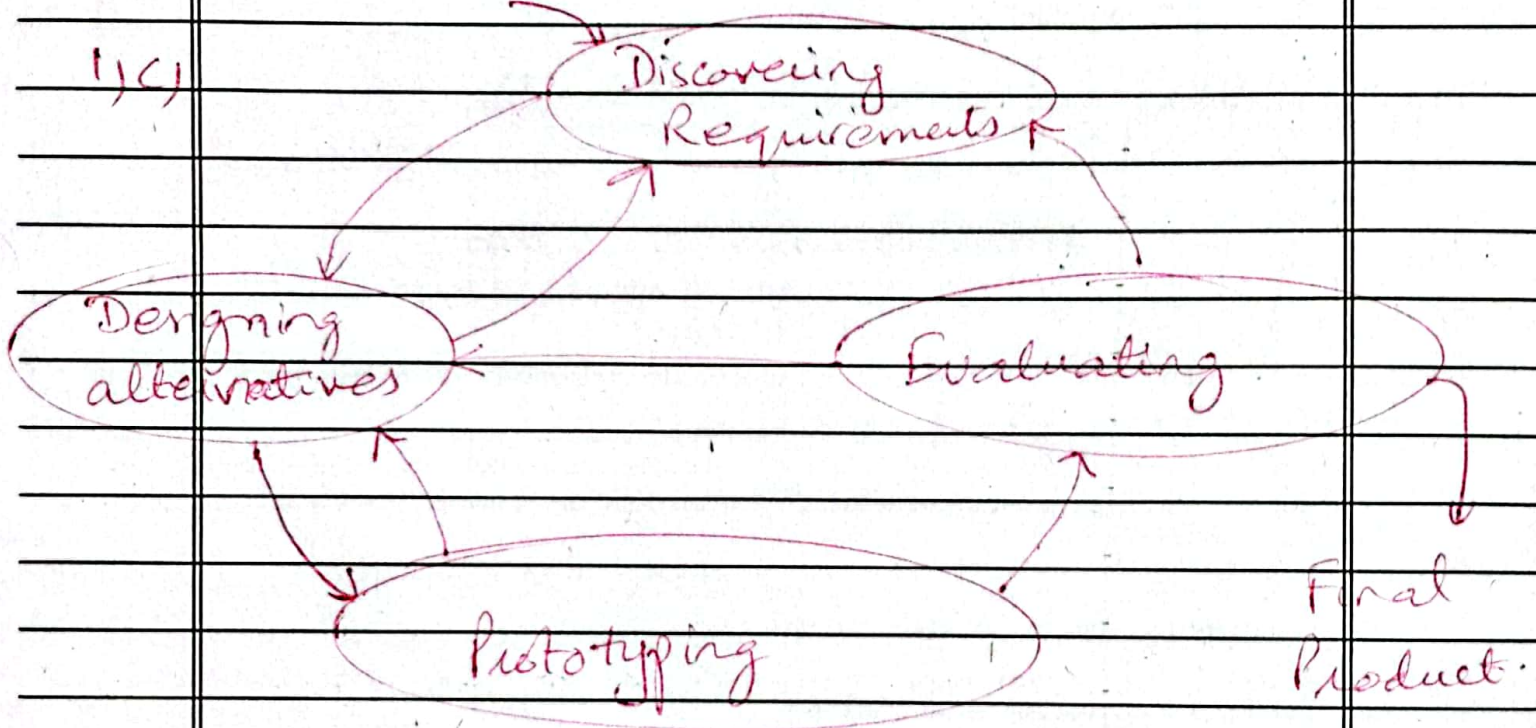1) a) students, teachers, parents

1) b) school administration, NGO, villagers, EduConnect team (Designers and developers)

1) c)

```
                    ⟋⎯⎯⎯⎯⎯⎯⎯⎯⟍
                   (  Discovering   )
                   (  Requirements  )
                    ⟍⎯⎯⎯⎯⎯⎯⎯⎯⟋
        ⟋⎯⎯⎯⎯⎯⟍                    ⟋⎯⎯⎯⎯⎯⟍
       ( Designing )               ( Evaluating )          Final
       ( alternatives)              ⟍⎯⎯⎯⎯⎯⟋           Product.
        ⟍⎯⎯⎯⎯⎯⟋
                   ⟋⎯⎯⎯⎯⎯⎯⎯⟍
                  (   Prototyping   )
                   ⟍⎯⎯⎯⎯⎯⎯⎯⟋
```

1) d) This main character has attitudes, motivations, goals and pain points, etc. ۱ Goals define what the persona wants or needs to fulfil. (Motivation why persona is taking action)
  ۱ Age.
  ۱ Education.
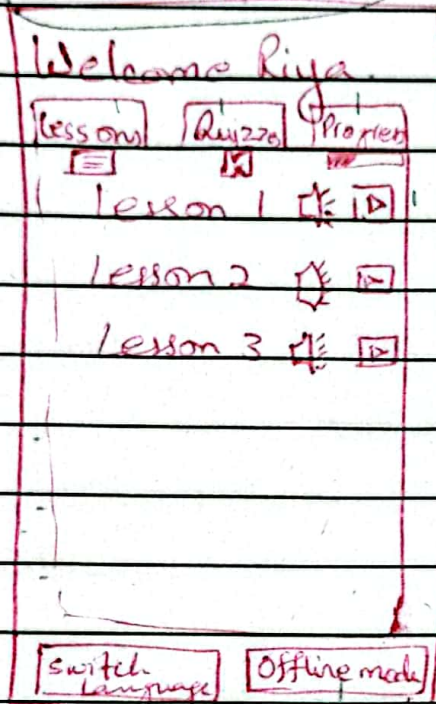 ۱ Comfort with technology.
  ۱ Gadgets she owns/has access to.

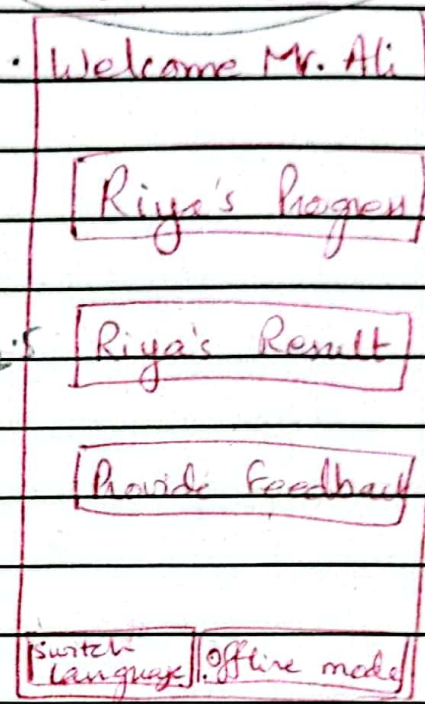**1)e)** Interviews + observations

(For students)   (For barents)

1)f)

Welcome Riya.

| Lesson | Quizzo | Progress |

Lesson 1 ⚡ ▶

Lesson 2 ⚡ ▶

6   Lesson 3 ⚡ ▶

| Switch Language | Offline mode |

• Welcome Mr. Ali

| Riya's Progress |

2.5 | Riya's Result |

| Provide Feedback |

| Switch Language | Offline mode |

Welcome Ms. Rabia.

| Lessons | Quizzo | Results |

(For teacher)   Lesson1 ⊖ ⚡ ▶

2.5   Lesson2 ⊖ ⚡ ▶
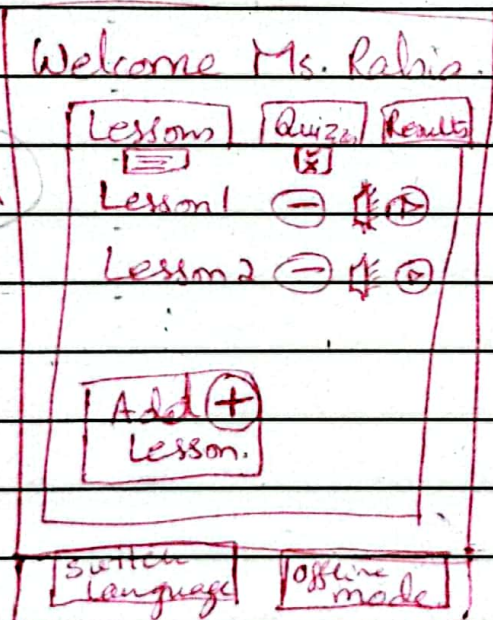
| Add ⊕ Lesson. |

| Switch Language | Offline mode |

* mark for sketches as part of prototyping

1)g) "Audio and video lessons in regional languages" focused on accessibility.

1) h)   Empathize → Define → Ideate → Prototype → Test

1) i)   Empathize : Second paragraph, second sentence.
Define   :   "   "   , "noting"/"found out" sentence.
Ideate   : Third paragraph, "brainstorming " "
Prototype : "The team created wireframes —
Test : "The team returned to the village " ---

1) j)   Desirability   : Yes
Feasibility   : Yes.
Viability   : Yes & No

can be justified by   Can be justified by
saying no profit in   saying that not-for-
monetary terms.   profit in monetary
                      terms but added
                      value which was
                      to be sustained
                      by NGOs.

Q.2.   3 formulas of Fitts' law All were accepted.

Method 1: $MT = a + b\left(\log_2\left(\frac{2A}{\omega}\right)\right)$ $D^{or} A = 12 - 1.5$
                                          $= 13.5$
       $= 1 + 1(3.17) = 4.17 \, ms.$ $\omega^{or} s = 3.$

Method 2, $MT = a + b \left(\log_2 \left(\left(\frac{2A}{w} \right) + c \right) \right)$

$$= 1 + 1 (3.32) = 4.32 \text{ ms.}$$

OR

Method 3. $MT = k \log_2 \left(\frac{D}{S} + 1.0 \right)$

$$= 2.46 \text{ ms.}$$

Rubric: Formula　———　3 marks
　　　　　Calculate D　———　1 mark
　　　　　"　　　S　———　1　"
　　　　　Answer　　———　2 marks
　　　　　Unit　　———　1 mark

Q.4) • Attention　　　　　　　　(See slides)
　　　• Perception　　　　　　　for design
　　　• Memory　　　　　　　　implications.
　　　• Learning
　　　• Reading, Speaking, and Listening.
　　　• Problem- solving, planning, reasoning and
　　　　decision- making.

Q/Part No.	Problem Description	Heuristic	Severity Level	Suggestion
Q.3)	There is			
①	no indication of where we currently are in the system.	Visibility of system status	3	The icon of the current page should be highlighted or made bold to show where we are
②	Not all icons make intuitive sense (on top)	Match b/w the system and the real world	4	Replace those icons from real world examples, or label them
③	Inconsistent gap between icons on top	Consistency and standards.	1	Make the gap consistent.
④	2 Icons too closely placed on Top. Can cause slip.	Error prevention	3	Increase the gap
⑤	Page seems cluttered with too much info.	Aesthetic and minimalist design	3	Remove irrelevant info (e.g. gmail, etc.) from the home page

CamScanner

National University
of Computer & Emerging Sciences

Serial No. *181432*

SESSIONAL EXAM ANSWER BOOK

Course Code & Title: HCI (Solution) Final Exam

Roll No: _____   Section: _____   Student's Signature: _____   Date: 1-1-25

Serial No. of continuation sheet if attached: _____   Total No. of Extra Sheets Used: _____   Invigilator's Signature: _____

Q./Part No.	Q-1	Q-2	Q-3	Q-4	Q-5	Q-6	Q-7	Q-8	Q-9	Q-10	Total Marks
Total Marks											
Obtained Marks											
CLO NO.											Total Marks Obtained

_____   _____
Examiner/Course Teacher   Date