

HCI

PROJECT

REPORT

ONLINE MEETING APPLICATION





FINAL REPORT

Human Computer Interaction

Meeting and Online Lectures App

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Project Proposal

ABSTRACT

Advances in digital technology are bringing qualitative analysis new possibilities. Among these, the online meeting application is an innovative videoconference platform with a number of unique features that enhance its potential appeal to researchers with both qualitative and mixed methods. Application for meetings became almost synonymous with office meetings and socializing as people are around the world have adapted to life at home amid the coronavirus outbreak. This project will focus on the use of online learning to build the capacity of the learning environment to provide quality professional development to enable moderators and teachers to integrate technology into the curriculum to meet standards. This online application aims to improve student achievement through the use of technology, to raise student technology literacy, and to ensure that teachers integrate technology into the curriculum effectively.

TASK ANALYSIS

MAIN ACTORS ROLE

Following are the '3' major actors for the proposed system:

1. Students
2. Teacher
3. Moderator

Main purpose of these following actors are discussed below:

Student Side:

1. Students can register and sign up through email (i.e Gmail ,Facebook etc) and join through meeting.
2. The system given an option to student to check the history of their quizzes, tasks and obtained marks.
3. The program offers users the option to connect their MIS / LMS account to our app to take online classes.
4. Students have the choice of lifting their hands and they may pose questions.
5. Students can view and download the study material which the faculty uploads.

6. Students can time mark their attendance while logging in from their respective LMS / MIS accounts.
7. Students can also access the books of library as per their choice.
8. Student can type any query which he or she want's to ask to there lecturer by typing.
9. Student can ask query by opening there mic or by rising hand option.
10. Student can upload there profile pictures.
11. Students can set there user name before joining the meeting.
12. Student can see the previous record of the meeting.
13. Student can mute and unmute them selves if they wants to ask question.
14. Students can on there video if they wants to give any presentation or project evolution.

Moderator Side:

1. Moderator can define mutual settings for both the user, i.e. teacher and student.
2. Moderator can maintain login/logout logs, attendance report, and class timings.
3. Moderator is required to accept the joining request of the students so that the flow of the class and teacher is not affected.
4. Moderator can record the lectures that will be automatically available in History Section for both the users i.e. Teacher and Students.
 - a. Moderator has the rights to remove any of the student, if he found disturbing the class.
5. Moderator is responsible for the material that is outside the course, he can upload all the Books and Thesis in Library Section, and also can manage its record.
6. Moderator can change the password of ids for both the users.

Teacher Side:

1. In teacher panel, teacher can answers the queries asked by the students.
2. Teacher can provide all the material related to his course in the same app with respect to Upload Date.
3. The app will have a feature for the teacher, if a student doesn't reply any question asked by the teacher or did not participate in the lecture for a specific time, the app will automatically put the student profile in "Sleepy Students" , which can be managed by the teacher.
4. The teacher can receive answer by the students in term of voice, and can also solve some problems on virtual white board by the students.
5. Teacher can share screen or can share a specific part of the screen.
6. The starting and ending time of class will be stored in logs which can be viewed by the moderator.

7. Teacher can conduct quiz, MCQs based as well as DQA's based.
8. Teacher can mark quizzes and assignment on the same proposed system, which will be shown to the students.
9. Teacher can admit or remove the joining request of the participants.
10. Teacher can lock the meeting session also so no outsider can join the session.
11. Teacher can remove the participant if he or she is disturbing the class.
12. Teacher can share the screen.
13. Teacher can record there lecture.
14. Teacher can create the meeting and update or change the password also.
15. Teacher can set the security also who can share there screen or who can unmute themselves and speak through mic.
16. Teacher can also set the chat box privacy (i.e:Everyone,only me,or Participants who has joined the session)
17. Teacher can see who wants to ask question by raising hand option.
18. Teacher and students can attached links and send the photos also.
19. Teacher can also mute and unmute the participants.

MAIN FEATURES:

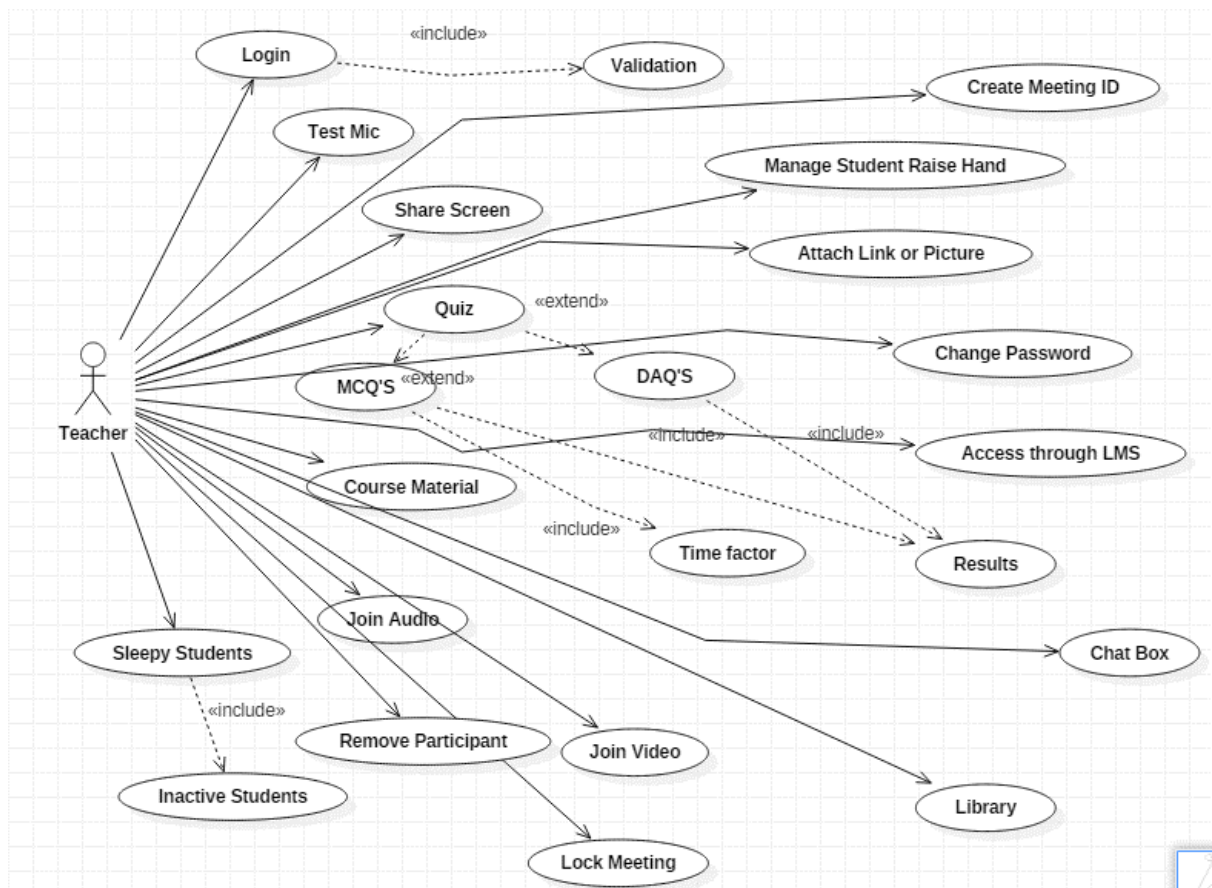
1. Join from anywhere on any device.
2. Access robust security solutions throughout.
3. Built-in tools for screen sharing.
4. HD video and audio calls.
5. Identify lazy students easily.

PROBLEM ADDRESSED:

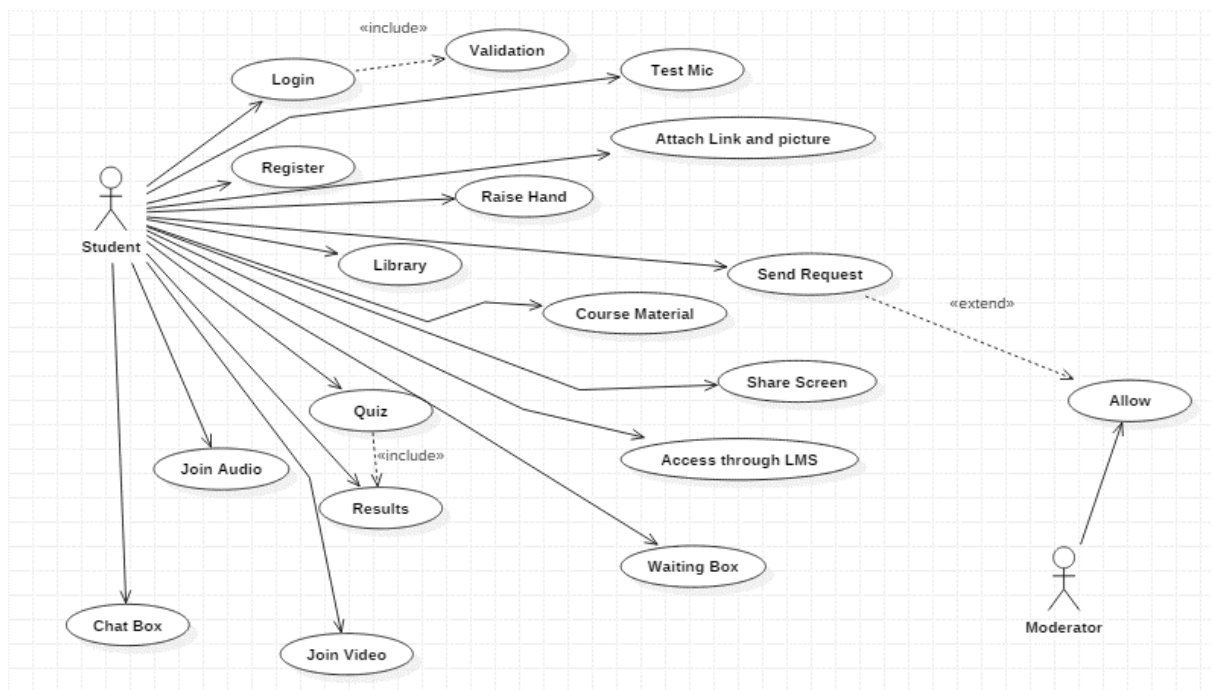
According to some technology analysts, the greatest obstacle to meeting application going forward is not about solving those issues. It is doing it in a way that helps meeting application to retain the simplicity that first made it so popular. Cybersecurity cases are increasing by 82.5%. MORE people are online now – whether for business, education , entertainment, socializing or working from home because of the control of movement order. 18% or 152 cases involved local companies, while the rest were home users and others.

USECASE:

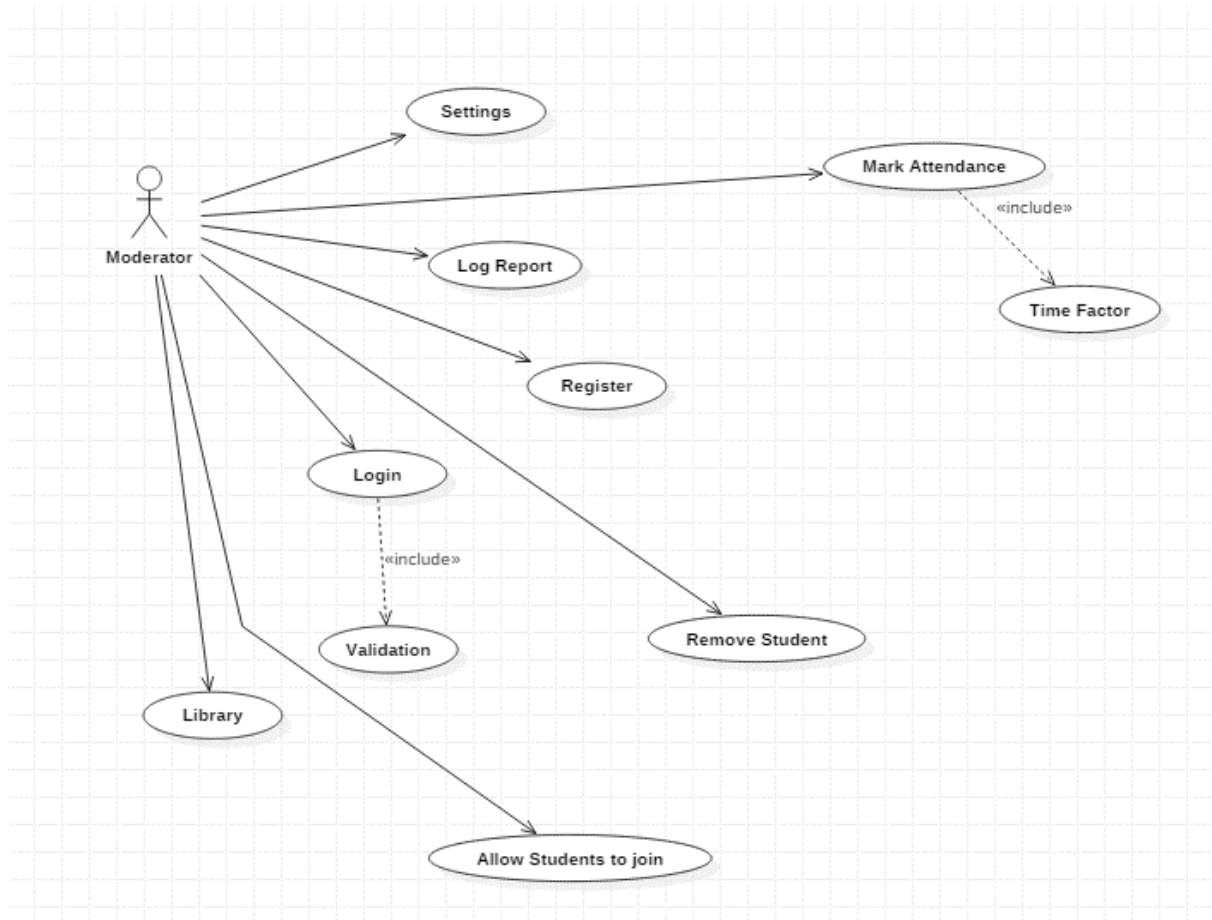
Teacher Side:



Student Side:

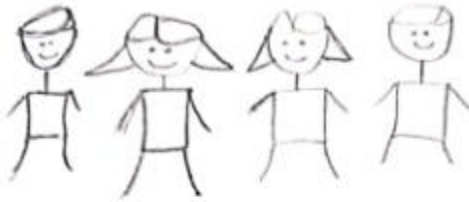


Moderator Side:



Project Storyboard

①



These are students

②



These are teachers

③



This is moderator

④



Student use PC to attend lecture

⑤



Teacher use PC to deliver lecture to students

⑥



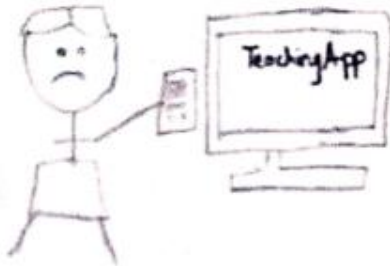
Moderator use PC to moderate on-going meeting

⑦



They all downloaded our app

⑧



They all try every single option on our app but they didn't understand.

CLEAR STORY ABOUT HOW OUR APP WILL BE USED:-

Moderator Uses our app to moderate on-going meeting

①



Moderator sign up
on app

②



Moderator login on app

③



Moderator creates
meeting

④



Moderator updates Library and
maintain class timings

⑤



Moderator defines and
create settings for
both student and teacher

⑥



Moderator add
students in a meeting
if they requested to
join.

⑦



Moderator maintain
attendance report
of students

8



Moderator record lectures of on-going meeting

9



Moderator removes a student from meeting if he/she is disturbing the class

10



Moderator updates/changes password for teacher and students if required.

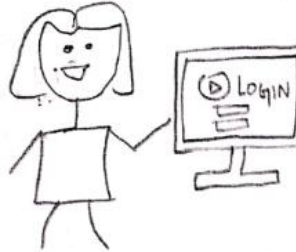
Teacher uses our app to deliver Lecture to Students

①



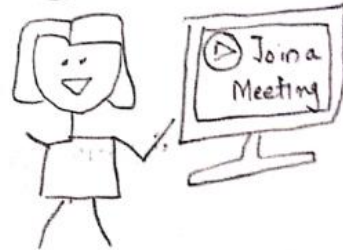
Teacher Sign up on our app

②



Teacher LogIn on app

③



Teacher join a meeting with id and password

④



Teacher starts class

⑤



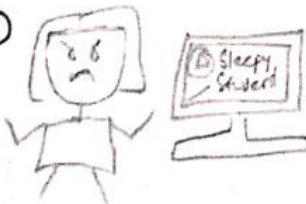
Teacher mark attendance of students

⑥



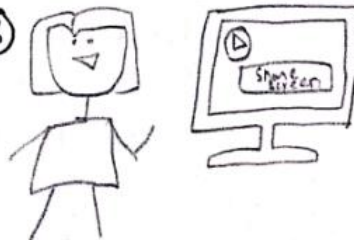
Teacher provides material related to the course

⑦



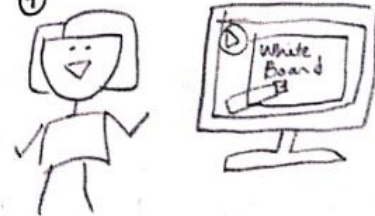
Teacher puts Sleepy Student in their profile and remove them if they are not answering the questions

⑧



Teacher start screen sharing

⑨



Teacher starts using white board to solve student queries



Teacher locks the meeting so that no outsiders can join.



Teacher is resolving student queries by seeing chat box and hearing student voices.



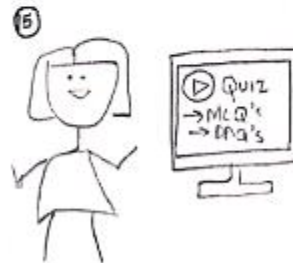
Teacher mutes/unmutes the students.



Teacher attach picture / link related to course.



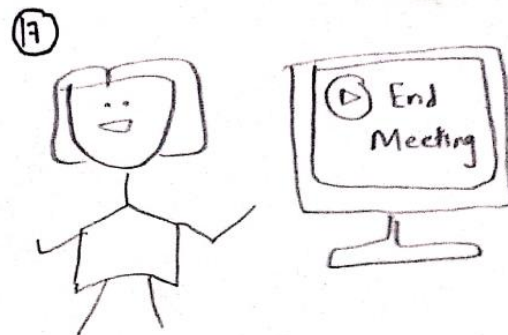
Teacher sets privacy settings, mute/unmute, set security who can share screen etc.



Teacher takes quiz of students.



Teacher mark quizzes, assignments and return to students.



Teacher ends the meeting.

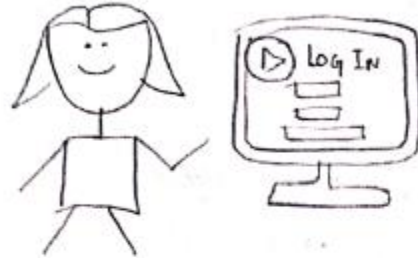
Student uses app to attend Lecture

①



Student sign up on app

②



Student log in on app

③



Student join a meeting via their mts/directly

④



Student clicks on option of view quizzes, assignments and Task history to check if there is any quiz to attempt.

⑤



Student check marks of their quizzes/assignments if updated

6



Student starts attending lecture

7



Student Raise hand, use chat Box if they have any query

8



Student access Library if they need any book

9



Students download Course material from app

9



Student attends quiz if assigned, on app

10



Student upload their profile picture if they want

11



Student shares their screen if teacher allows

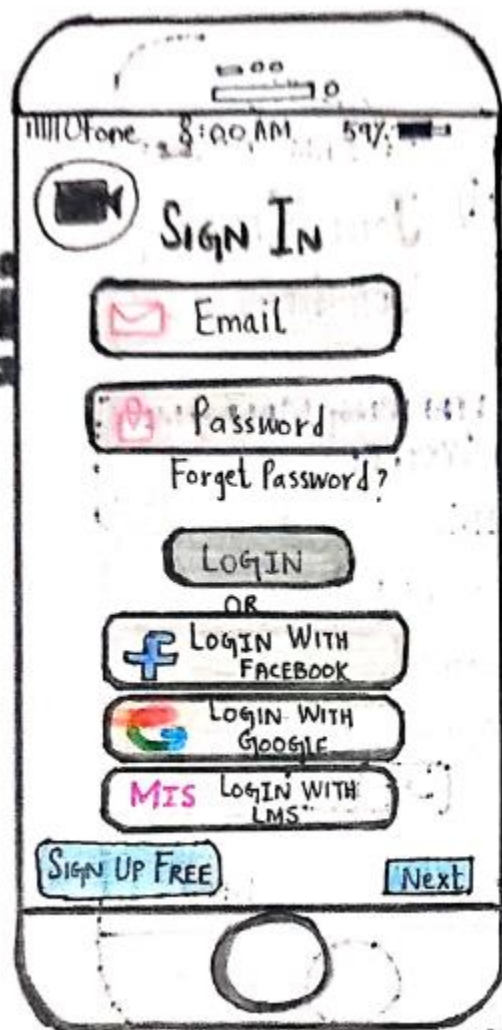
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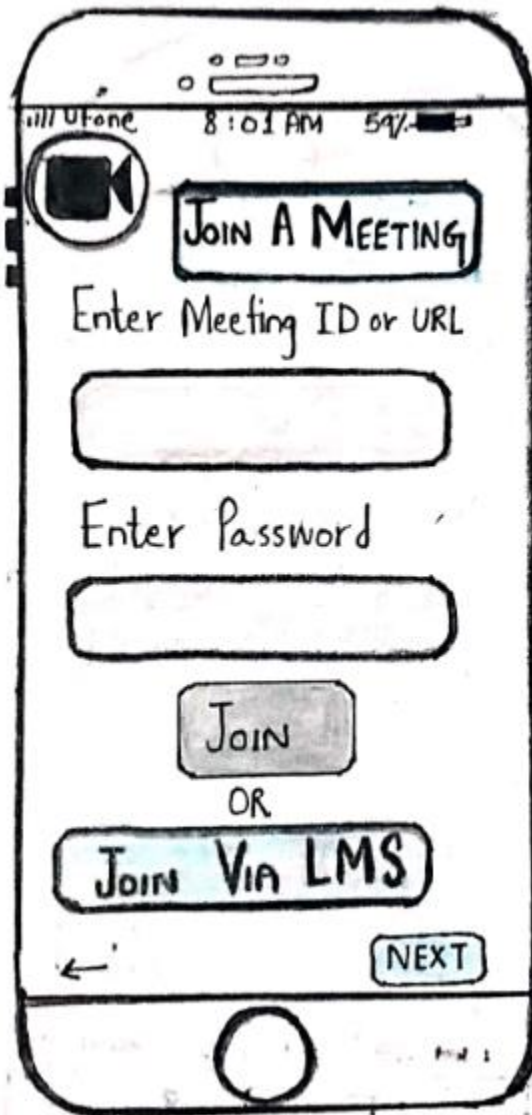


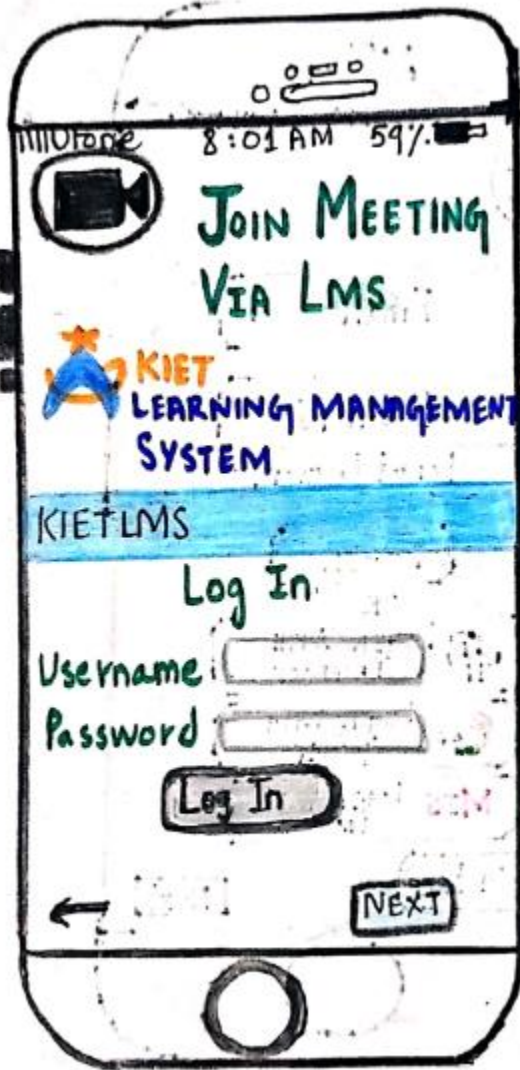
Student leave the meeting when lecture ends

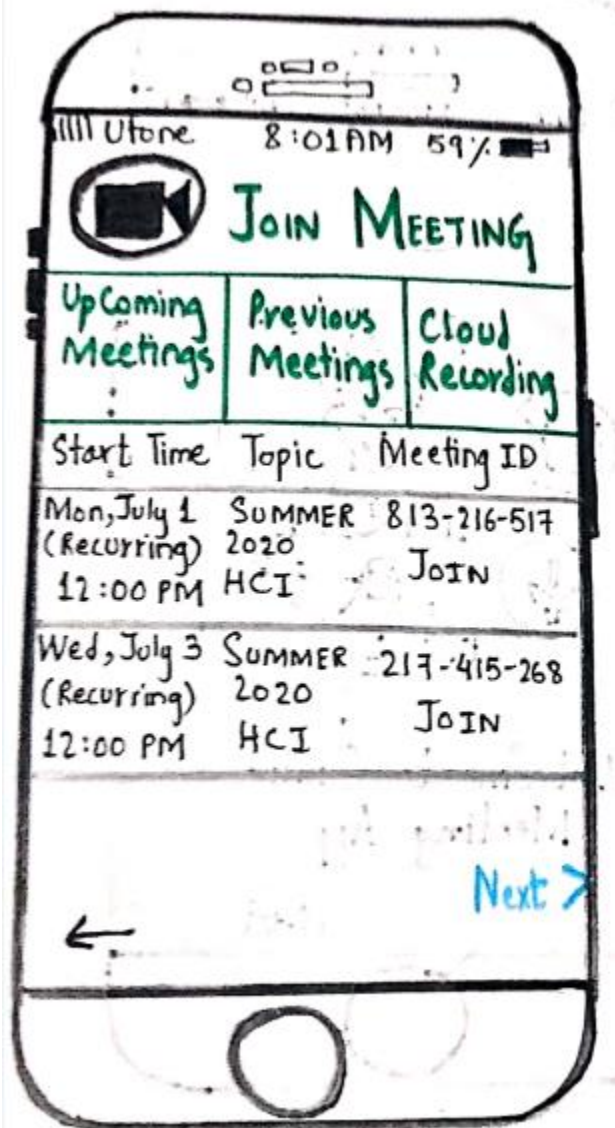
PROTOTYPE





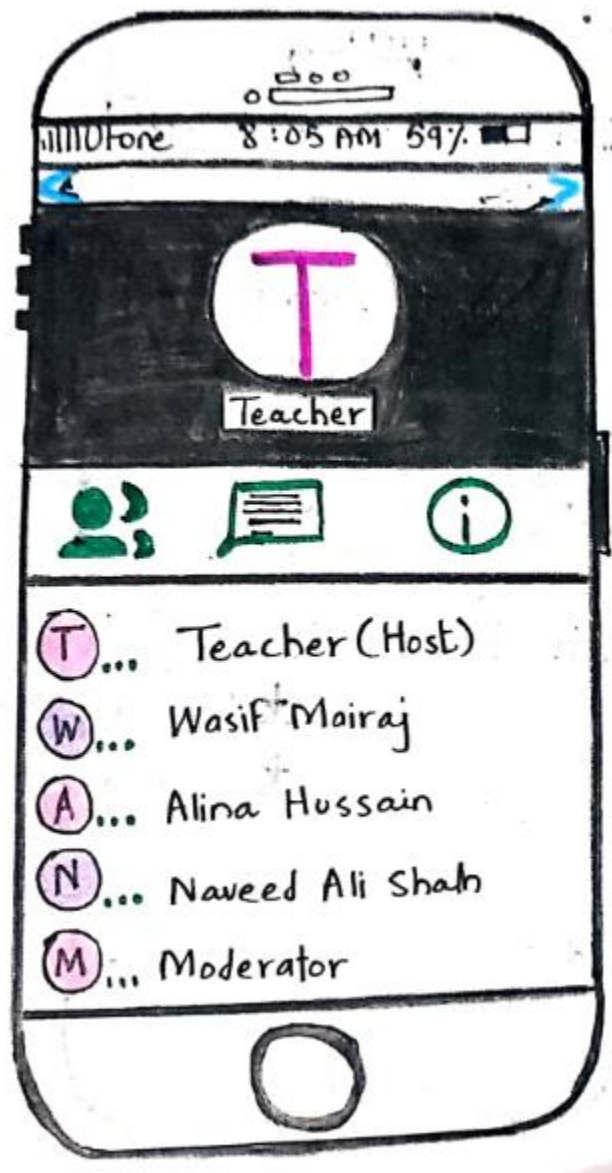


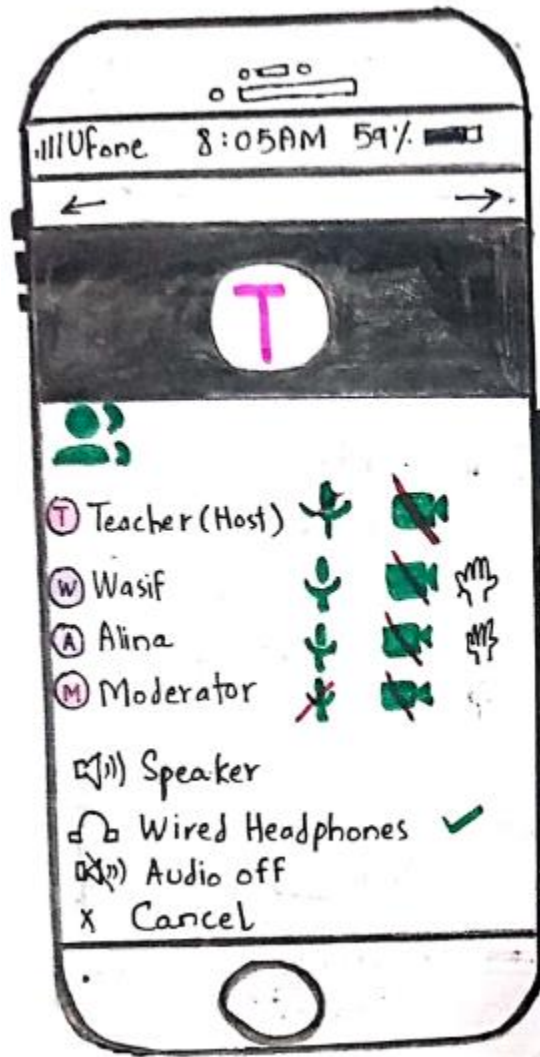


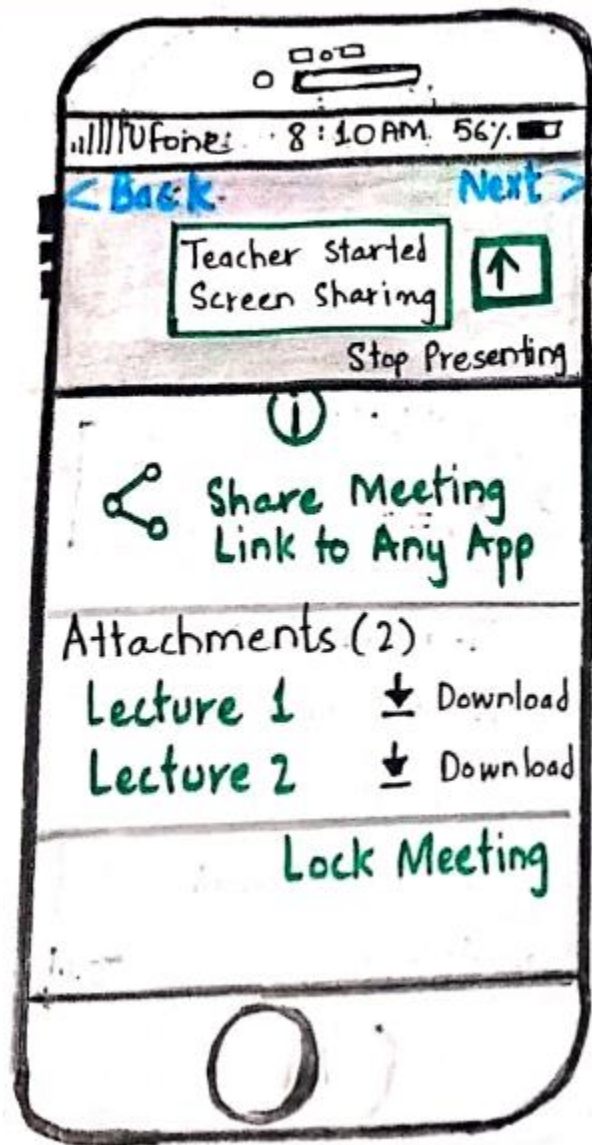




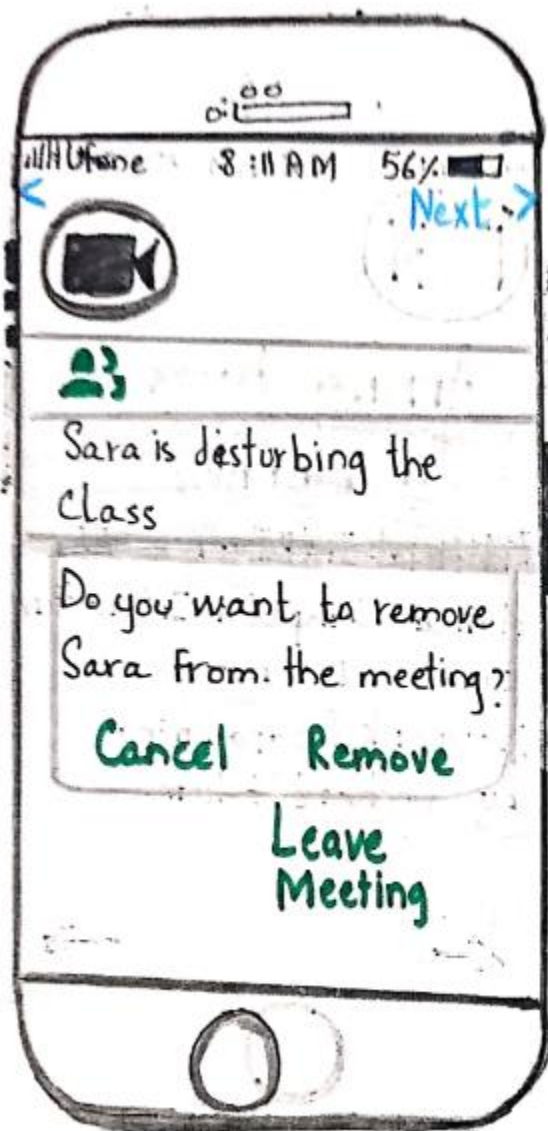




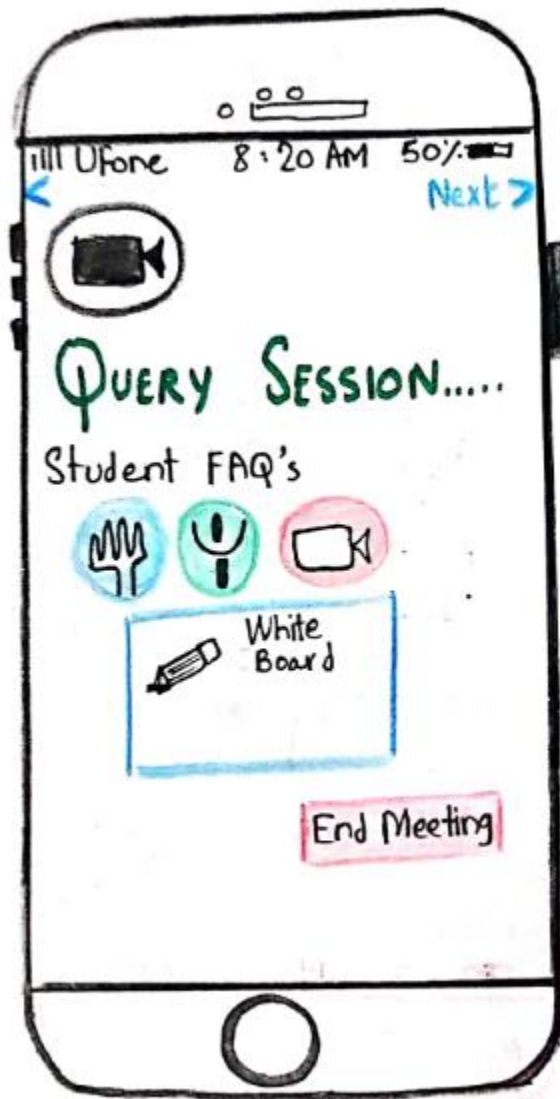


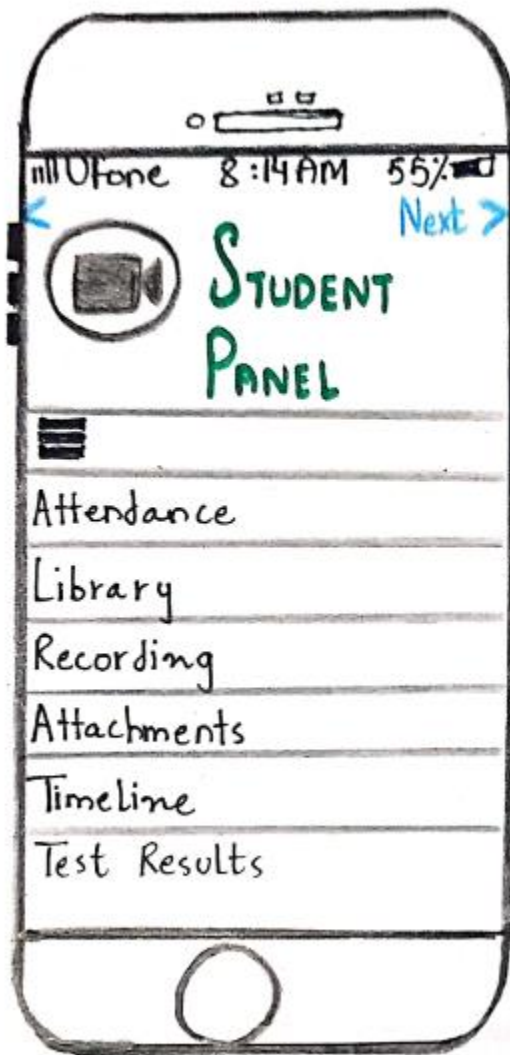


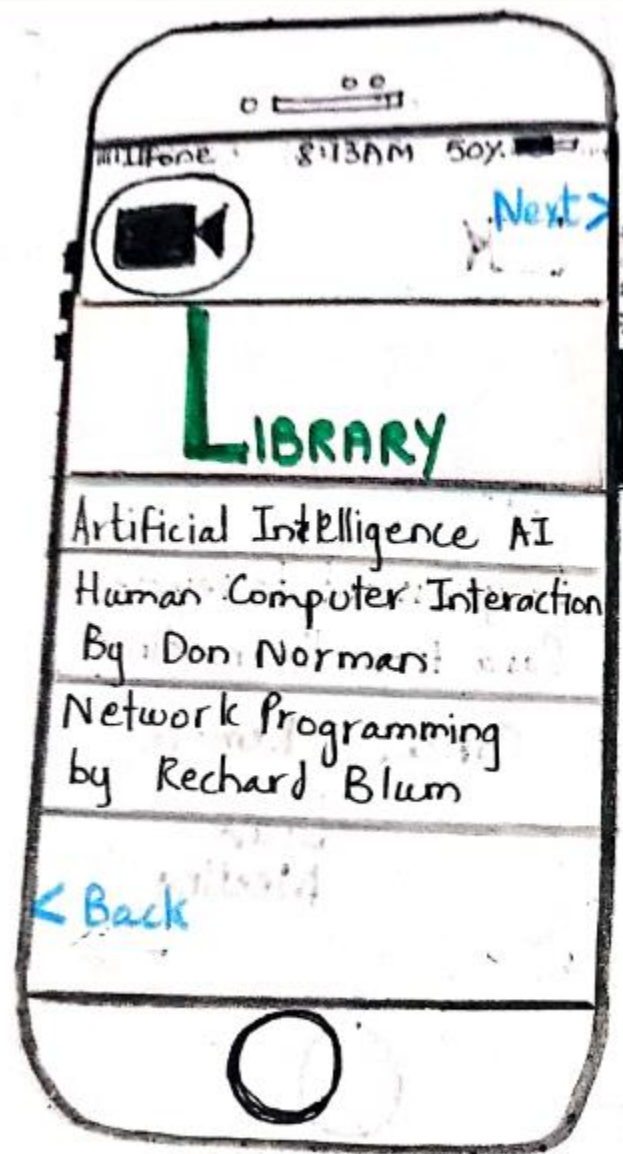


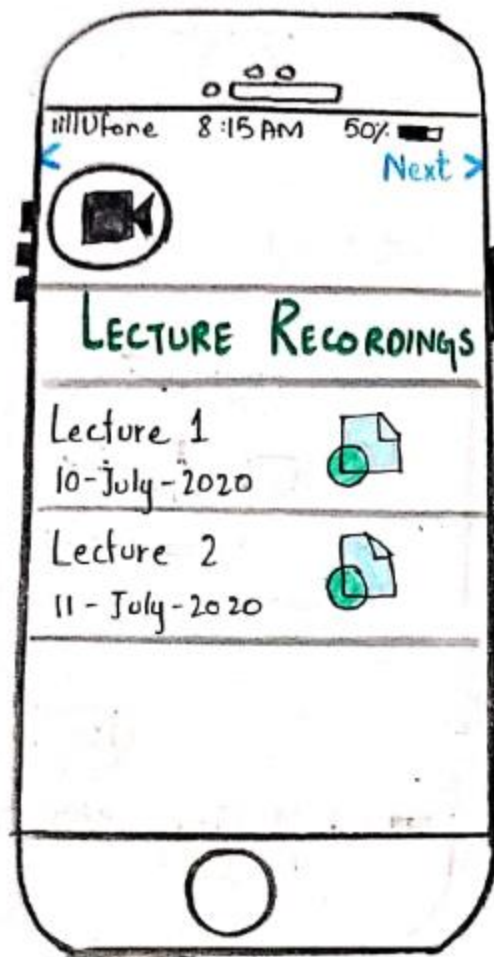


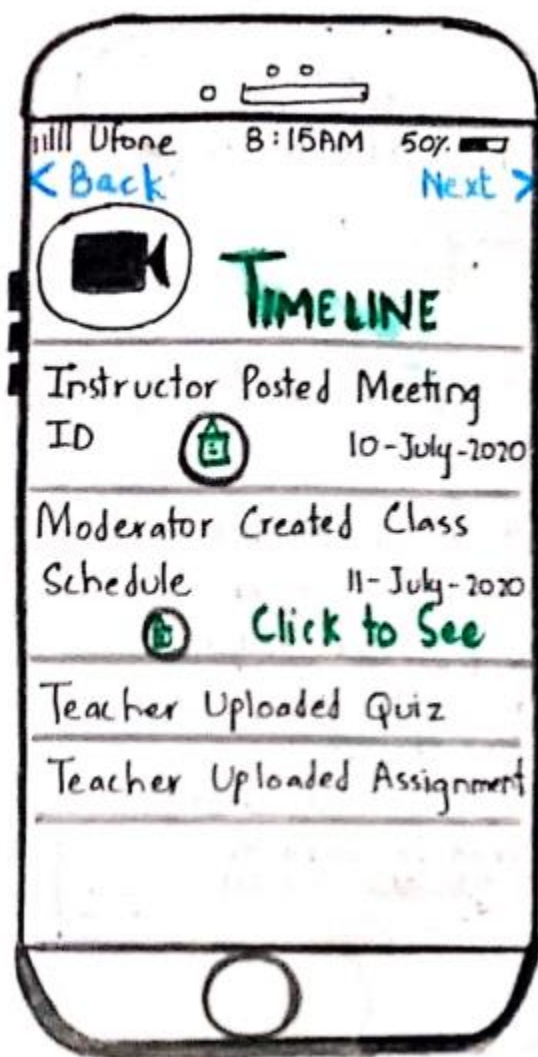


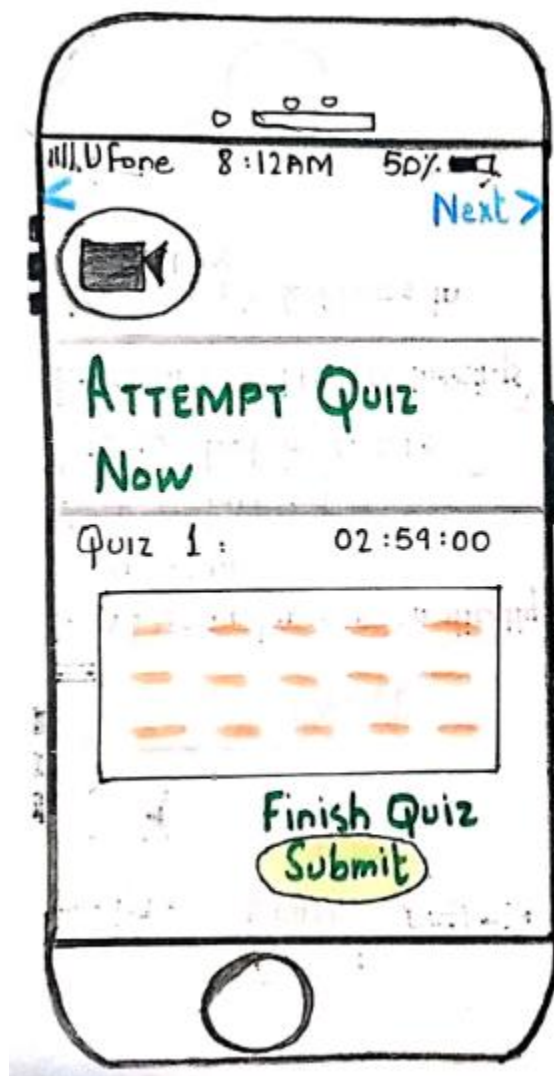


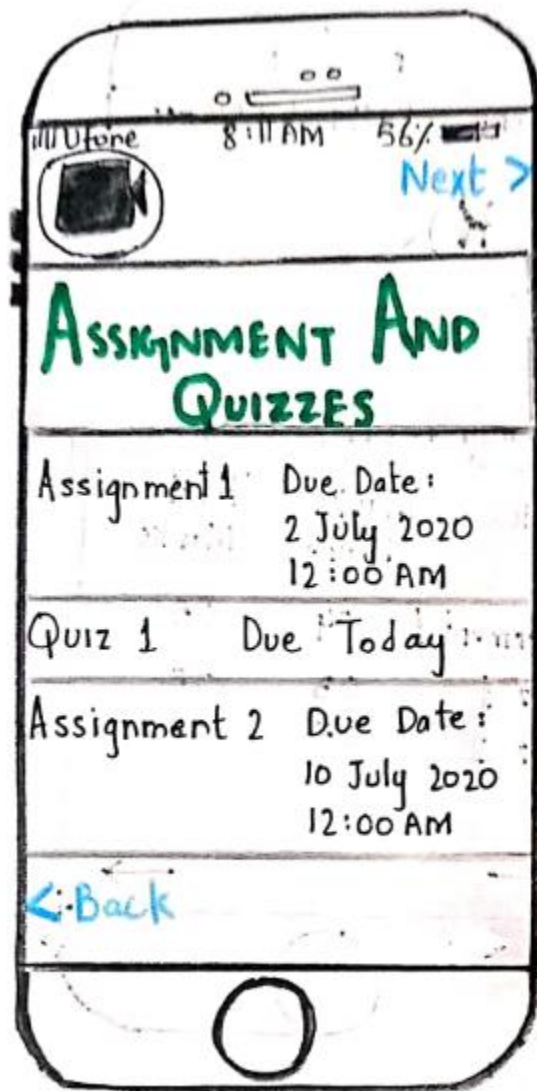


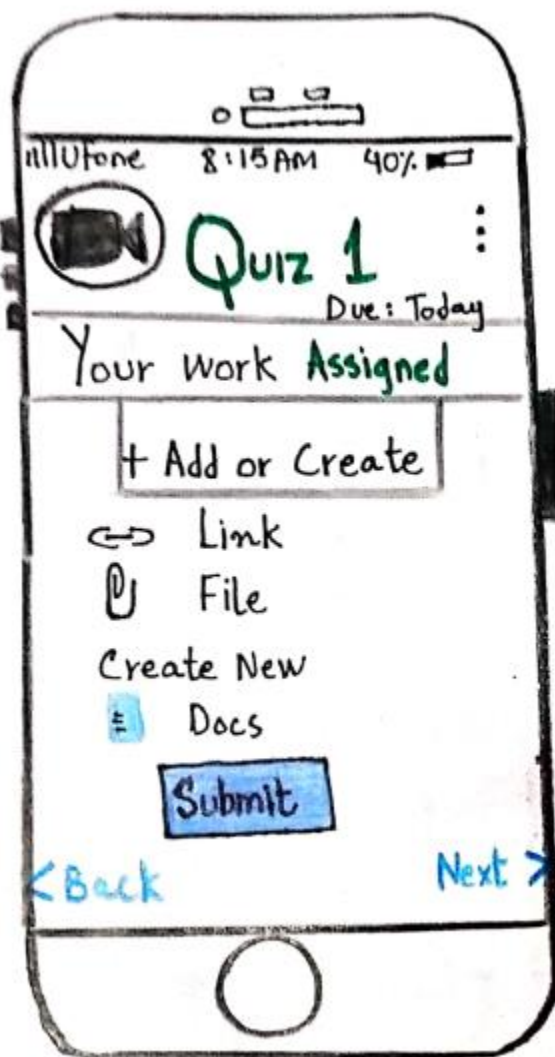


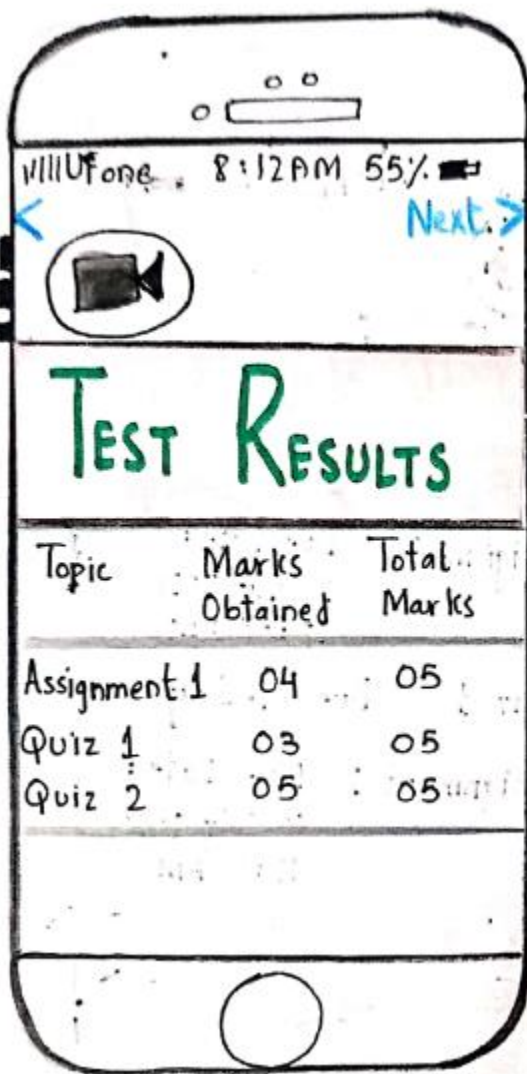


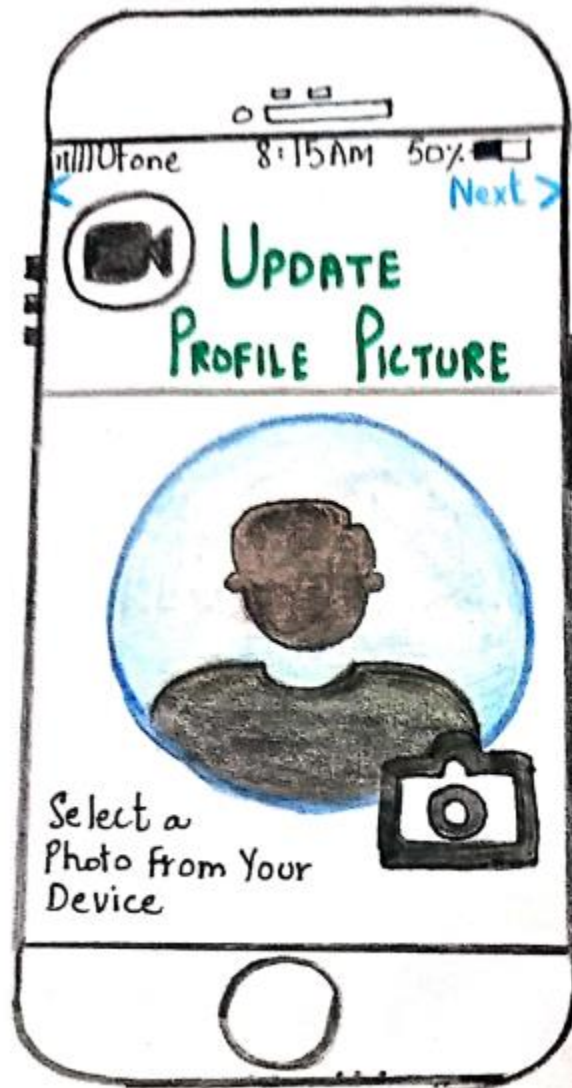


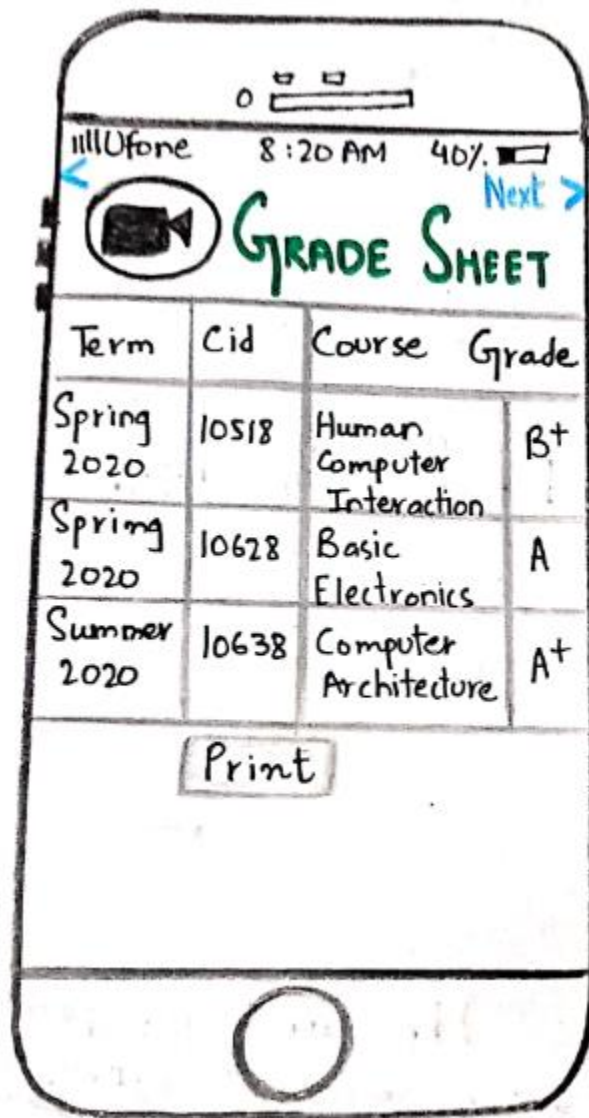


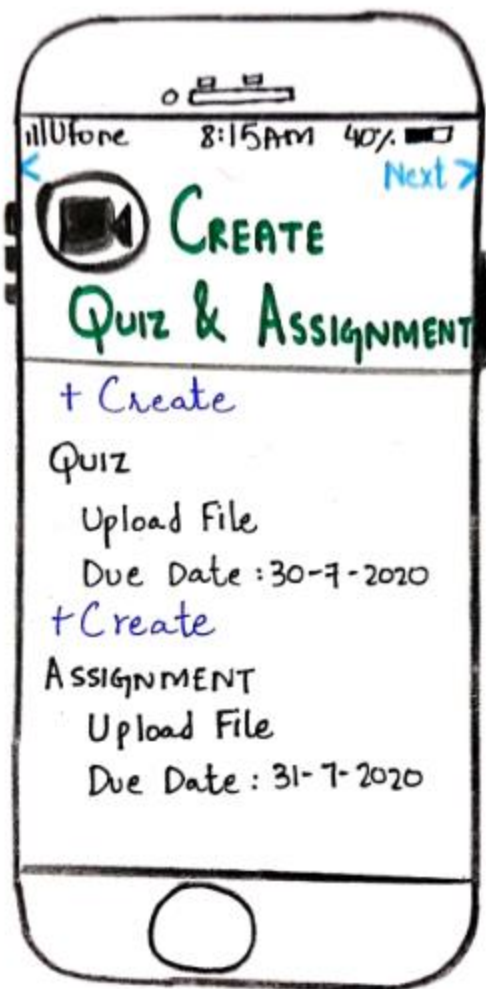


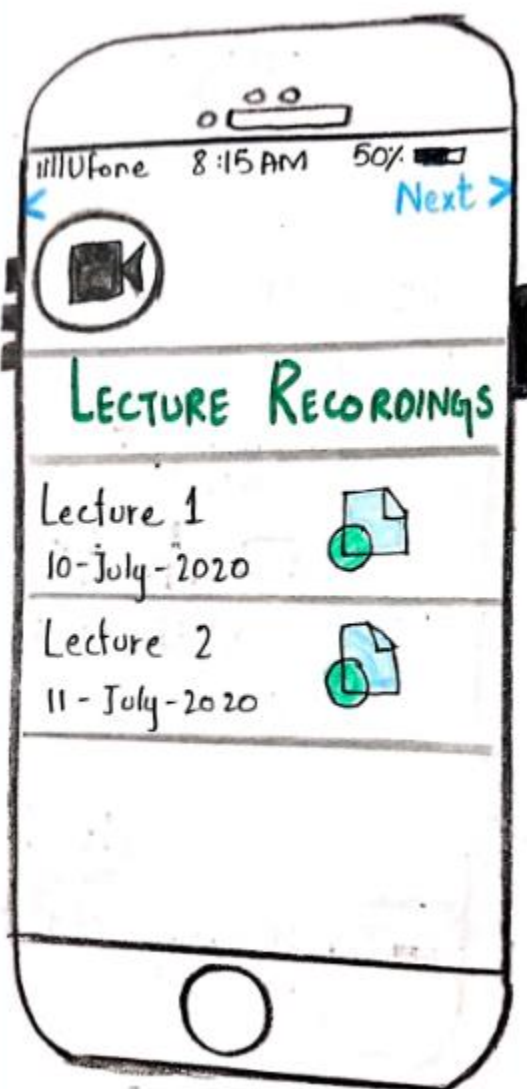


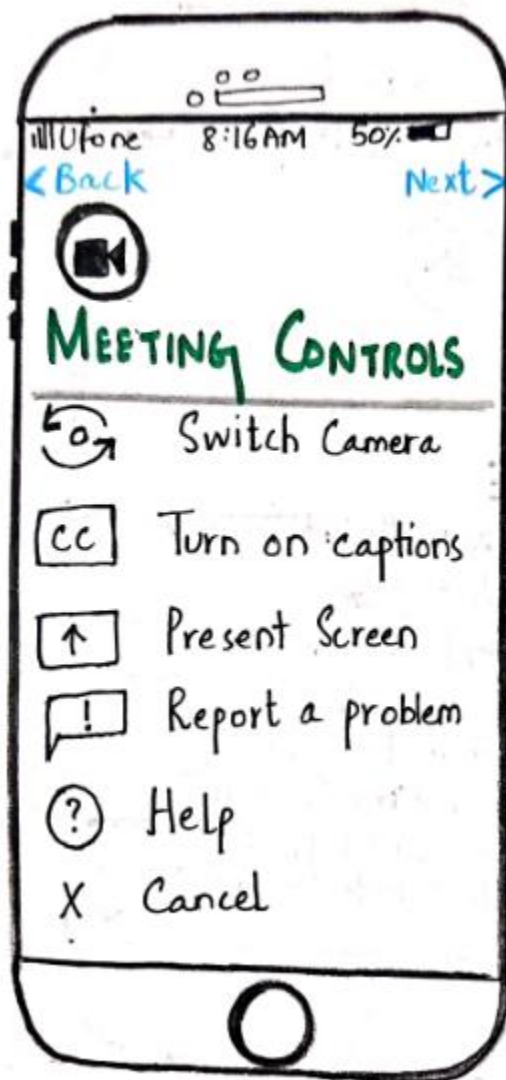








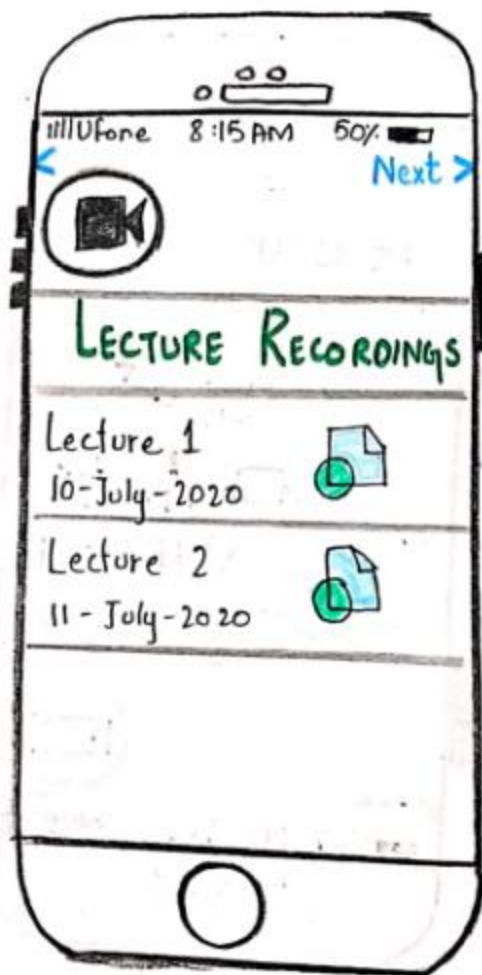


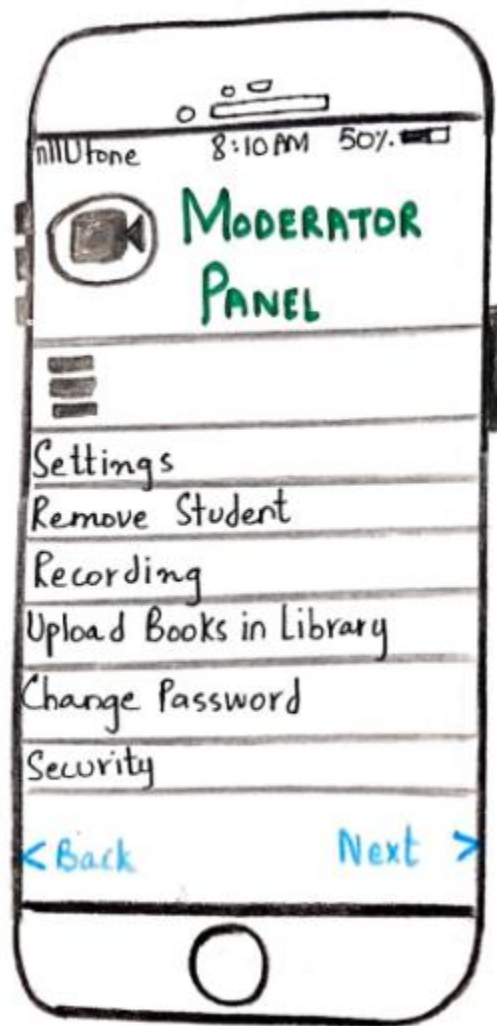






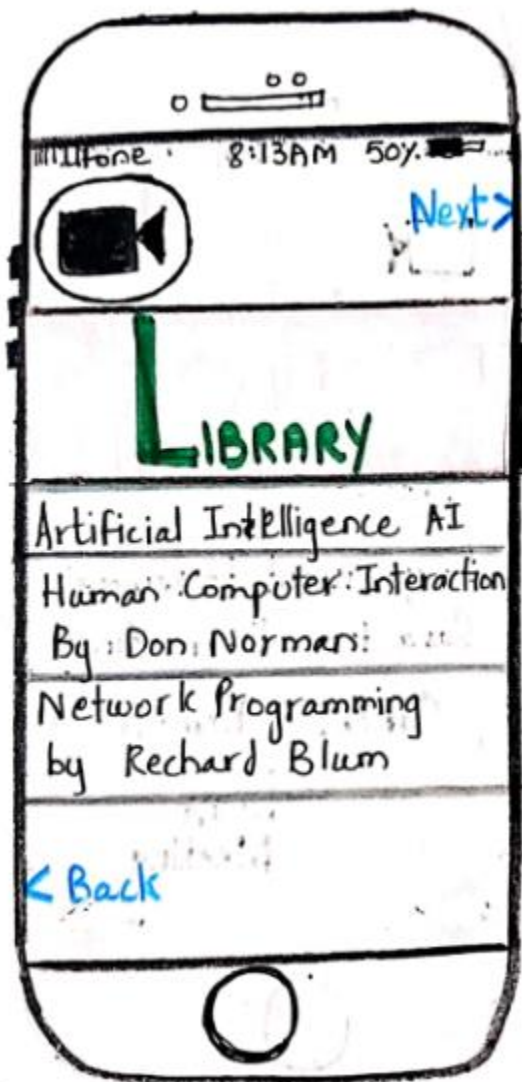




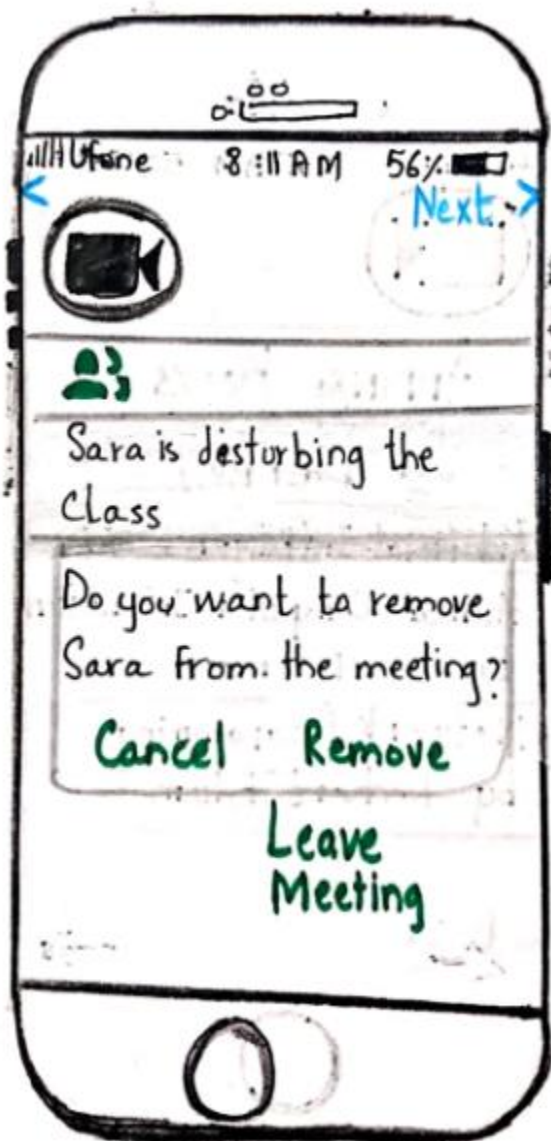


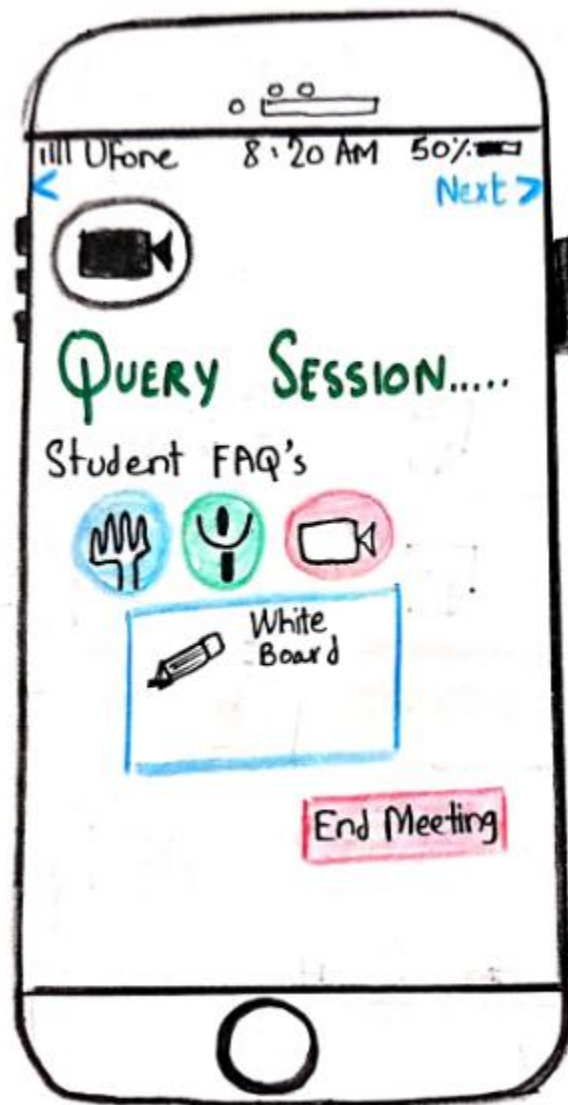












PARSONAS

Name: Naveed Ali Shah

Age:23

Gender: Male

Qualification: Currently doing BS(CS)

Hobbies: Solving puzzle ,playing chess, Reading articles, Travelling

Interest: Involved in local gaming zones, classes and groups, organizing events in the community, preparing food for events, Attending events, shows and exhibitions, cooking.

Problem: With this app for online meeting, you can choose to transfer files, share screen, join from your mobile device, and even change presenters. One click scheduling integrates with Calendar to send and keep track of your invitations.

Question (MCQ's):

❑ **What is the best cross-platform video conferencing software for online lecturing with extra features which other applications are not having?**

- ☐ Online meeting application(Ours) (Yes)
- ☐ Zoom
- ☐ WebEx

❑ **Based on your experience, is zoom or Online meeting application(ours) better for conducting lectures and students response?**

- ☐ Online meeting application(yours) (yes)
- ☐ Zoom
- ☐ WebEx

❑ **How often do you use this application?**

- ☐ Several times a week (YES)
- ☐ Every day
- ☐ 1-3 times a month
- ☐ Less than once a month

☑ What is the primary reason you would use this online meeting application?

- Notifies about lazy students who are not responding (YES)
- Screen sharing
- Link sharing
- See recorded lectures

☑ How much time you have used and experienced about this application?

- 5 hours or less (YES)
- 45 minutes
- 11-20 minutes

SUGGESTIONS:

- 1) Set a schedule for the beginning of the meeting, and set a time for the end of the meeting.
- 2) one-paragraph statement of purpose for the meeting. Start with this sentence: "We are having this meeting to achieve this specific goal."
- 3) Show how much content is covered in percentage format.

USER 1 FEEDBACK:

It was very good to use this online meeting application and I am having fun for the time-being learning from this application as how to attend the meeting from his mobile app and how to control the new and advance options

(2)

Name: Kamran Ahmed

Age:35

Gender: Male

Qualification: Graduated

Hobbies: Playing a musical instrument, painting, networking event, board games, gardening, making review of new meeting applications.

Interest: videos games, creative writing, swimming, designing and making review of an applications, football

Problem: It also allows for quick access to the meetings as the people invited just have to click the invitation link, or simply enter their names and meeting number, and that's it. It provides quick, easy, and hassle-free access to meetings. This meeting app also guarantees superb HD videos and high quality audio. You can also share content and screens, make private and group chat, schedule online meetings in advance, record online meetings and more.

Question (MCQ's):

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SUGGESTIONS:

1)Organize the agenda so that the top 20% of items are the first items to be discussed. This way, if you run out of time, you will have covered the items that represent 80% of the value of the meeting before the time runs out.

2) ensure that everyone is clear about his agreed-upon responsibilities and deadlines.

3)Show how much content is covered in percentage format.

USER 2 FEEDBACK:

Using this mobile application to attend the lectures by this application is doing wonders for me. I can now access all and different types of option while using my mobile only, which I am doing classroom

Name: Sohaib Ali

Age:25

Gender: Male

Qualification: Currently doing BS(CS)

Hobbies: playing chess, Reading articles, Travelling

Interest: Involved in local gaming zones, classes and groups, organizing events in the community, preparing food for events, Attending events, shows and exhibitions, cooking.

Problem: With this app for online meeting, you can choose to transfer files, share screen, join from your mobile device, and even change presenters. One click scheduling integrates with Calendar to send and keep track of your invitations.

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USER 1 FEEDBACK:

It was very good to use this online meeting application and I am having fun for the time-being learning from this application as how to attend the meeting from his mobile app and how to control the new and advance options

User 1 (Student):

Demographic:

Age: 18-26

Gender: Male/Female

Income: 25000

Family Situation: Independent Teenager

Education: Intermediate to Graduation

Occupation: Student + Employed

Psychographic:

Values: Ethical

Interests: Working, gaming and studying

Lifestyle: student/employee/worker life style

Behavioral:

Purchasing Habits: Yes

User Status: Student

Brand Interactions: A little

Geographic:

Zip Code: Any

City: Karachi

Country: Pakistan

Location: Any

User 2 (Moderator):

Demographic:

Age: 30 above

Gender: Male/Female

Income: 50000 or more

Family Situation: Married / Divorced / Single

Education: Montessori to Graduation

Occupation: Employee

Psychographic:

Values: Ethical

Interests: Working, Reading

Lifestyle: Average

Behavioral:

Purchasing Habits: Yes

User Status: Moderator

Brand Interactions: Yes

Geographic:

Zip Code: Any

City: Karachi

Country: Pakistan

Location: Any

COGNITIVE WALKTHROUGH

The mobile version of the app on iPhone, iPad, and Android offers a simplified version of the online meeting application platform, and the main tabs are found at the bottom: Meet & Chat, Meetings, Contacts, and Settings. (The setup is slightly different due to limited space.)

1. "Meet & Chat" combines the desktop "Home" and "Chat" tabs. The main options are found at the top: New Meeting, Join, Schedule, and Share Screen. Below, you'll see recent call and chat history, along with any outstanding Contact Requests. Tap to view the chat with any contact or to accept a request. You can also tap the star icon in the top-left corner to view your favorites or the pencil icon in the top-right corner to draft a new message.
2. "Meetings" shows a lineup of upcoming events. You can also start a call, send an invitation, or edit a current event at the top of the page. Tap to begin any one of these options and follow the prompts provided. Your "Personal Meeting ID" is your unique code to start an individual meeting. Tap on an upcoming meeting to view its details or delete it entirely. Tap on a meeting and you'll also find the option to add invitees and send invitations to these contacts via email or text message.
3. "Contacts" looks extremely similar to the desktop version and lists your starred favorites, as well as any others in your company directory. Search for contacts at the top of the page. Tap the plus symbol in the top-right corner to open a pop-up menu to add a contact, create a new channel, or join a public one. You can also toggle between contacts and channels at the top.
4. Contacts are individual people while channels are groups of these contacts.
5. Finally access "Settings" to make any changes to your account. Your online meeting app settings are organized by Meetings, Contacts, Chat, and General. You can also add Siri Shortcuts. To make changes to your profile, tap your name at the top of the screen, where you can change your profile photo, display name, or update your password. This is also where you can sign out of the online meeting app.

FINAL UI SCREENS



