The Office Niche: The Conversational Assistant AI Bot

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In this application, the basic insight is to combine the features of Skype and MS Teams to have a chatbot system that works on NLP, voice trigger input/output and text to speech and speech to text conversions.

The features shortlisted from the likes of Skype + MS Teams + Whatsapp are:

- 1. FRS: Facial Recognition System based Sign-IN/Sign-OUT
- 2. Group/Chat rooms: Group/Individual messages
- 3. Video Call
- 4. Non-Video call
- 5. Chat Messages
- 6. Message audio recorder
- 7. Message video recorder
- 8. Text editor
- 9. Geo-tagging/location
- 10. Schedule a call
- 11. Create a poll
- 12. Notifications
- 13. Activity log report
- 14. Add/remove contacts
- 15. Search a word
- 16. Gallery
- 17. File sharing system
- 18. Departmental teams: Broadcast messages
- 19. Calendar: Schedule meetings
- 20. Shifts
- 21. Notes
- 22. Approvals
- 23. Task planner and to-do list
- 24. Bookings
- 25. Help section
- 26. **The gossip section (: non-office communication; something that is irrelevant to office work)

The design features to be provided in the application resemble mostly the following:

- 1. Every user gets a username and password to login into the application and can see their relevant channels.
- 2. Essentially for login, they'll be showing their face and FRS be done on their photo... to verify their identity.
- 3. Departmental channels: Broadcast channels (for instance from HR, Finance, Payroll...)
- 4. If there are n departments in the organization, then there will be n*(n-1)/2 inter-departmental channels automatically created.
- 5. Chat rooms: individuals/group chats

- 6. Conference rooms: attendance marked/time calculated
- 7. Video calls
- 8. NLP: Natural language processing (machine learning): voice trigger input => speech to text and text to speech; so it'll be a conversational chat going on.. (→ This might be of use in Avatarify Project)
- 9. All chats will be monitored except "The gossip section" which will be opened up during the lunch hours only.. and then it closes and shuts down... and no messages are recorded or saved.. So any important conversation must be noted down or done through official channel only.. It's saved only for that session... and deleted forever.. like no memory.. it's like a game where there is no progress saved..