

Knight Foundation School of Computing & Information Sciences

Automated Grading of Essays

Summer 2022 Capstone 2

Students: Ailany Rodriguez

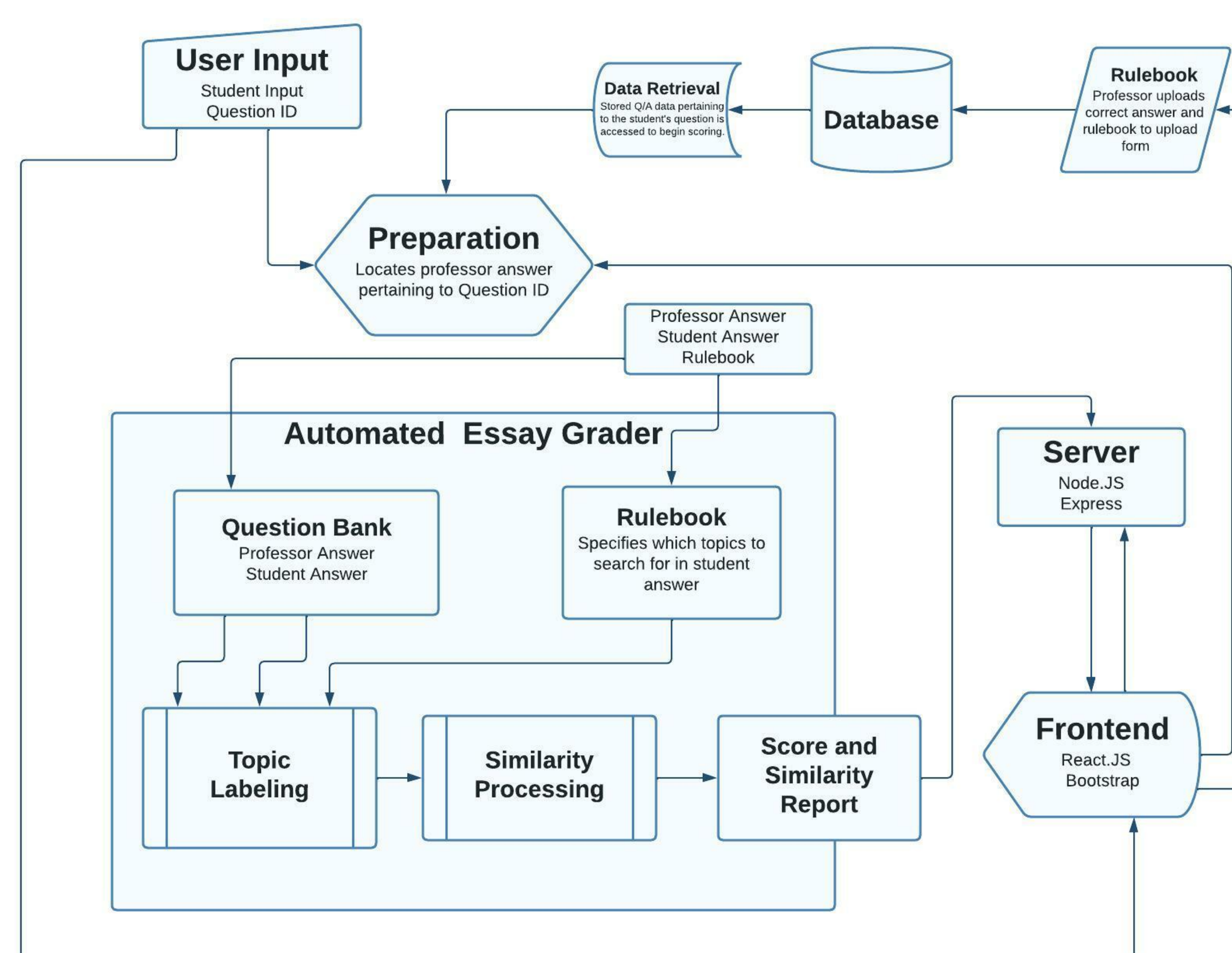
Mentor: David Gray, BSBA/JD, StudyBuddy Pro LLC

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

PROBLEM

- Essays submitted to the platform must be graded automatically based on a professor defined rulebook, as well as a variety of scores.
- Student must be able to receive feedback about their answer and be able to improve their essay.

SYSTEM DESIGN



VERIFICATION

- Checks grammar, spelling, and any errors in the response.
- Identifies topics using semantic similarity.
- Detects readability and conciseness.
- Identified topics and missing topics are highlighted.

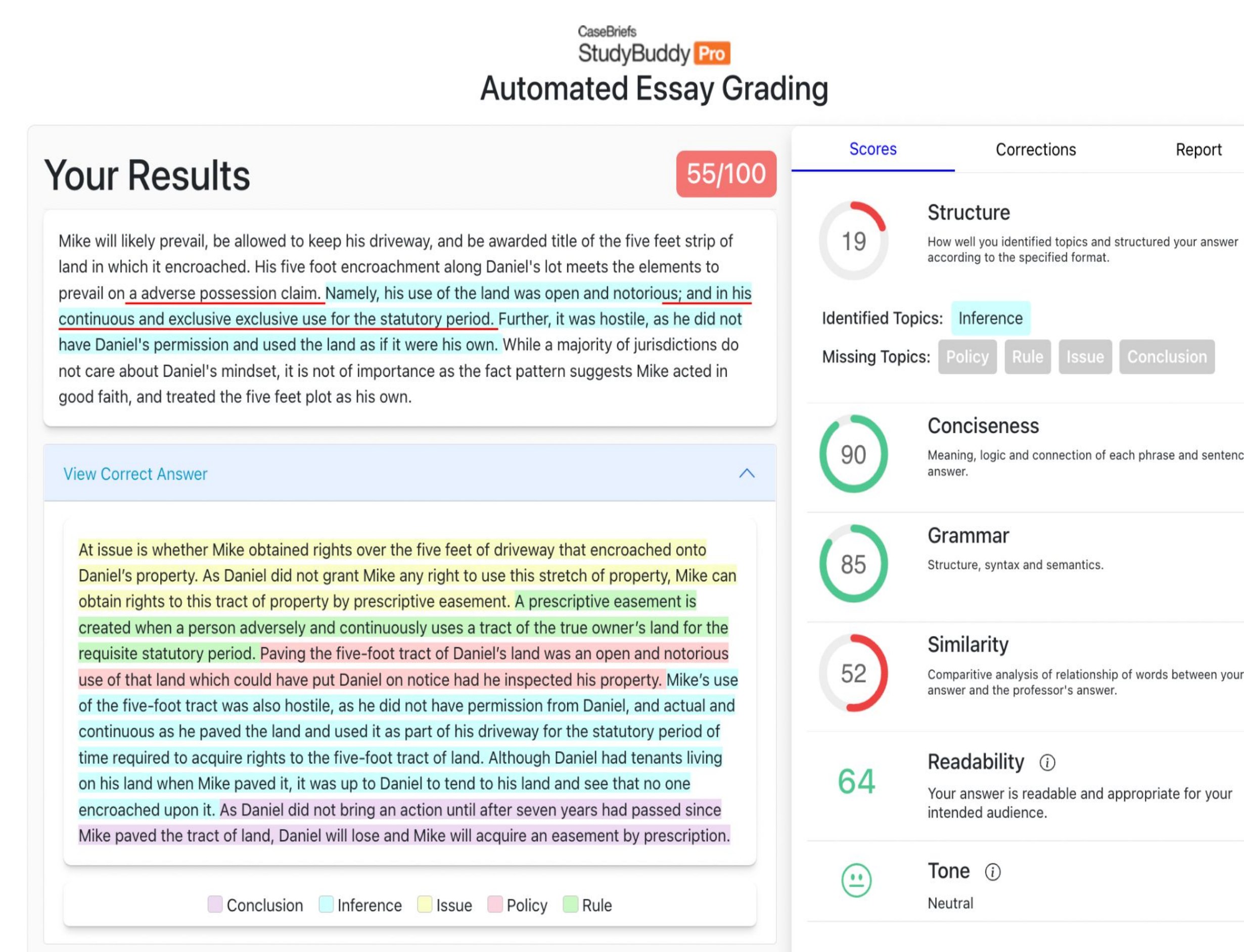
ACKNOWLEDGEMENT

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

- Identify legal topics in a student answer using a professor-defined rulebook
- Compare student answer to a given correct response using semantic similarity model.
- Pull Q/A data from database and use that data to score the user's answer.
- Display the results on a page that is detailed and informative.

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.