NLP Project: Paperwork

**DATA DICTIONARY**

* **Diagram 0**
  + **Process 1**
    - electronic device = [smart phone | tablet | desktop computer | laptop | gaming console | smartwatch | iPod | smart TV]
* **Diagram 2**
  + **Process 2.1**
    - communication medium = [e-mail | sms | chat | forum/newsgroup | social media sites | blog | call | video call | instant messaging | voice messaging]
  + **Process 2.2**
    - initial requirements = [internet connection | cellphone load | Bluetooth | mobile data | call cards]
  + **Process 2.3**
    - communication medium = [e-mail | sms | chat | forum/newsgroup | social media sites | blog | call | video call | instant messaging | voice messaging]
* **Diagram 3**
  + **Process 3.1**
    - offensive material = [text | image | video | voice message]
* **Diagram 4**
  + **Process 4.1**
    - offensive material = [text | image | video | voice message]

**PROCESS SPECIFICATION**

* **Diagram 0**
  + **Process 1**
    - The attacker, by any means (e.g. buy a new one, borrow from a friend, etc.), gets his/her preferred device (assuming that he/she owns one or more of the types of electronic devices defined).
* **Diagram 2**
  + **Process 2.1**
    - The bully will select a communication medium (where he/she could execute his/her attack). Typically, this particular medium is the most accessible for him/her to use, or this is where the attacker had established a solid group of friends who will be there to act as his/her support (despite the wrongdoing that is going to be committed) to ensure the latter's protection.
  + **Process 2.2**
    - Once he/she (the attacker) has chosen his/her preferred medium, the next step is to make sure that he/she has enabled or acquired the materials needed in order to make the communication (through the medium) possible. He/she can look for a Wi-fi hotspot if they are planning to use a communication service on the web, or they can load some balances into their cell phones to express themselves through text. The possibilities will depend on what communication medium he/she has picked.
  + **Process 2.3**
    - In this process, the bully is expected to have already been logged-on into an account (or signed-in to create a new one) that he/she will be using to harm the victim (in the event that the attacker has chosen web communication services as his/her medium for sending the offensive material). Opening their sms app from their smartphones can also be included here. Anything that has to do with “logging himself/herself” inside the medium that was chosen falls under this process.
* **Diagram 3**
  + **Process 3.1**
    - Process 3.1 focuses on the act of reaching-out to the victim by means of sending offensive materials to his/her respective account, inbox (for phones and e-mail), etc. The term “sending” in this process includes posting, commenting, “tweeting”, etc. the said offensive material since such things were made visible on that particular website because the bully "sent" them through the network.
* **Diagram 4**
  + **Process 4.1**
    - This final process determines whether the material sent is indeed offensive or not to the victim. There are cases where a particular message will either leave a negative impact on a person or not. It depends on their corresponding views with regard to the thing that was sent to them. This stage is crucial for the development of the project because the only way to find out if the 'flagged' words are indeed cyberbullying trends is by asking that same person as well if it had offended him/her in some way. However, whether or not the user finds a particular word (that was 'flagged'), the system will still need to keep its watch on the pertained words (due to the fact that it might be considered harmful on a different person).