## PART 1: Demographic & Context (5 questions – 1 min)

| **#** | **Question** | **Options** |
| --- | --- | --- |
| 1 | What is your current level of study? | High School / Undergraduate / Postgraduate / Professional / Other |
| 2 | How many hours do you study per week on average? | <5 / 5–10 / 11–20 / 21–30 / 30+ |
| 3 | Which tools do you currently use for studying? (Select all) | Notion / Quizlet / Anki / ChatGPT / Google Docs / Pen & Paper / Other: \_\_\_ |
| 4 | How often do you use AI tools for studying? | Never / Rarely / Sometimes / Often / Always |
| 5 | Do you take handwritten or voice notes? | Yes, handwritten / Yes, voice / Both / No |

## PART 2: Cognitive Walkthrough Tasks (6 tasks – 10–15 min)

*Participants complete these in order while observed. Use for Think-Aloud recording.*

| **Task #** | **Task Description** | **Success Criteria** |
| --- | --- | --- |
| T1 | Upload a **handwritten note** (image) and generate a **summary**. | Summary appears in <30s, key points retained |
| T2 | From the same note, generate a **5-question quiz** (MCQ). | Quiz loads, questions relevant |
| T3 | Complete the quiz and view **knowledge gap report**. | Gap chart shown, weak topics highlighted |
| T4 | Start a **Pomodoro session** with focus mode (25 min). | Timer runs, focus stats tracked |
| T5 | Use the **AI Chat Tutor** to ask: *“Explain X concept from my notes”*. | Relevant, contextual answer |
| T6 | View **achievements dashboard** after tasks. | Streaks, badges, progress visible |

**Think-Aloud Prompt**: *“Please speak your thoughts aloud as you complete each task. Say what you expect, what confuses you, and what feels easy.”*

## **PART 3: Quantitative Questionnaire (15 questions – 5 min)**

## **Section A: System Usability Scale (SUS) – Standard (10 items)**

| **#** | **Statement** | **1 = Strongly Disagree → 5 = Strongly Agree** |
| --- | --- | --- |
| 1 | I think I would use AI Study Buddy frequently. | 1 2 3 4 5 |
| 2 | I found the system unnecessarily complex. | 1 2 3 4 5 |
| 3 | I thought the system was easy to use. | 1 2 3 4 5 |
| 4 | I would need technical support to use this system. | 1 2 3 4 5 |
| 5 | The functions were well integrated. | 1 2 3 4 5 |
| 6 | There was too much inconsistency in this system. | 1 2 3 4 5 |
| 7 | Most people would learn to use this very quickly. | 1 2 3 4 5 |
| 8 | I found the system very awkward to use. | 1 2 3 4 5 |
| 9 | I felt very confident using the system. | 1 2 3 4 5 |
| 10 | I needed to learn a lot of things before I could get going. | 1 2 3 4 5 |

**SUS Score Goal**: ≥80 = “Excellent” (per Bangor et al., 2009)

**Section B: Custom Feature-Specific Items (5 items – Likert 1–5)**

| **#** | **Statement** | **1 = Strongly Disagree → 5 = Strongly Agree** |
| --- | --- | --- |
| 11 | The **summary** accurately captured the main ideas from my notes. | 1 2 3 4 5 |
| 12 | The **quizzes** helped me identify what I don’t know (knowledge gaps). | 1 2 3 4 5 |
| 13 | The **Pomodoro timer with focus tracking** improved my concentration. | 1 2 3 4 5 |
| 14 | The **AI Chat Tutor** gave clear, relevant explanations based on my notes. | 1 2 3 4 5 |
| 15 | The **gamification (badges, streaks)** motivates me to study consistently. | 1 2 3 4 5 |