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Research Questions:

- What do people expect from smart-watches?
- What do people miss about smart-watches compared to analog ones?
- Is smart-watch more burdensome to a person?
- What are the key challenges with smart-watches?
- Will smart-watch replace the analog ones?

Interview structure: semi-structured. As we thought about the interview about smart-watches, we had some basic questions about usability, and challenges came to mind immediately. Also, semi-structured interviews are one of the most useful ways to get users experiences and perceptions. Following were the parts of the structure, mainly:

- Intro, overview and consent
- Simple questions to start (Grand-tour questions)
- Main interview (Specific questions and follow-ups)
- Closing questions
- Thank the participant.

Population: Any person familiar with smart-watch.

Ideal Sample: It should contain: those who wear analog watches and those who wear smart ones.

Sampling: 2 students from UG recruited as per convenience

Participant Demographics:

- **Age Group:** 18-24 years both
- **Gender:** Both girls.
- **Education:** 3rd year CSE, 4th year MTH student.

Duration and Location of Interview: ~25 min each, Library, IITK.

Limitations:

- **Small Sample Size:** Interviewing only two participants, both of whom were girls, might not provide a representative sample of the larger population. The opinions and experiences of these two individuals may not reflect perspectives that exist among smartwatch users.
- **Lack of Diversity:** As both participants were from similar demographic backgrounds, the research lacked diversity. Different groups of people may have varied experiences and perspectives on smartwatches.
- **Generalisation Issues:** The findings from such a small sample may not be generalizable to a larger population. The experiences and opinions of these two participants may not reflect the views of other smartwatch users, especially those with different demographics or preferences.

Possible improvements:

- **Increasing sample size** and including participants from **diversified demographics**
- Should consider the technological familiarity of participants in demographics too.

Initial list of questions:

- Can you tell us a bit about yourself and your daily routine?
- Do you like wearing watches?
- What is the primary reason for wearing watch?
- Which kind of watch do you wear or like to wear (smart or analog) ?

If Smart Watch or Both:

- What motivated you to get a smartwatch?
- Do you prefer smart watches over analogue ones? and why?
- Are there specific features or apps on your smartwatch that you find most useful?
- What are the challenges you face while wearing a watch? (e.g. battery life, charging, connectivity, notifications, distractions, etc.)
- Do you use your smartwatch for fitness or health tracking? If yes, which features do you find most beneficial?
- Have you noticed (or do you think) any positive impacts on your health or fitness routines due to the smartwatch?
- Have you noticed any general trend or perception of smartwatches among your peers? What do you think about it?
- Do you think smart watches can help with learning? If yes, how?
- Are there specific improvements or new features you would like to see in future smartwatch models?
- Do you think smartwatches will continue to play a significant role in your life in the coming years?
- How concerned are you about the security and privacy of your data on the smartwatch?
- What measures do you take to ensure the security of your smartwatch?
- In your opinion, how has owning and using a smartwatch impacted your daily life?

If Analogue Watch or Both:

- Do you wish to buy a smartwatch in future?
 - Do you think analog watch is better than smart one? and why?
 - Do you feel that your analog watch meets all your needs?
 - If you were to add some features to analog watch, what would you like to add?
 - Have you ever considered trying a smartwatch, even if just out of curiosity?
 - How important are the style and aesthetics of the watch to you?
 - Do you believe that analog watches offer a unique sense of fashion?
 - Do you know about fitness and health tracker related features in smartwatches? If yes, what do you think about it?
 - Have you noticed any general trend or perception of smartwatches among your peers? What do you think about it?
 - Can you think of a scenario where you might consider switching to a smartwatch in the future?
 - Do you think smart watches can help with learning? If yes, how?
 - Do you think that in some years, smartwatches will be very common and will replace analog watches? and why?
 - In your opinion, how does owning and using a smartwatch impact one's life?
-
- Would you recommend a smartwatch to your parents and grandparents, and why?
 - Would you recommend a smartwatch to your peers, and why?
 - Would you recommend a smartwatch to your next generation, currently in schools, and why?
 - Do you want to ask anything or give us any feedback?

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Interview #1 (210429)

Routine → class + assign + entertainment

→ wear watch occasionally → exams
→ fests, dress-match

→ Analog watch used only

In future smart watch → yes for fitness

liked features → phone-connect, spotify, fitness

→ smart watch > Analog

→ Style → Analog better

→ Analog → no problem

→ fitness apps & benefit → # footsteps
→ physical maintenance

→ Charging isn't issue

→ mental burden? → No, analytics would help in precaution.

→ ~~Not~~ a Medium-end choice

→ fashion-sense & use.

→ trend → peer pressure
→ makes-habit

→ learning → can't help in it

→ Distractions ✓

→ Analog watch purpose ✓

Use → Fitness, calls, spotify

→ Smart-watch has replaced largely analog watch
→ very few with analog watch seen

→ People prefer buying smart watch if buying new.

→ only antique likers ~~use~~ prefer analog

Interview # 1 (210429)

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→ Agree, most people are only using for ~~the~~ every time
 ↳ not using features
 ↳ Also using can peer pressure

→ seen friend using fitness app
 ↳ don't know about health improve

→ ~~To do list~~

Requirements → ① To-do list

② Schedule (calendar-type)

→ Security → also concern

→ Privacy → yes, problem

 ↳ company should ensure it better

→ society impact → If people use for fitness
 o/w No

→ ~~Not~~

Recommendation → ① Not recommend to upper gen. as hard to learn
 unless they are willing too

② I will first use & see if helpful in productivity
 into → then yes for my gen.

③ next-gen. → same.

Interview (#2) (210429)

Routine \rightarrow classes, clubs, —

→ like watches → wear smart watch → more features ✓

- features → connected to phone
 - reminders
 - track steps
 - Panic alert (heart rate)

→ cycling → so bought to back

→ likes avg. (mid-range) watches

→ Problems → discharges then no use

→ Notifications distracts in class

→ when it is not with me, think of it had been there.

→ No problem with connectivity

→ Mainly health records, sometimes there is a some kind of app where ~~they~~^{friends} can compete in terms of health records

→ No use ~~specifically~~ ^{specifically} for learning purpose.

→ No specific feature which helps in learning

- Security & Privacy → problem is there even health data
 - same time beneficial in GPS tracking in emergency.

→ Recommendation: 1) Not easy to learn for previous gen
2) Yes to learn

2.) Yes to peers

3) No, for next gen, not much tech tools should be given to children,

→ Improvements: 1) Improve battery life

② Analog watches are more stylish

③ comfortable

Interview #2 (210429)

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- It will be part of my life for at least 2yrs, future can't say.
- companies should focus on more features than style.
- Analog watches won't be replaced totally as it is used as jewellery kind of thing too.
- Overall, helping in habit and maintaining routine.
- ~~total~~

Interview - I

Library 11am

Daily Routine

- Class
- Assignment
- Exercise
- Sleep

Do you ~~wear~~ wear watch?

→ Occasionally Analogue watch

→ During exams, test --

→ Also when she goes to party. etc.

→ Fitness track → No

Do you wear smart watch → No

~~Would~~ would you like to buy watch?

→ Yes, for tracking the fitness

→ Connect my phone

→ Access Mobile apps

→ Attend calls

→ Spotify

Which is better

→ Smartwatch for fitness better

→ Analogue watch for style.

About watch style

style matters

→ Analogue watch Better

Problem faced while using watch

→ No

→ charging not an issue

→ regular watch can help me to reduce mental burden as I will be ~~not~~ able to track my fitness.

→ Peer pressure is the reason for buying watch for most of the people.

→ I will be habituated with the errors shown by my ~~too~~ smart watch.

distraction, Extra burden to silent, It may distract me in class and exams.

Do you agree lots of people just use smart watch for sex thing?

→ yes, I agree

→ they don't use feature

→ They just wear or buy in peer pressure

Add features

→ schedule (of classes quiz)

→ To-do list.

Threats

→ Privacy issue, if someone hacks they will get health data.

Impact of on/society → If people use for fitness than only.

Would you like to suggest SW to older generation!

- No, hard to teach them to use
- our generation can use



2nd Interview

Bhavya

Daily Routine

- 8am/se class till Afternoon
- Cycling daily.

She wears watch, and she wears smart watch.

Features she like

- Reminders
- Track Steps
- Stress (Alert)

She wears a mid to low range watch.

Issues of problems:-

- changing issue (frequent change required)
- Manage distraction in class (sometimes)
- habituated with it, if it is not with me ~~I am~~ she misses it.

Does it really work?

- Targets. (She tries to make target and record of tracking)
- Informal competition.
- Habit

Mood for education? → No not really.

Threats

Security concern (Health data) is very problem

Recommendation

1) Grand parents → No, learning issues, charging time.
 hesitation ~~for~~ by parents

She, already asked ~~to~~ her mother for use but
 she ~~wasn't to~~ ~~didn't~~ ~~her~~ was not comfortable.

2) Our generation → yes, good to go!!

3) Child → ~~I~~ She is ~~hesitant~~ hesitant ~~about~~ to share
~~with~~ digital watch to child.

Improvement

→ ↑ Battery life, less stylish watch analogue ~~too~~ are
 more stylish.

→ Straps are of low quality.
 (sweatband issue)

Impact on society → Not, as much

do you think analogue watch will be replaced by SW?

+ → No, it is a jewellery for some of them.

→ also a lot of people use watch just as fashion.

Overall, it impacted. ~~the~~ me to for habit formation and
 goal tracking.