

Knight Foundation School of Computing & Information Sciences

Automated Grading of Essays

Summer 2022 Capstone 1

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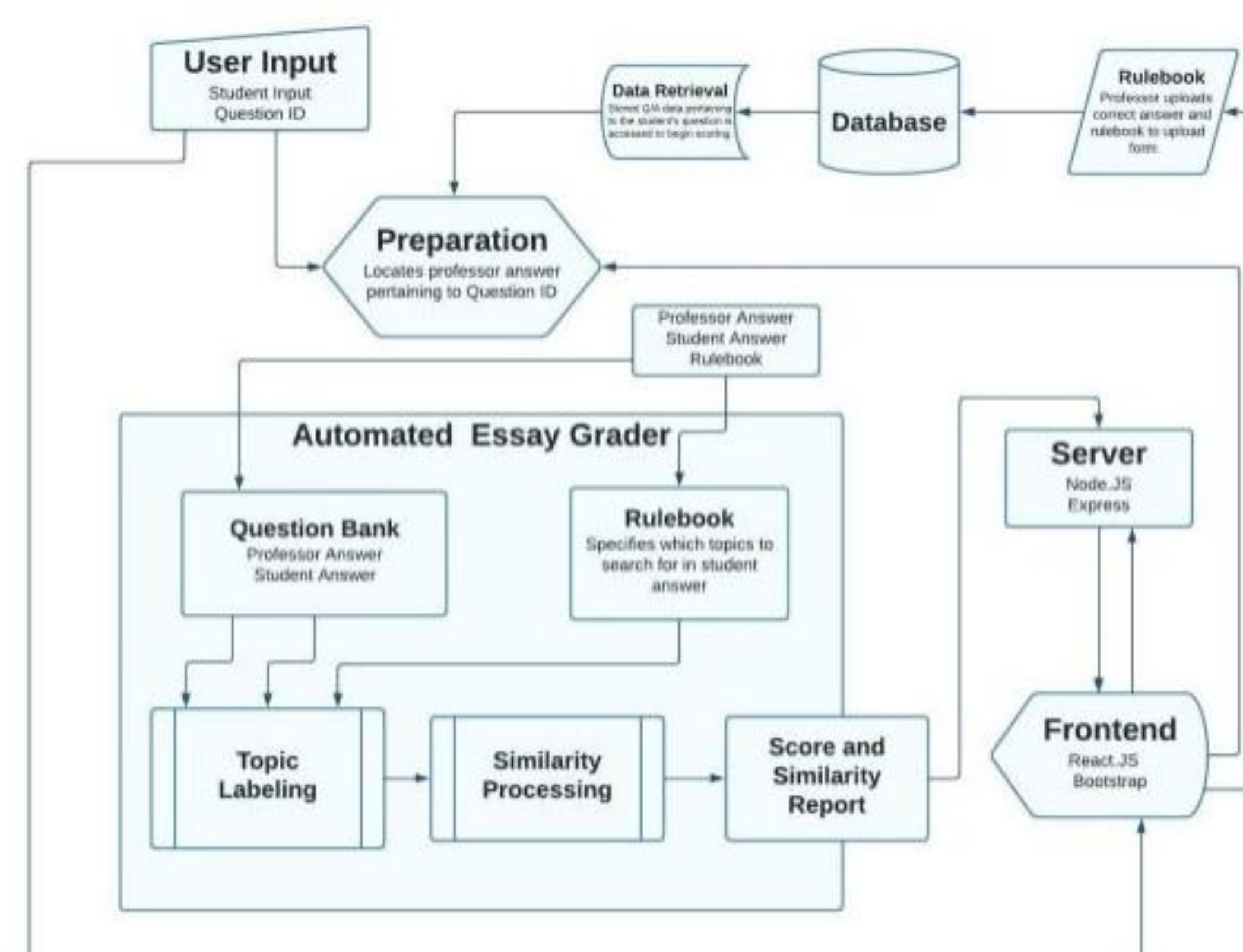
PROBLEM

Need the ability to calculate and provide feedback for readability and conciseness.

Need the ability to detect, calculate and provide feedback for academic tone in writing.

Need the ability to store data in database to get rid of csv files.

SYSTEM DESIGN



VERIFICATION

- Use Flesch Reading Ease to calculate readability.
- Leverage LanguageTool's API to check for conciseness issues.
- Use MongoDB to store data.
- Use characteristics of academic tone in writing, sentiment, and topic identification to detect and score academic tone.

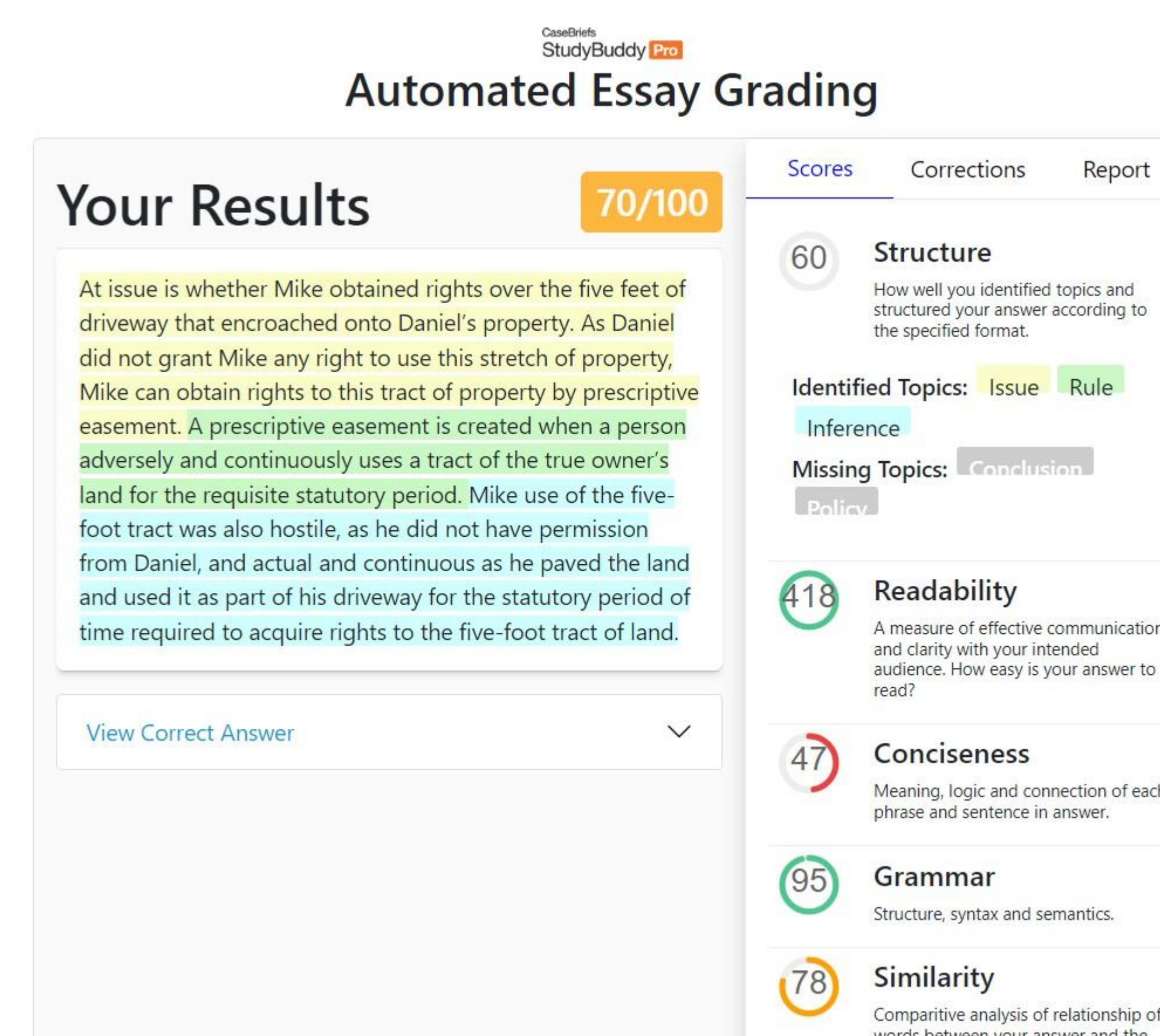
ACKNOWLEDGEMENT

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 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 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 and receive feedback about sections missed as well as spelling and grammatical errors.

REQUIREMENTS

- Create functions that can score the readability and conciseness of student answers and provide feedback.
- Create base functions to query the database.
- Create functions that can detect and score academic tone in student written answers and provide feedback.

IMPLEMENTATION



REFERENCES

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