Appendix 1

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| Constructs | Items | Source |
| Entertainment-driven (EN) | I like involving smartphones in my entertainment (EN1) | Dzogbenuku and Kumi, 2018; Koshksaray, et al., 2015 |
| I frequently play games via smartphones (EN2) |
| I frequently listen to music via smartphones (EN3) |
| Using smartphones really give me a lot of fun (EN4) |
| I frequently watch movies or sports via smartphones (EN5) |
| The leisure environment has been influenced by smartphones, and I have enjoyed from the impact (EN6) |
| Sociability-driven (SO) | I frequently use Line to chat via smartphones (SO1) | Dzogbenuku and Kumi, 2018; Koshksaray, et al., 2015 |
| Smartphones greatly enhance interaction among people (SO2) |
| Smartphones greatly expand my friends circle (SO3) |
| I frequently share my opinions via smartphones (SO4) |
| I frequently participate in social events via smartphones (SO5) |
| I frequently share memes via smartphones (SO6) |
| Emotion regulation (ER) | When I am upset or distressed, my mobile phone.. | Hoffner and Lee, 2015;Gross, J. J., & John, O. P. (2004) |
| can help me reframe the way I am thinking about things (ER1) |
| provides ways I can think more positively about my situation (ER2) |
| helps me find more positive ways of looking at things (ER3) |
| allows me to put my problems out of my mind (ER4) |
| helps me avoid thinking about my situation (ER5) |
| can distract me from my problems (ER6) |
| SUD | Missing planned work due to smartphone use (SUD1) | Kwon, et al., 2014 |
| Feeling pain in the wrists or at the back of the neck while using a smartphone (SUD2) |
| Won’t be able to stand not having a smartphone (SUD3) |
| Feeling impatient and fretful when I am not holding my smartphone (SUD4) |
| Having my smartphone in my mind even when I am not using it (SUD5) |
| Constantly checking my smartphone so as not to miss conversations between other people on Twitter or Facebook (SUD6) |
| The people around me tell me that I use my smartphone too much (SUD7) |
| Life satisfaction (LS) | The following areas of life satisfaction were targeted: health (LS1), income(LS2), housing(LS3), family(LS4), and overall life satisfaction (LS5). | Lachmann, et al., 2018 |
| Nomophobia (NO) | Being unable to get the news (e.g., happenings, weather, etc.) on my smartphone would make me nervous. (NO1) | Trisha T. C. Lin, 2020.05,  |
| If I could not use my smartphone, I would be afraid of getting stranded somewhere. (NO2) |
| I would be annoyed if I could not use my smartphone and/or its capabilities when I wanted to do so. (NO3) |
| If I did not have my smartphone with me, I would feel anxious because I could not instantly communicate with my family and/or friends. (NO4) |
| If I did not have my smartphone with me, I would be nervous because I could not know if someone had tried to get a hold of me. (NO5) |
| If I did not have my smartphone with me, I would feel nervous because I would not be able to receive text messages and calls. (NO6) |
| If I did not have my smartphone with me, I would feel weird because I would not know what to do. (NO7) |