

Knight Foundation School of Computing & Information Sciences

Automated Grading of Essays

Summer 2022 Capstone 2

Students: Alejandro Cala

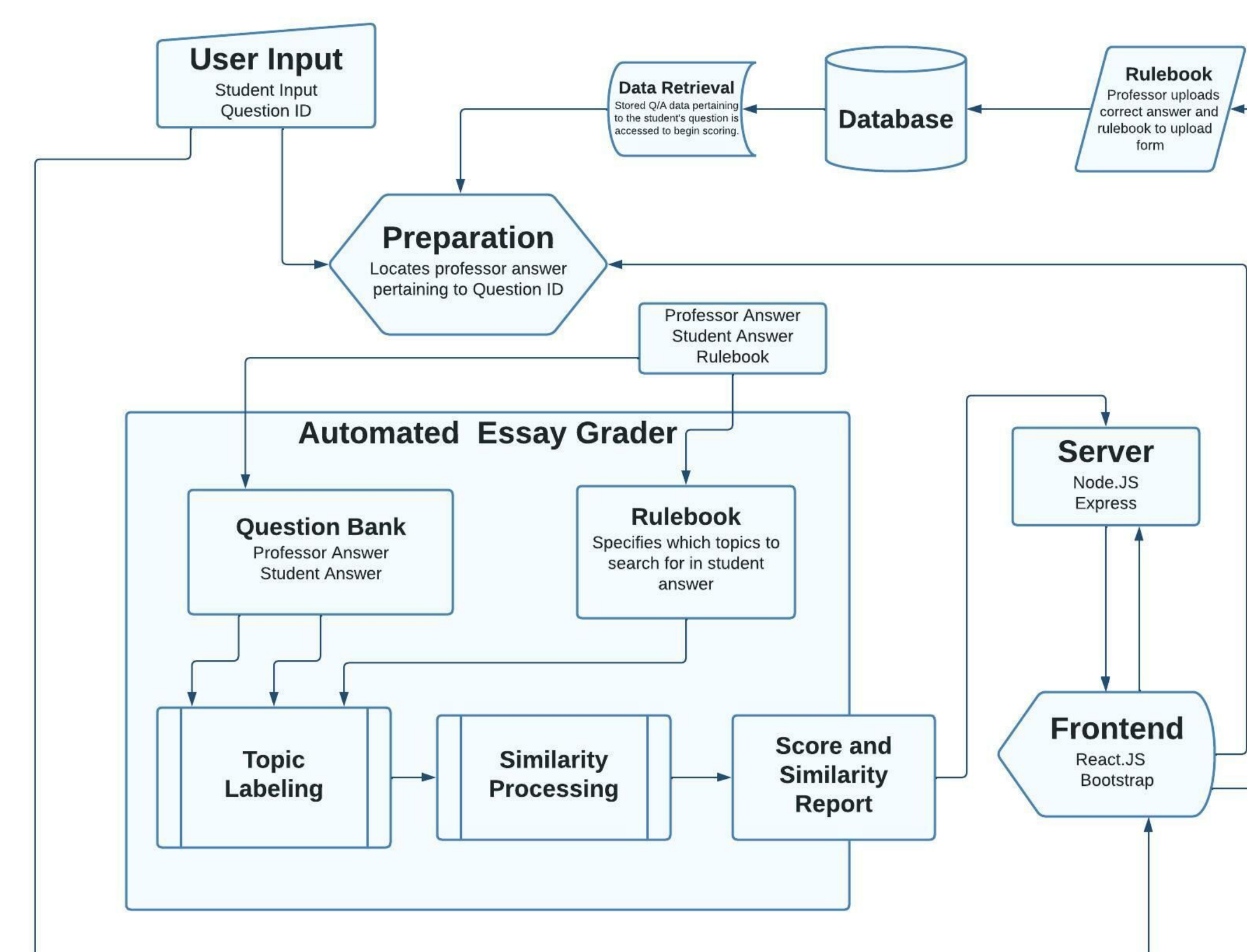
Mentor: David Gray, BSBA/JD, StudyBuddy Pro LLC

Instructor/Faculty: Dr. Masoud Sadjadi, PhD, Florida International University

PROBLEM

Law students and professor based their writing on essays were must be scored one by one, providing grammar, engagement, tone, and readability details. StudyBuddy Pro aims to automate the system of grading an essays by giving faster and effective score feedback.

SYSTEM DESIGN



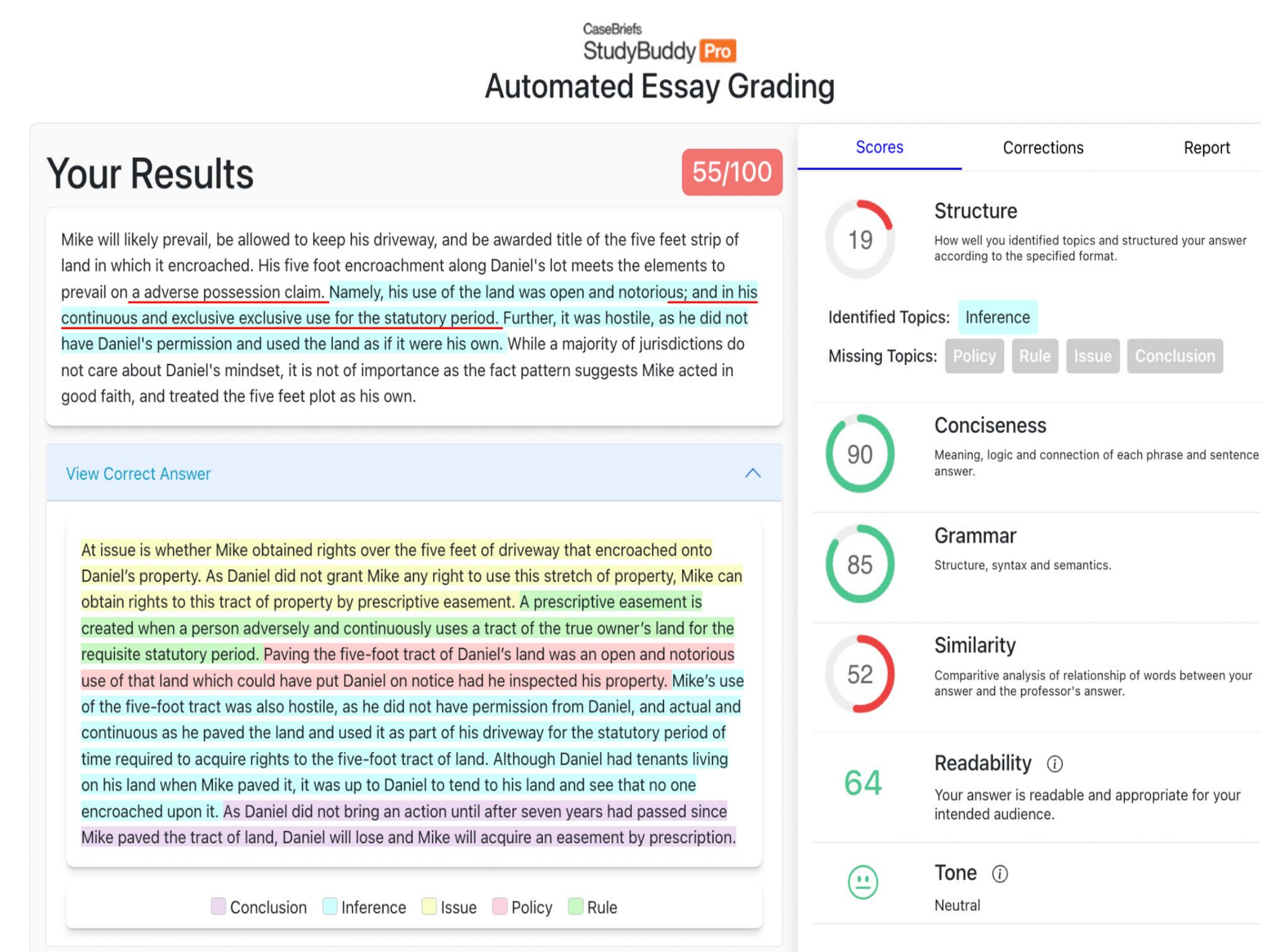
VERIFICATION

- Uses NLTK API to measure the sentiment analysis written by the student as positive, negative and neutral.
- Measure similarity, grammar error, identify topic selection
- detects the conciseness and readability of the student answer.

CURRENT SYSTEM

StudyBuddy Pro currently has case briefs, lessons, outlines, refresher courses, issue spotting essays, etc. However, do not provide a customs score systems for essay grading.

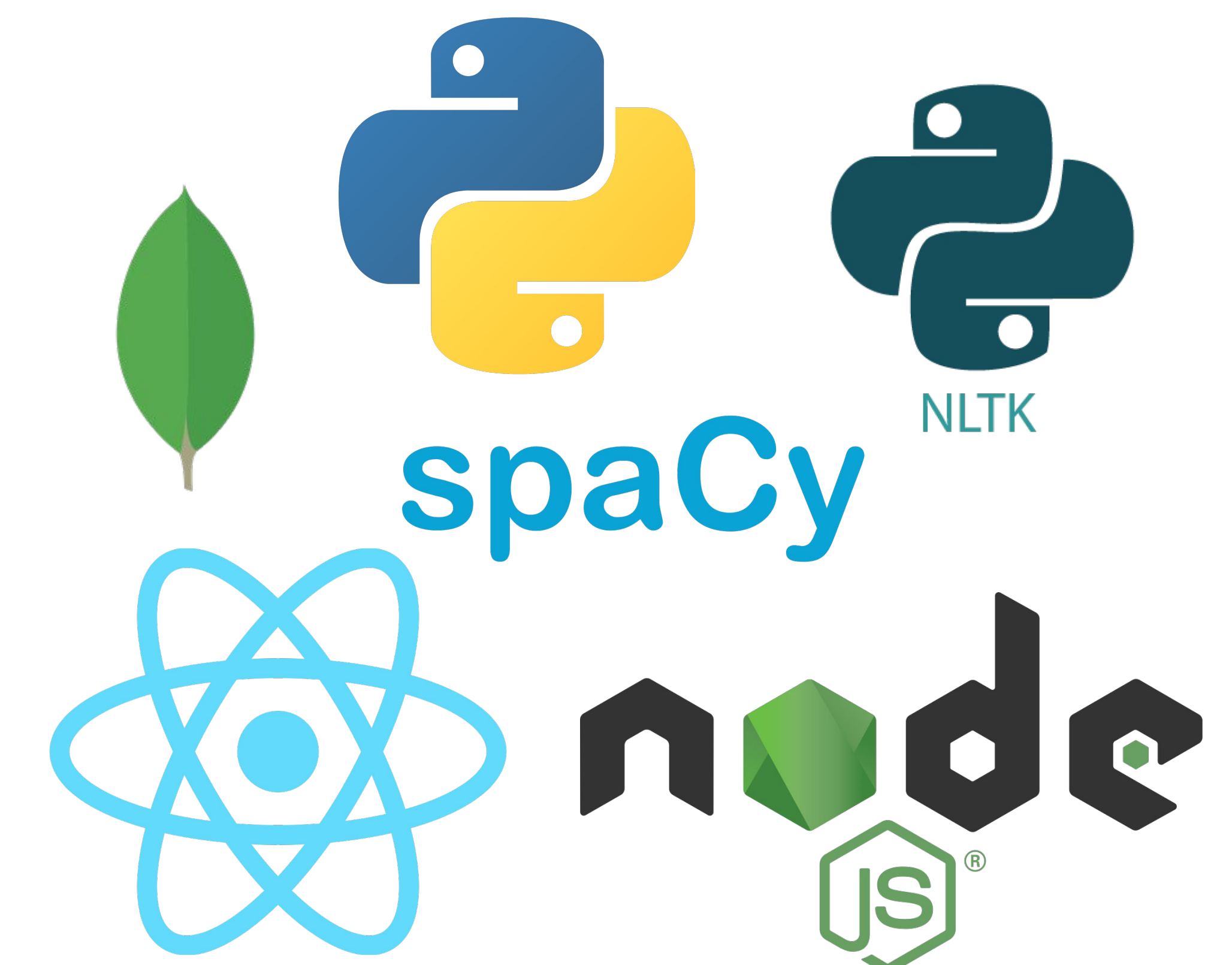
OBJECT DESIGN



REQUIREMENTS

- Implementation of function that will compare the student answer with the professor and provide feedback.
- Identify key topics within an answer to an essay question
- determine the grammar error, engagement, sentence structure, sentiment analysis.

IMPLEMENTATION



SUMMARY

StudyBuddy Pro is a platform for helping law students succeed in law school by giving them essay questions to practice. Students get scores based on how well they answer the questions based on the topic selection, reader engagement, writing skills.

REFERENCES

The appropriate materials for research were provided by the project owner David Gray from StudyBuddy Pro.

ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by Mr. David Gray. We thank Mr. David Gray for his assistance and mentorship that we received throughout this process.