

# **Process Description**

## **1) Create Meeting**

Pre-condition: User has appropriate permissions to create a meeting.

Input: Meeting details (e.g., title, agenda, participant list).

Output: Confirmation message indicating successful creation of the meeting.

Logic: The process validates the input meeting details, creates a new meeting instance, and stores the meeting information in the database. It then notifies the user about the successful creation of the meeting.

## **2) Join Meeting**

Pre-condition: User has been invited to or has access to the meeting.

Input: Meeting ID or invitation link.

Output: Confirmation message indicating successful joining of the meeting.

Logic: The process verifies the provided meeting ID or invitation link, checks the user's credentials, and grants access to the meeting. It then updates the meeting attendance records and notifies the user about successful joining.

## **3) Leave Meeting**

Pre-condition: User is currently part of the meeting.

Input: Leave request.

Output: Confirmation message indicating successful leaving of the meeting.

Logic: The process receives a leave request from the user, removes the user from the list of meeting participants, and updates the meeting attendance records accordingly. It then notifies the user about successful leaving of the meeting.

## **4) Gesture Recognition**

Pre-condition: Sign language recognition feature is activated.

Input: Live video stream of user's sign language gestures.

Output: Translated text/audio of recognized gestures.

Logic: The process continuously analyzes the incoming video stream, detects sign language gestures, and translates them into text or audio using gesture recognition algorithms. It then sends the translated output to the appropriate components for further processing or display.

## **5) Text Generation**

Pre-condition: Text generation feature is activated.

Input: Text input from gesture recognition process.

Output: Text-to-speech output or displayed text.

Logic: The process receives text input from gesture recognition, processes it as needed (e.g., formatting, language processing), and generates corresponding text-to-speech output or displays the text within the meeting interface. It may also handle any additional functionalities related to text generation, such as language translation or speech synthesis.

# **Data Dictionary**

## **1) Name**

Description: The name of the meeting participant.

Type: String

Constraints: Maximum character limit may apply.

## **2) Email**

Description: The email address of the meeting participant.

Type: String (Email format)

Constraints: Valid email format required.

## **3) Mobile Number**

Description: The mobile number of the meeting participant.

Type: String

Constraints: Valid phone number format may apply.

## **4) Password**

Description: The password of the meeting participant.

Type: String

Constraints: Password strength requirements may apply.

## **5) Meeting Link (ID)**

Description: The unique identifier or link associated with the meeting.

Type: String

Constraints: Unique identifier or link format may vary.

## **6) Join/Create**

Description: Indicates whether the participant joined the meeting or created it.

Type: String (Enumerated)

Values: "Join", "Create"