

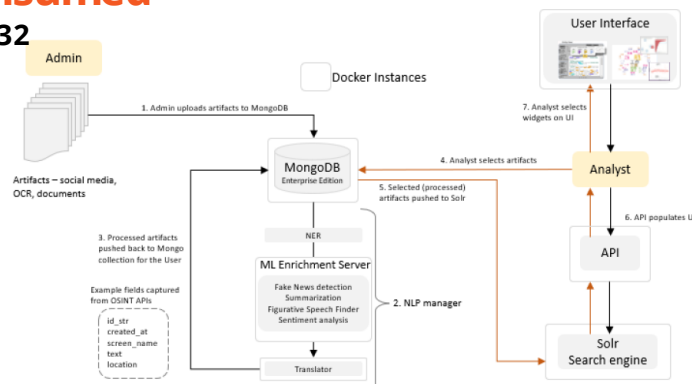
CPO 55 SBIR 22.4 Phase II Eccalon

Project Summary

SOFWERX, in partnership with the United States Special Operations Command (USSOCOM) Small Business Innovation Research (SBIR) program office, awarded a SBIR Phase II contract to Eccalon for SOCOM topic 224-D002 titled “Foreign Language, Natural Language Processing (NLP) for Special Operations Forces.” Eccalon was tasked with developing a text analytics tool – Non-English Text Input Semantic Extractor (N-TISE) – capable of performing natural language processing (NLP) directly on non-English text. This tool can enable users not proficient in a target language to extract relevant operational information.

Resources Consumed

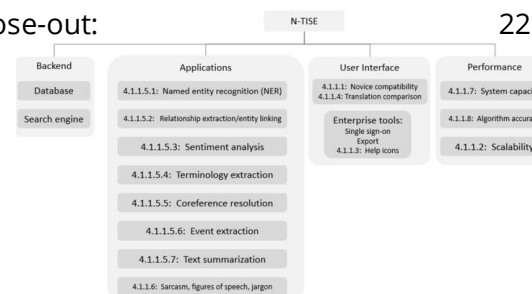
Total Cost: \$1,191,332



Project Timeline

Project Kick-off:
Project Close-out:

30 September 2022
22 January 2024



Project Results

Eccalon successfully developed an NLP tool for delivery as a Docker instance, with each system component separated into individual docker instances to minimize software dependency conflicts. The system components include MongoDB, Stanza named entity recognition (NER), Solr search engine, application program interface (API), user interface, and machine learning algorithms. The system features a multi-view user interface with terminology ingestible by novice (English-speaking only) users, in collaboration with the Mission Command System/Common Operational Picture (MCS/COP) team. Eccalon delivered the final report to the Defense Technical Information Center (DTIC).