**Results and Discussion**

The original morphological analyzer made by Alcantara et al. Was fed with 1,402 Filipino verbs and the accuracy measured with 1,402 verbs is shown on table 1

Table 1: The result of the initial testing with 1,402 Filipino verbs.

|  |  |  |  |
| --- | --- | --- | --- |
| *Expected Output* | *Correct* | *Error* | *Undetermined* |
| Tense | 98.79% | 2.21% | 0% |
| Infinitive Form | 92.08% | 7.92% | 0% |
| Affix | 98.72% | 2.28% | 0% |
| Root Word | 84.45% | 15.55% | 0% |

Aranzamendez et al. Improved the lexicon of the Morphological System presented by Alcantara et al. As the latter indicated on their journal that the lexicon they used was still lacking some Filipino verbs. 2,044 Filipino verbs were fed into the prior’s database, verb fed included 5 tenses as the author of the research made so. Aranzamendez et al. Followed the format of the author on adding verbs. The total verbs now existed on the database is 3,446 and as we computed the rating of the system with 3,446 verbs by getting the mean of each featured tenses, the prior group came out with these resuts.

Table2: The result of the initial testing with 3,446 Filipino verbs.

|  |  |  |  |
| --- | --- | --- | --- |
| *Expected Output* | *Correct* | *Error* | *Undetermined* |
| Tense | 99.59% | 0.41% | 0% |
| Infinitive Form | 97.06% | 2.94% | 0% |
| Affix | 99.59% | 0.41% | 0% |
| Root Word | 96.89% | 3.11% | 0% |

The results on table 1 shows a high accuracy, but the only problem is the lack of verbs as the authors only fed common and important verbs on the system. The new database had resulted a even more high accuracy as shown on table 2.