



Knight Foundation
School of Computing
and Information Sciences

Knight Foundation School of Computing and Information Sciences

Spring 2022 Senior Design Project



Automated Essay Grading

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

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

PROBLEM

We wanted a way to automatically grade essays from law students using the StudyBuddy Pro platform

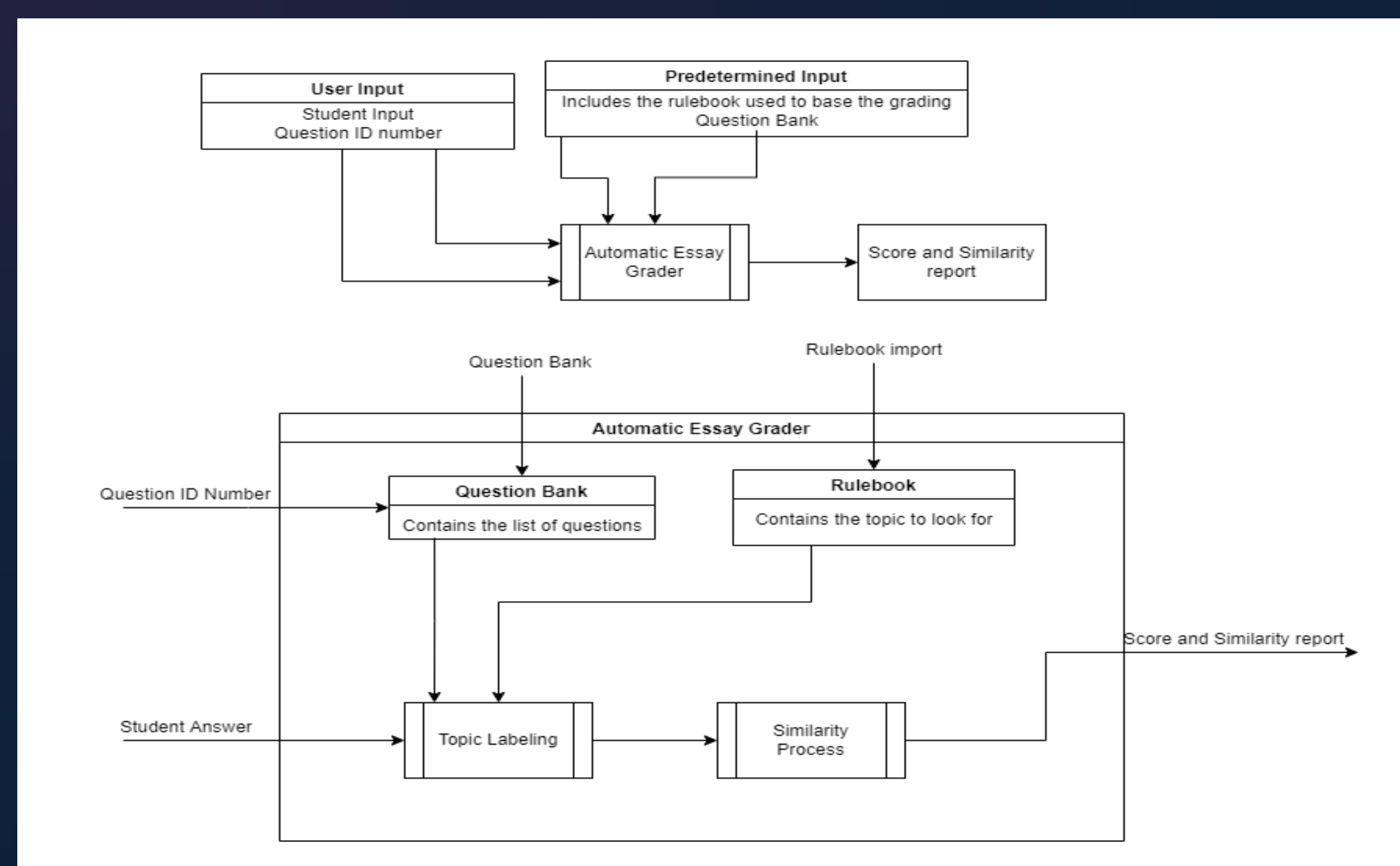
CURRENT SYSTEM

Currently, the AEG system can take in a student's answer to a question and compare it to a professor's correct answer.

REQUIREMENTS

- Professor must provide a question and the correctly labeled answer.
- StudyBuddy Pro must be used for the question and the answers for both the professor and the student

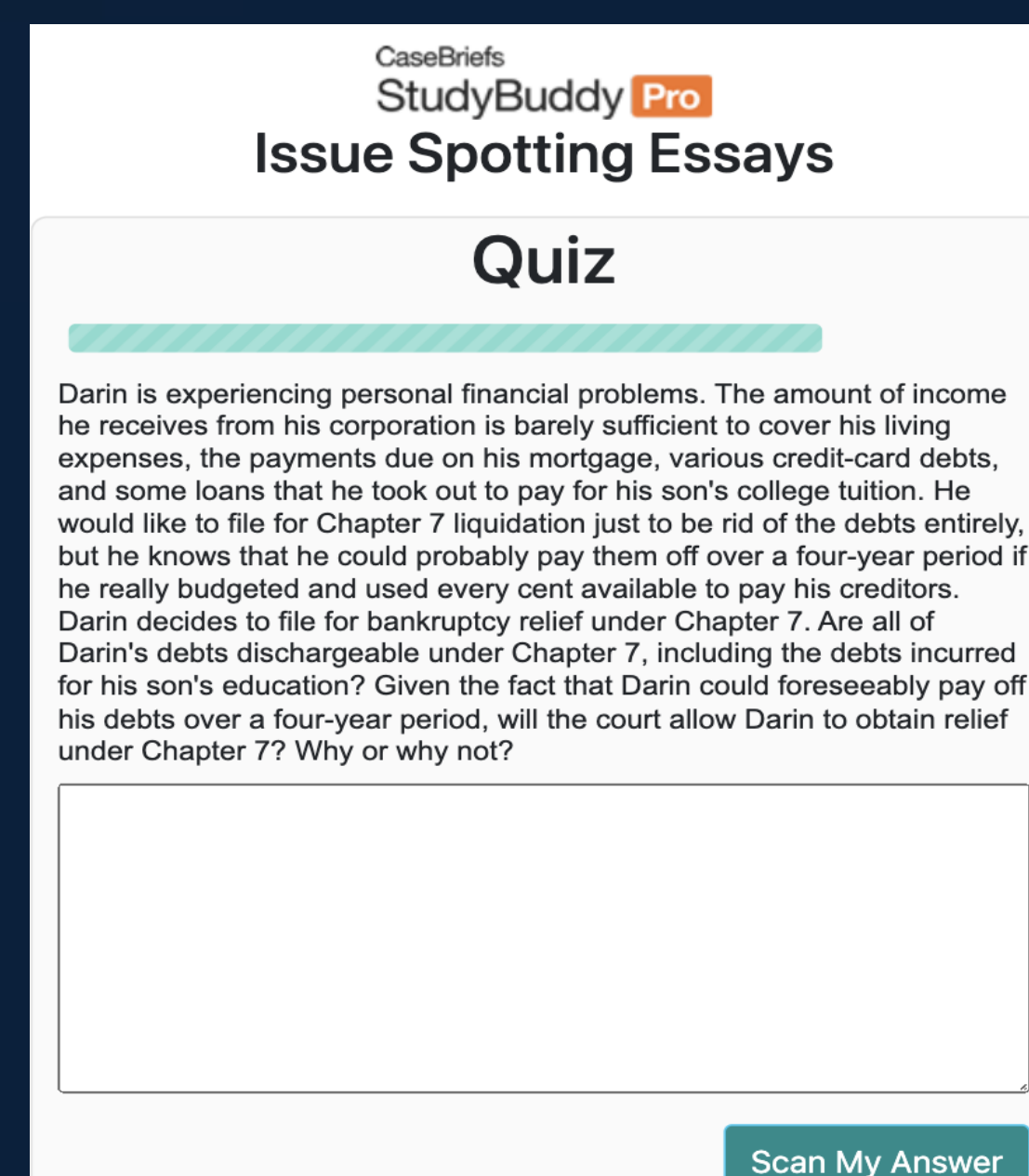
SYSTEM DESIGN



VERIFICATION

The system uses synonyms in order to find the most relevant topic to the sentence
The system checks for any grammar or spelling mistakes

OBJECT DESIGN



SUMMARY

The Automated Essay Grader uses StudyBuddy Pro, a platform used for helping law students by giving them practice questions that they can complete and get feedback on topics, spelling and grammar, and other mistakes.

IMPLEMENTATION

- The SpaCy program has been implemented in order to complete the natural language processing
- We have been using GitHub in order to work together

REFERENCES

Used the SpaCy library in order to help with the NLP and pipeline
All other resources were provided by the project owner, David Gray

ACKNOWLEDGEMENT

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