**Supplementary Material**

1) User Profiles

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| **User ID** | **Phonetic Pattern** | **Easy words** | **Difficult Words** |
| User 1 | words starting with a consonant and then followed by the ‘r’ sound | clock, regular, water, made | graph, group, green, grand |
| User 2 | words starting with ‘st’ or ‘fl’ | the, cat, dog, bat | street, florida, straight, stutter |
| User 3 | words with ‘r’ or ‘l’ letter at second place | about, people, day, other | crisp, crumble, alaska, close |
| User 4 | words with ‘ch’ or ‘sc’ anywhere in the word | book, table, cat, shirt | scold, chair, beach, chase |
| User 5 | words starting with B,P,D,M,N, and F | horse, house, group, actor | packet, more, nostalgia, fish |
| User 6 | pattern 1 + pattern 5 | racket, choice, egg, active | crime, provost, post, dragon |
| User 7 | pattern 2 + pattern 4 | packet, more, nostalgia, fish | flood, scandal, stay, choke |
| User 8 | pattern 3 + pattern 5 | cook, table, cat, she | graph, alcohol, ball, market |
| User 9 | pattern 1+ pattern 4+ pattern 5 | rational, recommend, circle, gang | scam, grand, match, cheese |
| User 10 | pattern 2 + pattern 3 + pattern 4 | beauty, pen, dish, govern | match, scam, alcohol, scold |

This table presents seed words for all 10 users. Users 6-10 have more serious stuttering issues as they stutter on multiple patterns. For example, User 6 stutter on all words starting with a consonant and then followed by the ‘r’ sound (pattern 1) as well as words starting with B,P,D,M,N, and F (pattern 5).