Generation and Analysis of Semantic Metadata Records Based on the Targeted Retrieval of Open-Web Resources for an Automated Article Search Engine Agent

Project Overview

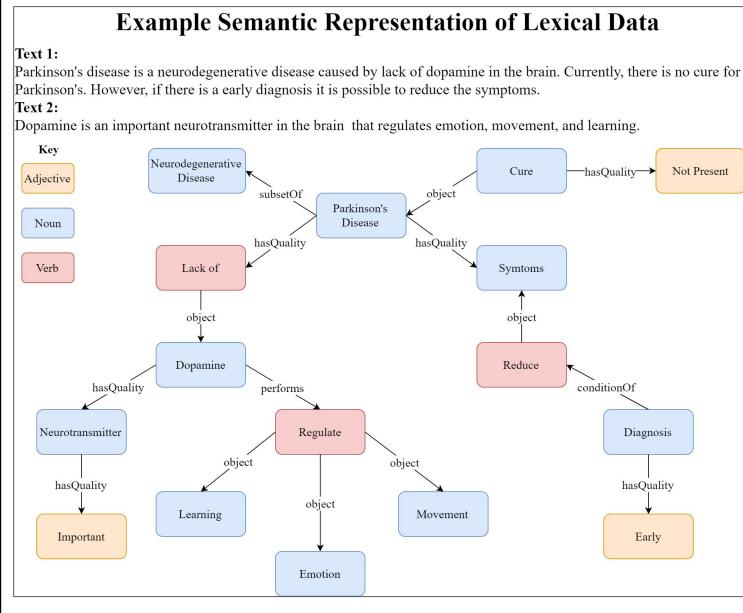
Introduction

Here we Introduce CoVaSEA, an automated hybrid lexical-semantic search utility. The system is designed to act as an Article Search system which can service many people at once. It is designed to act as a framework for other solutions once completed fully. Here we Introduce CoVaSEA, an automated hybrid lexical-semantic search utility. The system is designed to act as an Article Search system which can service many people at once. It is designed to act as a framework for other solutions once completed fully. Here we Introduce CoVaSEA, an automated hybrid lexical-semantic search utility. The system is designed to Here we Introduce CoVaSEA, an automated hybrid lexical-semantic search utility. The system is designed to Here we Introduce CoVaSEA, an automated

Lexical Web

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Semantic Web



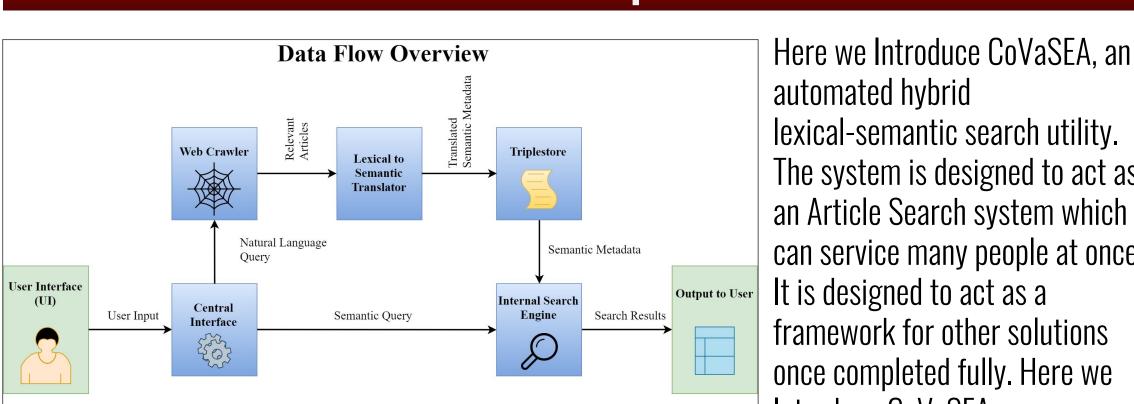
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Purpose of System

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General Pipeline



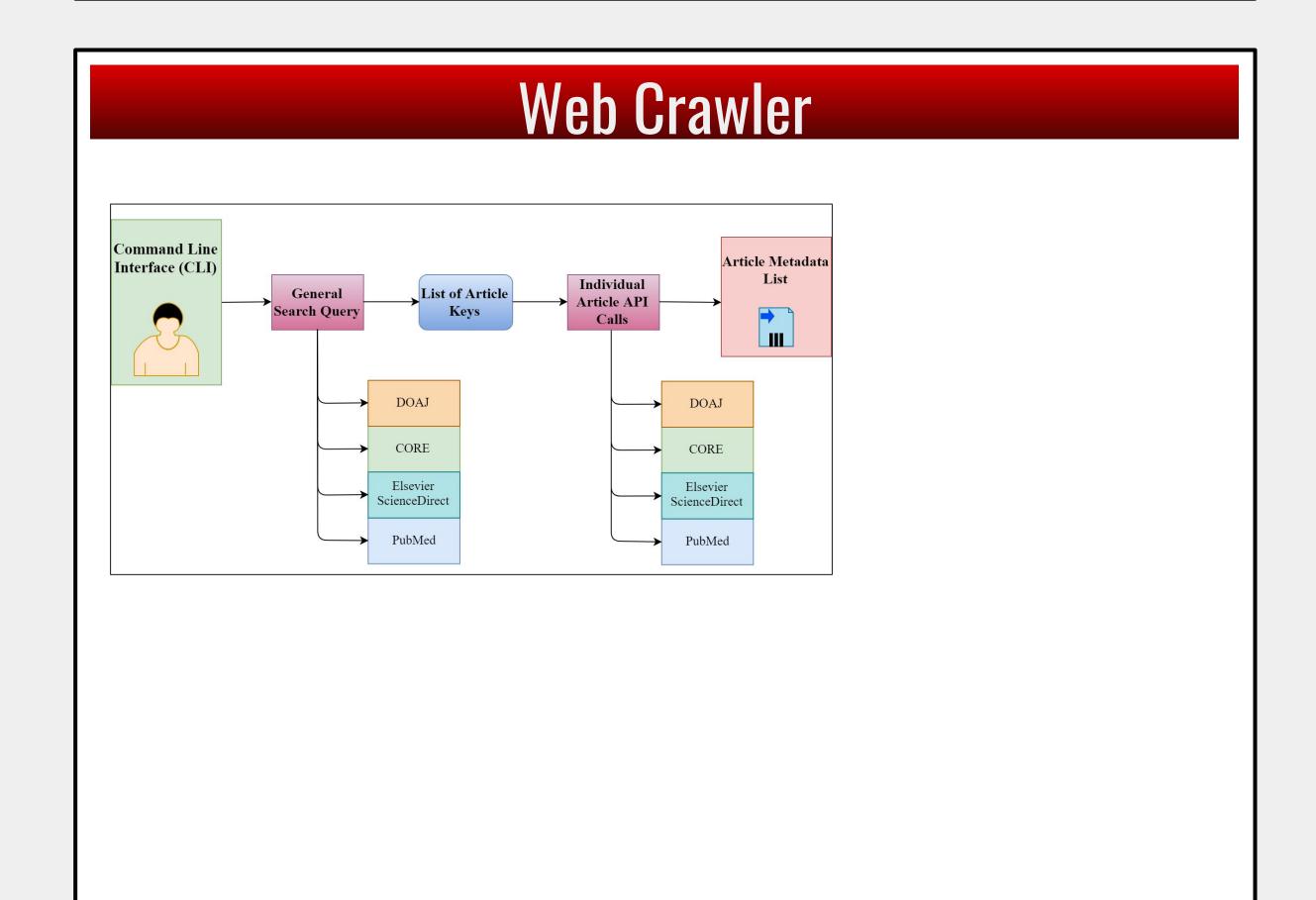
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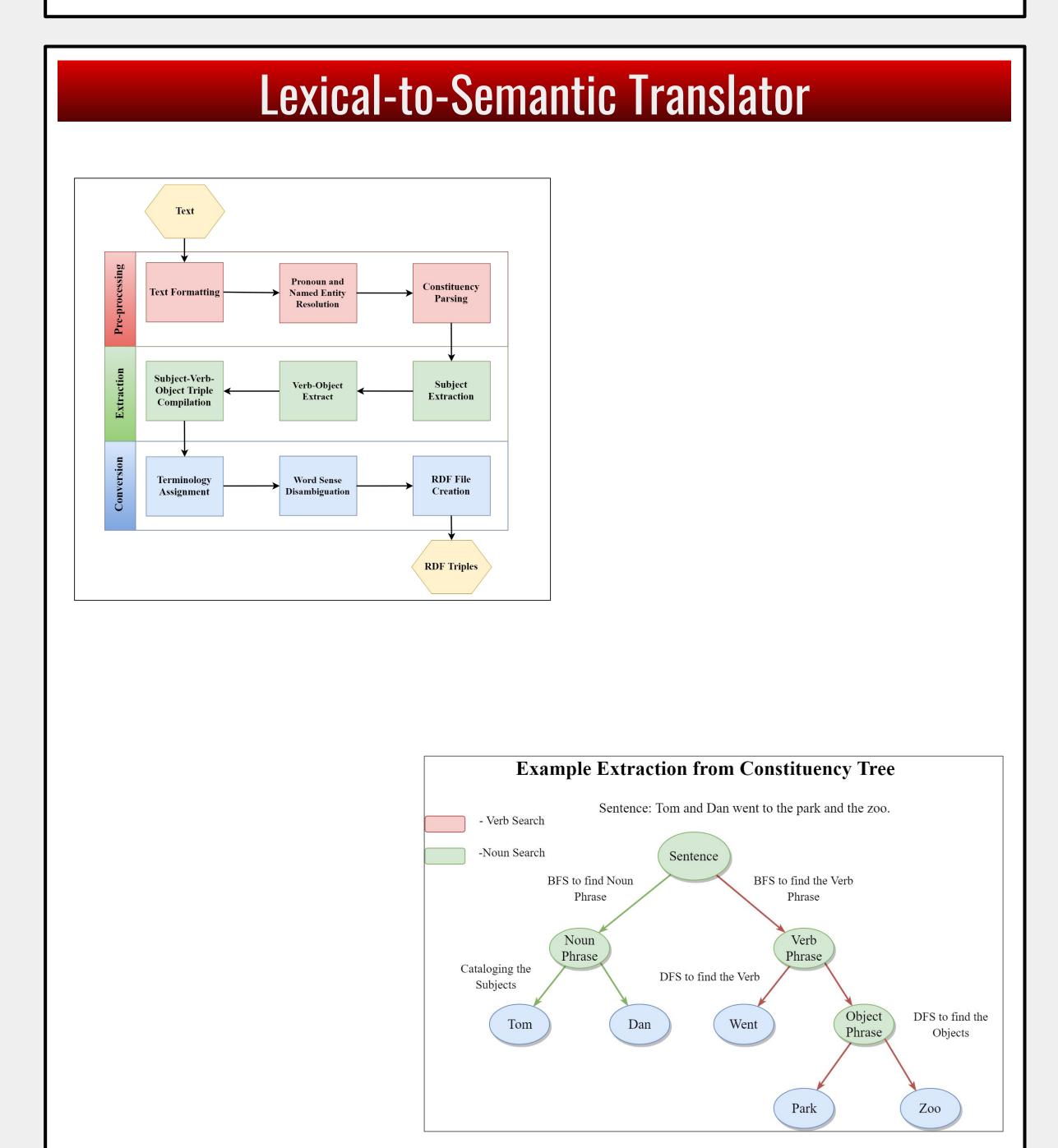
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Pre-processing	Extraction	Conversion	Triplestore	Internal Search	Query Builder	Output
Removal of Tags Sentence and Paragraph seperation Coreference Resolution Named Entity Recognition Constituency Tree creation	BFS for noun phrase Seperation of nouns and adjectives BFS for verb phrase DFS for verb and object SVO triple compilation	Named Entities assigned Word Sense Disambiguation Literals Assigned Triple construction RDF File Encoding	Triplestore (local or remote)	Creation of SPARQL Query Local Unified Graph Formation SPARQL Search SPARQL result formatiing	Inputting of conditions Inputting of return values Inputting of post-conditions SPARQL query building	Graphical User Interface User

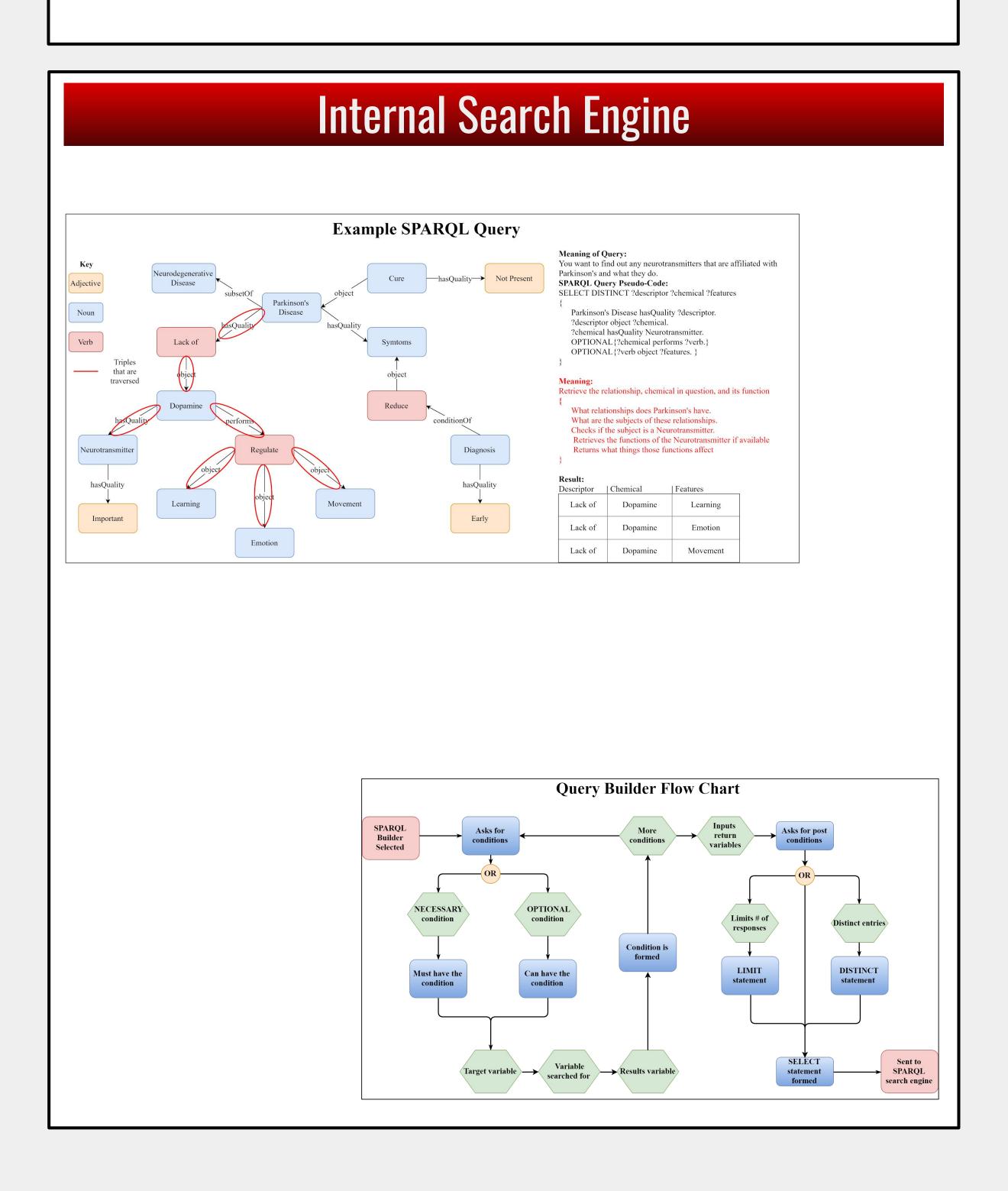
SHIRASE Architecture

Methods and Components

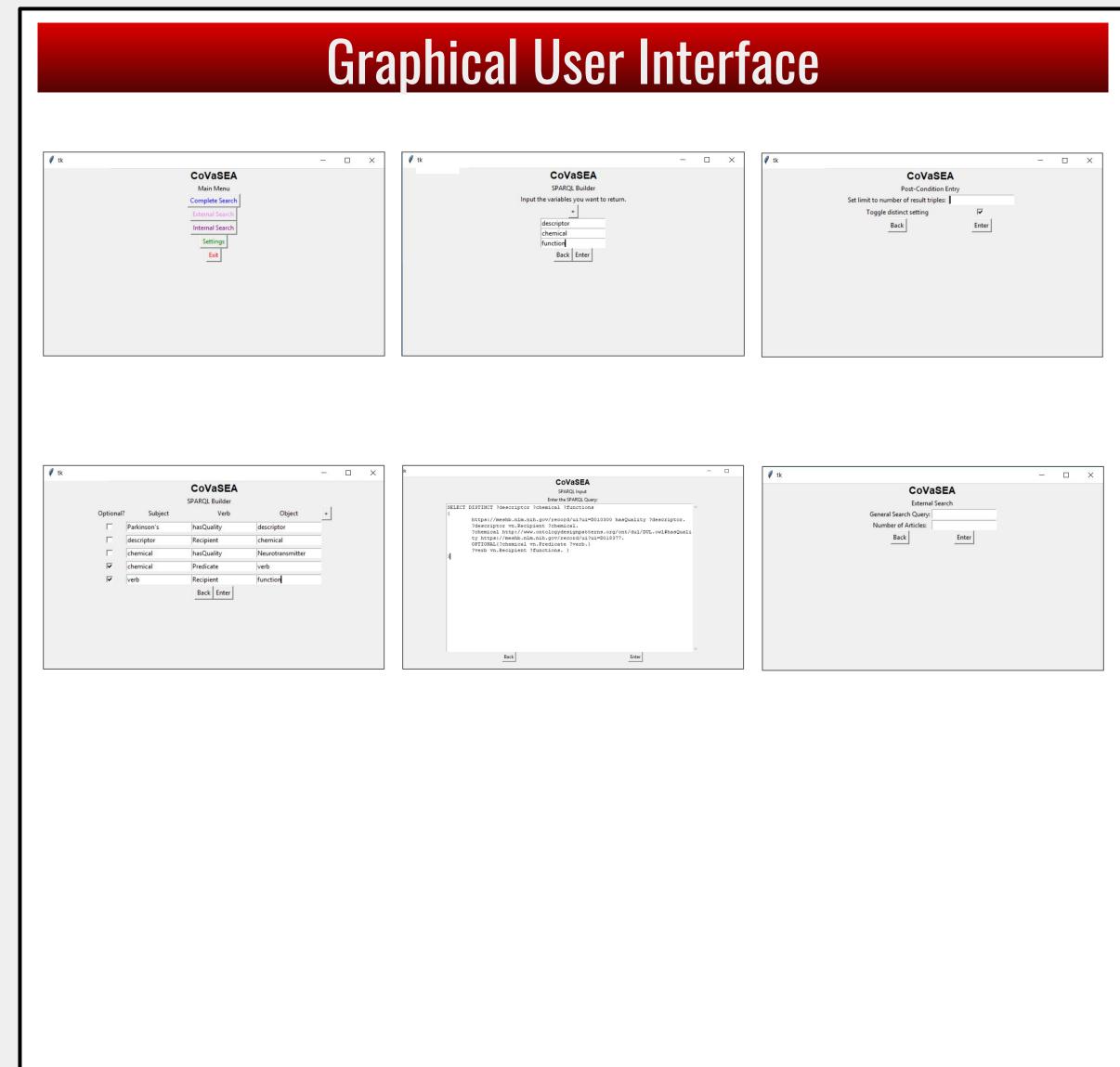


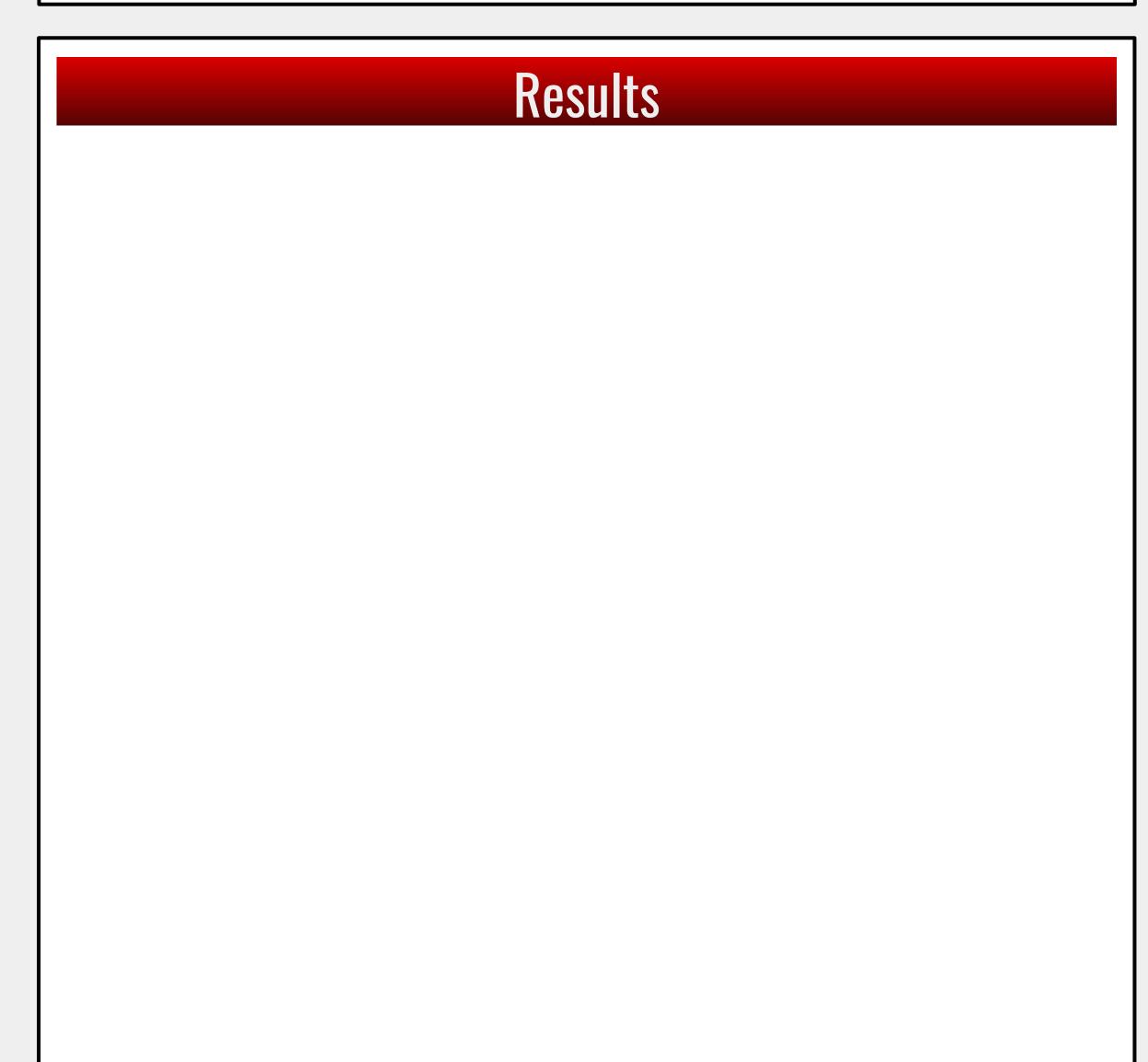


Triplestore



Results and Conclusions





Discussion and Conclusions

