**Supplementary Material**

1) Seed Words

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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).