event/Use case #: 1

Description: **allow participants to share their screen with others in the same meeting**

Rationale: **In case of instructors who use online meeting apps it's essential to share and illustrate data with other participants thus it must be a way to share their screen with the others.**

Source: **Apple Inc.**

Fit Criterion: **pressing on share screen button, other participants should be able to see this shared screen**

Customer Satisfaction: **7**

Customer Dissatisfaction: **0**

Dependencies: **None**

Conflicts: **None**

Supporting Materials: **Remote login**

History: **raised in 2007**

Private chat

Requirement #: 4

Requirement Type: 3

Event/Use case #: 2

Description: **adding private chat where two participants can communicate privately.**

Rationale: **Sometimes one participants need to share data or message with only one person without making this data available to all participants in the same meeting**

Source: **Doug Brown**

Fit Criterion: **If a message is specified to be sent to only one participant, other participants shouldn't be able to see it or even know it is sent.**

Customer Satisfaction: 7

Customer Dissatisfaction: 0

Dependencies: **None**

Conflicts: **None**

Supporting Materials: **public chat materials supplied in current apps**

History: **1973**

Access permission

Requirement #: 5

Requirement Type: 2

Event/Use case #: 3

Description: Prevent permanent access to hardware resources as camera and microphone

Rationale: Most current applications get access to some hardware resources even if they aren't used at the time, so for more security it's better to prevent such accesses unless this resource is being used currently.

Source: Hardware Engineers

Fit Criterion: every time app starts running it requires an access permission

Customer Satisfaction: 5

Customer Dissatisfaction: 2

Dependencies: None

Conflicts: Ease of use will be affected as each time app is opened the same message asking for the same permission appears

Supporting Materials: Operating System device drivers

History: First raised in 1956