

Knight Foundation School of Computing & Information Sciences

Automated Grading of Essays

Summer 2022 Capstone 2

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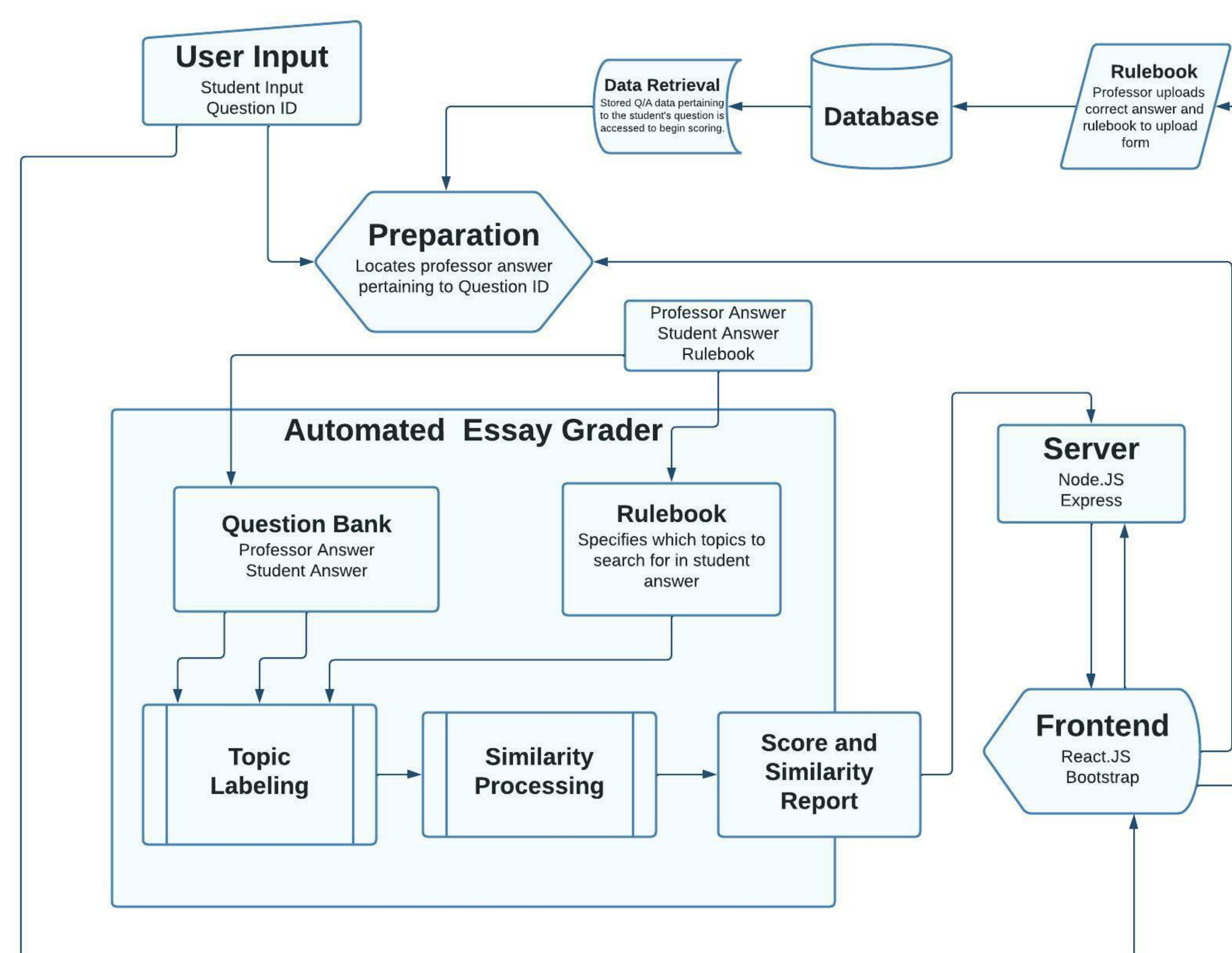
Mentor: David Gray, BSBA/JD, StudyBuddy Pro LLC

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

PROBLEM

- Essays submitted to the platform must be graded automatically based on grammar, conciseness, structure, biasness, professionalism tone, etc.
- Student must be able to receive feedback about their answer and be able to improve their essay.

SYSTEM DESIGN



VERIFICATION

- Measure similarity, grammar error, identify topic selection.
- Identifies topics using semantic similarity.
- Detects readability and conciseness.
- Detects whether a answer is subjective or objective.

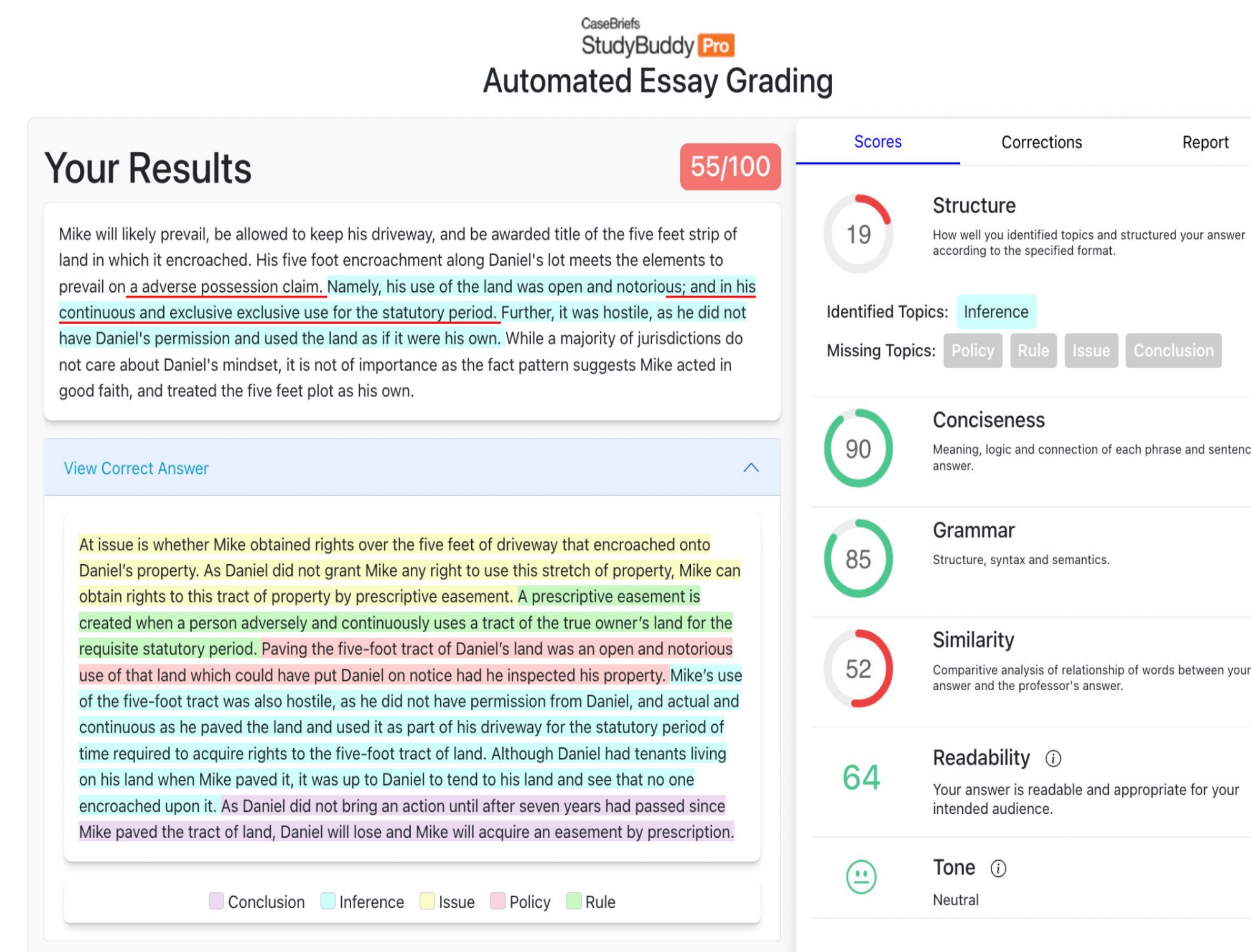
ACKNOWLEDGEMENT

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.

CURRENT SYSTEM

StudyBuddy Pro currently offers a service called issue-spotting essays which gives users short response questions that currently do not provide personalized feedback to the students.

OBJECT DESIGN



REQUIREMENTS

- Implementation of function that will compare the student answer with the professor and provide feedback.
- determine the grammar error, engagement, sentence structure, sentiment analysis.
- Checks for conciseness and checks for subjectivity/objectivity.
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IMPLEMENTATION



SUMMARY

StudyBuddy Pro is a platform for helping law students succeed in law school by giving them essay questions to practice. Students get scored based on how well they answer the questions, identify topics, and the overall quality of their writing.

REFERENCES

The appropriate materials were provided by the project owner David Gray from StudyBuddy Pro to support this project.