Online Learning

— Define Phase

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OUTLINE

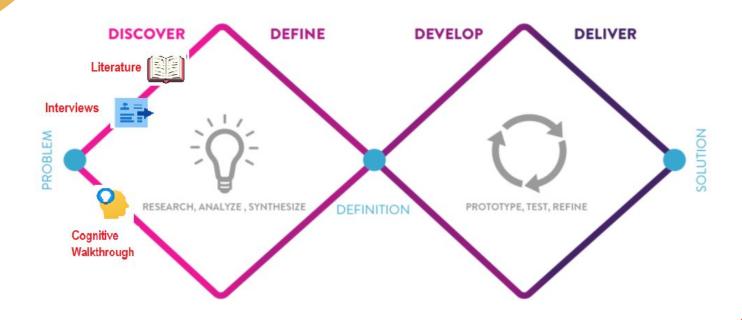
Discovery Phase
Summary

O2 User Goals

Design Challenges and Requirements

Persona & Scenario

Discovery Phase Summary



Background Research Methodologies

1. Interviews

- Interviews with informants (teachers)
- 7 Interviewees varies in age 30-80 years.
- Teaching Experience (2-31 years)
- Academics (College and University)

2. Secondary sources of Data

- Online groups on Facebook (Teachers teaching during Covid-19, Teachers using zoom and distance learning resources)
- Discussion forums on blended learning
- Scholarly articles, journals and academic publications on Lockdown and Online Teaching.

3. Media walkthrough

- Engaging participants directly with an app's interface.
- Observation and documentation in a step-by-step manner

User Goals

Teachers' Issues and Challenges

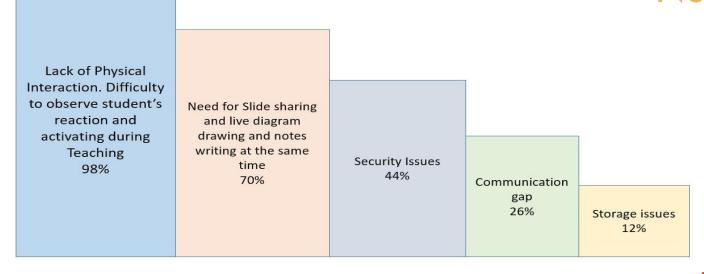
- Security Issues. (ZoomBombing)
- 2. No multiple cameras or multiple screen share.
- 3. Communication Gap.
- 4. Screen layout could be better suited for interactions.
- 5. Bandwidth requirement issues & connectivity issues.
- 6. Missing functions such as polls and whiteboards/drawing.
- 7. Chats are hard to handle and can't be recorded.
- 8. Can't monitor all breakout rooms at once.

User Goals for online teaching apps —Teachers' feedback

- Prefer face-to-face interactions with students.
- 2. Reassurance and feedback from students in real-time.
- 3. Link sharing for article, videos, journals, etc.
- 4. Multiple cameras and shared screens.
- 5. Whiteboard functions and Overlay.
- 6. Stable internet connection and audio/video quality.
- 7. Adaptation to exercises, lab work, animations and simulations

Design Challenges & Requirements

Problem Analysis and User Need



Design Challenges

- User interviews might not cover enough user groups.
- It's challenging to add new features to an interface while still keeping it simple and concise.
- Target user group might be too large and still needs to be narrowed down.

Design Requirements

Improve the existing Service or Function experience rather than introducing any new function.

- 1. Increase Interaction between teachers and students
- 2. Security Vulnerabilities
- 3. Writing on slides as overlay
- 4. Storage as Real-time recording and delivering
- 5. Increase students' Feedback (Chat and Contacts Management)
- 6. Calendar Routine

Personas and Scenarios

Primary Persona

1. Age Range - 37 to 80 years

2. Teaching Experience- 12 to 33 years

3. Student Type- Undergraduates and Graduates

4. Specific- Teachers who use Board and PPT both in class teaching



Secondary Persona

1. Age Range - 27 to 35 years

2. Teaching Experience- 2 to 15 years

3. Student Type- Graduate and Post-Graduate Research Students

4. Specific- Teachers who mainly use PPT for classroom teaching



Next Plan

1. BrainStorming and Analysis

Prototyping (interactive web experience with partial functioning implementations)

THANKS

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