

Knight Foundation School of Computing & Information Sciences

Automated Grading of Essays

Summer 2022 Capstone 2

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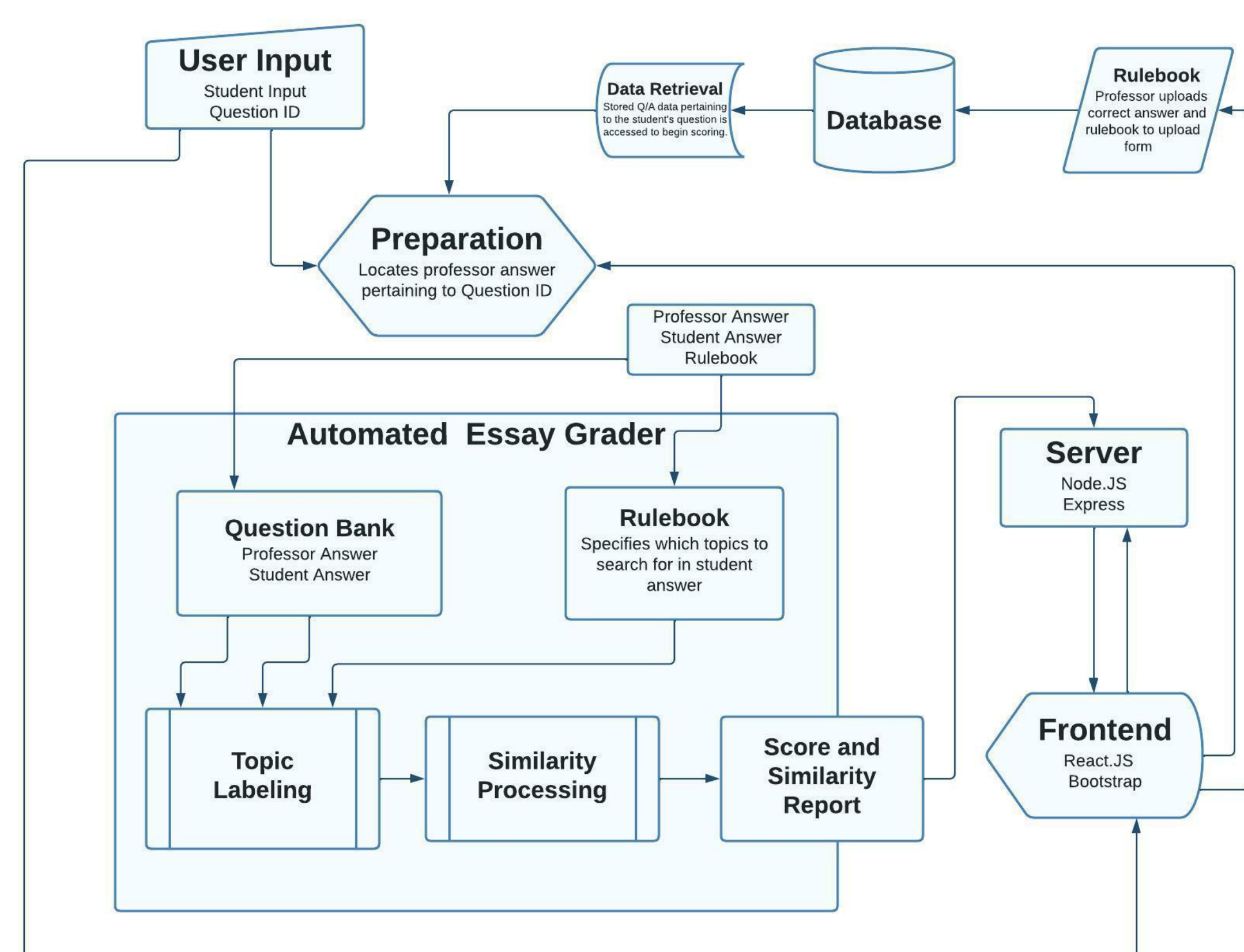
Mentor: David Gray, BSBA/JD, StudyBuddy Pro LLC

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

PROBLEM

Law students must write lots of essays during their academic studies. Law students lack an all-in-one system that can easily critique their essays and provide feedback on numerous aspects of their writing, without depending on anyone else. StudyBuddy Pro seeks to solve this issue and improve students writing.

SYSTEM DESIGN



VERIFICATION

- Natural Language Processing techniques using spaCy are used to calculate a wide range of scores for feedback
- Data is stored in MongoDB.
- Extensive testing done by adjusting parts of the answers to verify the integrity of the scores.

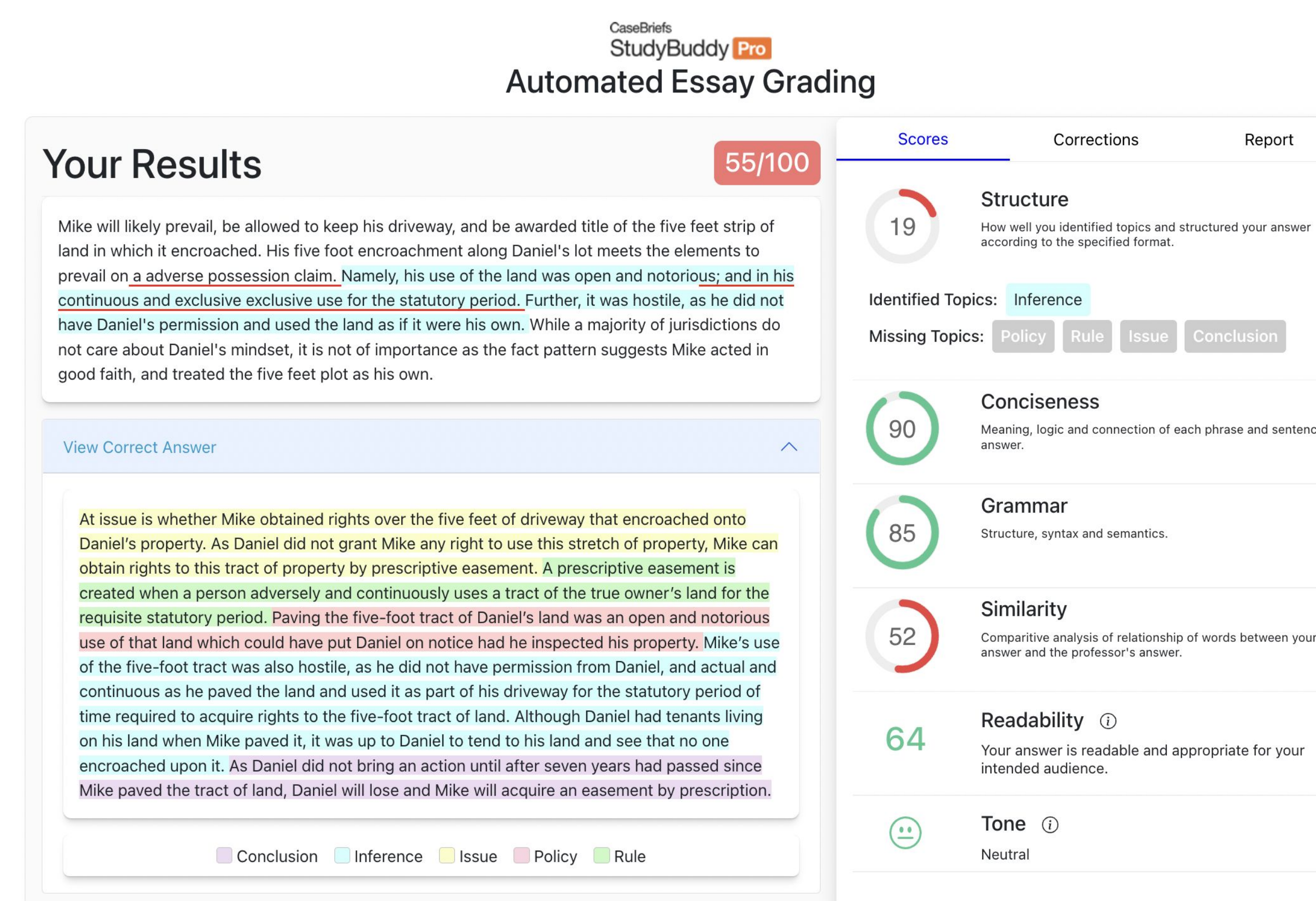
ACKNOWLEDGEMENT

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CURRENT SYSTEM

StudyBuddy Pro currently has case briefs, lessons, outlines, refresher courses, issue spotting essays, multiple choice quizzes, exam prep workshops, and charts, and notes.

OBJECT DESIGN



SUMMARY

StudyBuddy Pro is a platform made for providing law students with a tool that can improve many aspects of their writing. With ever-growing essay banks, law students can sharpen their writing skills and transition to more professional writing to prepare for their careers. Instant essay feedback allows for rapid, unhindered academic and professional growth.

REQUIREMENTS

- Create a working essay analyzer that uses functions to score various aspects of writing including structure, readability, conciseness, grammar, semantic similarity and tone.
- Create a front-end service where students can access the practice tools and improve writing.
- Create professor-only tools that allow professors to set rules and topic preferences.

IMPLEMENTATION



REFERENCES

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