Qualitative Study Overview



Course: CSE499 (Senior Design Project)

Section: 18

Semester: Summer 2021

Faculty: Shaikh Shawon Arefin Shimon (Sas3)

Date: 25/06/21

Project Group-01

1. Name: Ferdous Zeaul Islam, ID: 1731136

2. <u>Name</u>: Rifat Islam, <u>ID</u>: 1731536

3. Name: Ashfaq Jamil, ID: 1731818

Project Initial Features

AR-Schoolbook, an android app targeted for Bangla medium class-7 students. Initial features include,

- Each figure and experiment included in the book will be used as a marker.
 Pointing the camera at these markers will start the AR view/interaction.
- 2. AR experiences will be of two types,
 - a. Biology figures- A sizable 3D model of the figure will appear on screen and the user can touch different parts from the figure to highlight.
 - b. Chemistry/Physics experiments- 3D models of the equipment will appear and by pressing a proceed/back button steps of the experiment will play out in reality.
- A user(Teacher) can share his/her live AR interactions with other multiple users
 nearby without the internet and also remote users through the internet. In this
 case only the user sharing the screen can interact with the AR setting.
- 4. The user who is sharing can grant/revoke other users to control the AR setting (e.g- point out different parts in case of biology figures).

Interview Type

- 1. One to one interview- face to face or online.
- 2. Online survey- by releasing google forms.

Interview Group

- Tution Teachers- We could not connect with any professional school/college teachers, instead we decided to choose University students with experience in tutiony and/or teaching in various coaching centers.
- 2. High school students- Currently attending school from classes 6 to 10.

Interview Questions for Students

1. What is your name? Which school do you go to? Which class do you study in? What are your hobbies? [Icebreaking]

(তোমার নাম কি? কোন স্কুল-এ পড? কোন ক্লামে? তোমার hobbies কি?)

2. Do you own a smartphone? What model is it?

(তুমি কি smartphone ঢালাও? কোন model?)

3. Do you play games on smartphones? Which ones?

(Phone-এ games খেল? কোনটা বেশি খেল?)

4. Do you do online classes on a smartphone?

(Online class কর phone দিয়ে?)

5. Do you use smartphones for any study-related purpose? If yes, what for? If not, any reason for avoiding it?

(পডাশুনা related কিছু করা হ্ম phone দিমে? কি কর / পডাশুনার সম্ম phone ব্যবহার avoid কর?)

6. Do you like your school science books? Can you explain why/why not?

(স্কুলের বিজ্ঞান বই ভাল্লাগে? কি ভাল্লাগে / কি ভাল লাগেনা?)

7. Do you have a tution teacher? Who do you like more to learn from school classes or tution?

(তোমার tuition teacher আছে? কার কাছে পড়তে বেশি ভাল লাগে- স্কুল ক্লাসে নাকি tutiony-তে?)

8. Does your school use any electronic device for teaching? What is that device? (ভোমার স্কুলে কোন আলাদা electronic device use করে ক্লাসে? কি device use করে?)

Interview Questions for Tution Teachers

1. What is your name? How old are you? What do you do? [Icebreaking]

(আপনার নাম কি? আপনার ব্যুস কত? আপনি কোখাও job করেন?)

2. What smartphone do you use?

(কোন smartphone use করেন?)

3. How long have you been tutoring? What subjects do you teach?

কেতদিন ধরে আপনি tutiony পডাচ্ছেন?)

4. What is your prefered teaching material? Textbooks, guides, notes or some other medium? Can you explain why you prefer them?

(আপনি teaching material হিসেবে কি use করে থাকেন? Textbook, guidebooks or অন্য কিছু? কেন এটা prefer করেন, একটু explain করা যাবে?)

5. Do you face any challenges teaching science or science related subjects? Can you explain?

(Science subject টা or অন্য science related subjects পড়াতে গিয়ে আপনি কি ধরনের challanges/problems face করেন? একটু explain করা যাবে?)

6. Have you ever used smartphones to teach your students? If yes, what for? If not, any reasons for avoiding it?

(Smartphone ব্যাবহার করে student দের পড়িয়েছেন কখনো? If yes, কি পড়াভে গিয়ে ব্যবাহার করেছিলেন smartphone? If not, কোন specific কারণ আছে পড়ানোর জন্য smartphone ব্যাবহার avoid করার?)

7. Have you ever used any technology/electronic device for teaching? If yes, what was it and what did you use it for?

(কখনো কোন ধরনের electronic device or technology use করেছেন পড়ানোর জন্য? If yes, কি device/technology use করেছিলেন, specific কি পড়াতে use করেছিলেন?)

Online Survey Questions for Students

a. Class 1 to 5b. Class 6 to 10

1. Which class do you study in? (choose one)

	c. Above class 10	
2. Do you know how to use smartphones? (choose one)		e one)
	a. Yes	
	b. No	
3.	What do you do with smartphones? (can choose multiple)	
	a. Play Games	
	b. Use Facebook/Instagram/Whatsapp	
	c. Watch videos on Youtube	
	d. Online class	
	e. During studying	
	f. Others	
4.	. Do you have a tuition teacher? (choose one)	
	a. Yes	
	b. No	
5. Do figures given in science books help you understand better? (choose		erstand better? (choose one)
	a. Yes	
	b. No	
6. Which study material helps you the most? (can choose multiple)		choose multiple)
	a. Text books	
	b. Guide books	
	c. Notes from tutors	
	d. Others (provide description)	
7.	7. Do you know what Augmented Reality is? (choo	ose one)
	a. Yes	
	b. No	

Online Survey Questions for Tution Teachers

- 1. How old are you? (choose one)
 - a. Below 18 years old
 - b. 18 20 years old
 - c. 20 22 years old
 - d. Above 22 years old
- 2. How long have you been a tuition teacher? (choose one)
 - a. Few weeks
 - b. Few months
 - c. Few years
- 3. What subject have you taught? (can choose multiple)
 - a. Science related subjects (Physics, Chemistry, Biology etc)
 - b. Mathematics
 - c. Others (Social Science, Bangla, English etc)
- 4. What are your preferred teaching materials? (can choose multiple)
 - a. Text books
 - b. Guide books
 - c. Notes from other sources
 - d. Others (provide description)
- 5. Do you face any challenges teaching with those materials? Can you please explain? (provide description)
- 6. Do the figures given in science books help students understand better? (choose one)
 - a. Yes, most of the figures help a lot (Strongly Agree)
 - b. The figures help a bit (Agree)
 - c. Never taught anything using the figures (Neutral)
 - d. The figure don't help very much (Disagree)
 - e. No, most of the figures are not helpful at all (Strongly Disagree)
- 7. Have you ever used smartphones for teaching students? (choose one)
 - a. Yes
 - b. No

- 8. How did you use a smartphone in teaching? Ignore if you haven't ever used smartphones for teaching. (provide description)
- 9. Have you ever used Augmented Reality technologies for teaching? (choose one)
 - a. Yes
 - b. No
- 10. What specific Augmented Reality technology did you use and what was your experience? Ignore this question if you haven't used Augmented Reality for teaching. (provide description)

List of Tuition Teachers selected for Interview

- 1. Nazim Kamol (nkhassan.33@gmail.com)
- 2. Nazif Ali (<u>nazif.ali334@gmail.com</u>)
- 3. Faiaz Hossain Chowdhuri (faiazhossainchowdhury@gmail.com)
- 4. Mehreen Afree (tushtiahmed@gmail.com)
- 5. Rafia Sarwar (<u>rafiasarwar68@gmail.com</u>)
- 6. Arpita Pandey (arpitapanday98@gmail.com)
- 7. Tasneem Muneera Prottyasha (<u>tasneemmuneeraprottyasha@gmail.com</u>)