**Appendix B. Study Data:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Participant** | **Hours Used** | **Test Score Before /100** | **Test Score After /100** | **Test Score Change /100** | **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** |
| 1 | 45 | 53 | 82 | 29 | 4 | 3 | 5 | 4 | Interactive quiz game | Occasional crashes during lessons |
| 2 | 18 | 57 | 65 | 8 | 2 | 4 | 3 | 3 | AI conversations | Complicated to get around |
| 3 | 38 | 56 | 83 | 27 | 3 | 5 | 4 | 4 | Personalized learning paths | Needs more language options |
| 4 | 15 | 48 | 56 | 8 | 1 | 3 | 2 | 2 | Daily progress tracker | User interface is not intuitive |
| 5 | 50 | 58 | 85 | 27 | 5 | 4 | 5 | 5 | Gamification elements | Too few examples in foreign language |
| 6 | 25 | 54 | 62 | 8 | 3 | 3 | 2 | 3 | Quiz game and feedback | Slow to load new lessons |
| 7 | 30 | 49 | 59 | 10 | 4 | 2 | 3 | 3 | Multiple language support | Speech recognition needs improvement |
| 8 | 35 | 60 | 70 | 10 | 4 | 3 | 4 | 4 | AI-driven practice conversations | Lacks advanced content for proficient users |
| 9 | 28 | 46 | 60 | 14 | 3 | 2 | 4 | 3 | Variety of exercises | Repetitive tasks |
| 10 | 10 | 70 | 68 | -2 | 2 | 1 | 1 | 1 | AI pronunciation feedback | Inaccurate translations sometimes |
| 11 | 40 | 51 | 69 | 18 | 4 | 3 | 4 | 4 | Progress tracking and learning path | Not enough cultural context |
| 12 | 55 | 61 | 83 | 22 | 5 | 5 | 5 | 5 | Custom learning pathway | Nothing, it's great |
| 13 | 52 | 58 | 69 | 11 | 1 | 1 | 0 | 1 | The lessons are really engaging and fun | Not much, a few games were a bit too easy |
| 14 | 22 | 55 | 57 | 2 | 2 | 2 | 3 | 2 | Interactive games and quizzes | Limited number of stories |
| 15 | 26 | 51 | 54 | 3 | 3 | 3 | 2 | 3 | Grammar tips from AI | Some lessons are too long |
| 16 | 32 | 59 | 65 | 6 | 3 | 4 | 5 | 4 | Real-time feedback | Occasional technical glitches |
| 17 | 12 | 49 | 51 | 2 | 1 | 2 | 1 | 1 | Cultural insights | Frequent crashes were annoying |
| 18 | 29 | 65 | 68 | 3 | 4 | 5 | 3 | 4 | Learning games | Some games were too easy |
| 19 | 48 | 60 | 87 | 27 | 5 | 4 | 5 | 5 | Extensive vocabulary lists | More examples needed in some sections |
| 20 | 20 | 47 | 56 | 9 | 2 | 2 | 3 | 2 | Flashcard game | Would have loved more flashcard variety |
| 21 | 5 | 71 | 73 | 2 | 3 | 2 | 2 | 3 | Real-time feedback on pronunciation | A lot of the time AI didn't understand me |