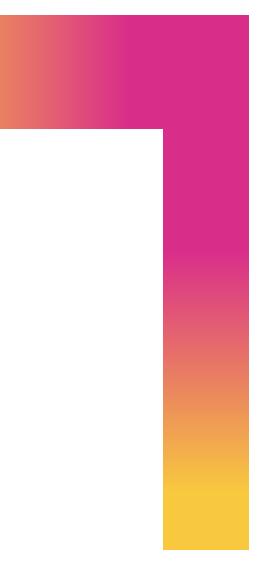


Knight Foundation School of Computing & Information Sciences

Spring 2022 Capstone 1



Automated Grading of Essays

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

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

PROBLEM

StudyBuddy Pro needs a way to provide more relevant/personalized feedback to students on their essay responses.

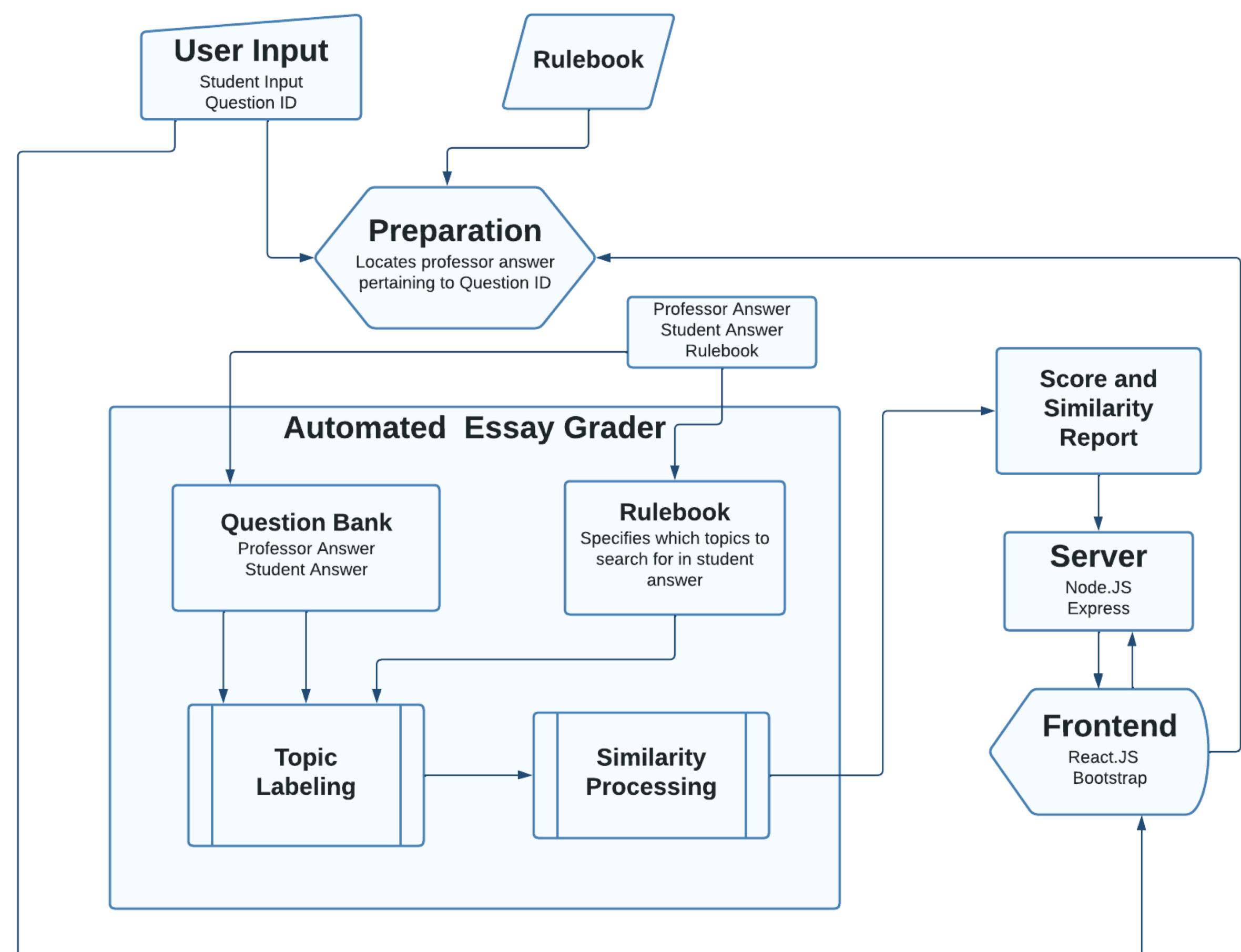
CURRENT SYSTEM

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

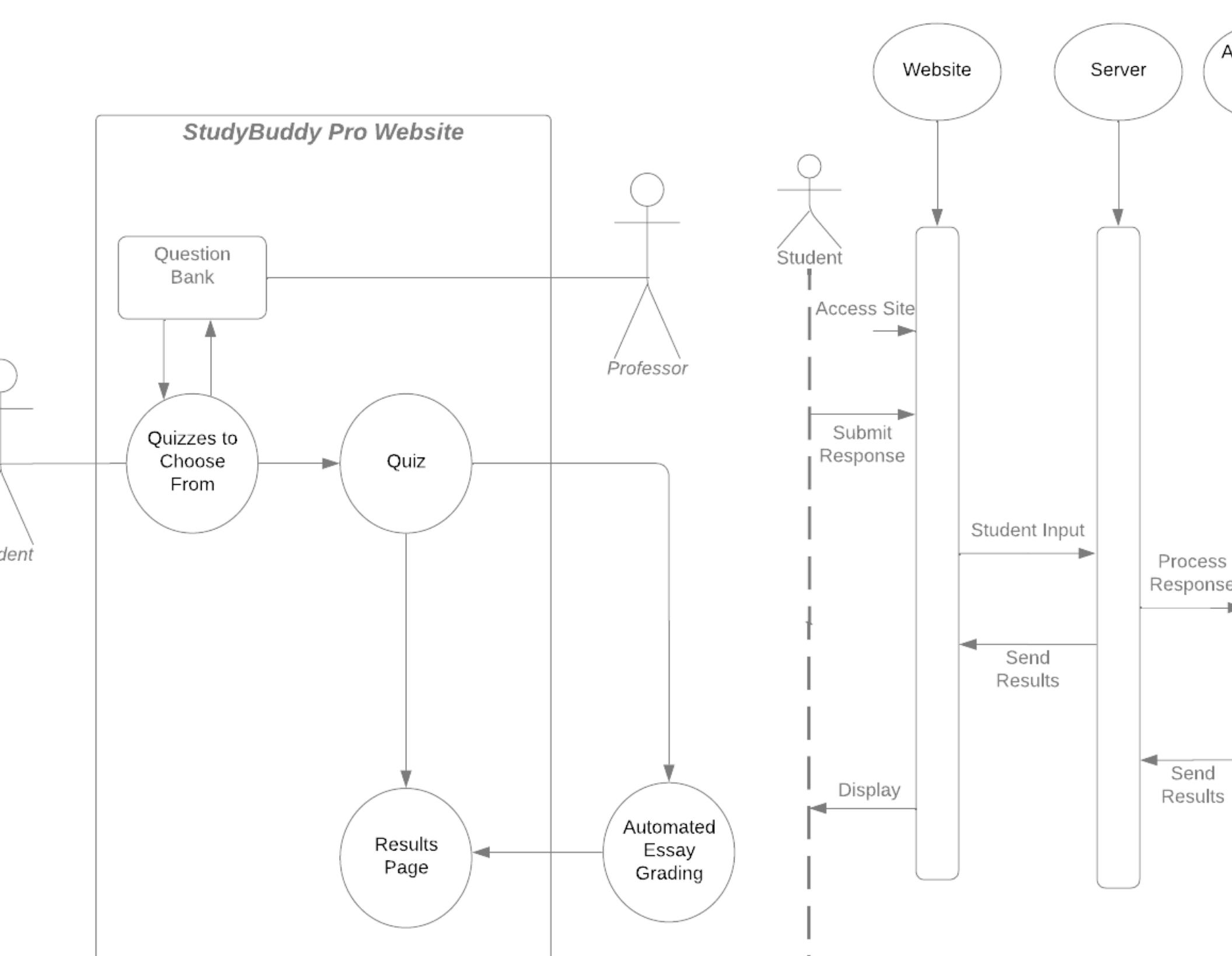
REQUIREMENTS

- Create a question bank with essay questions for law students to practice
- Process student responses and give feedback on sections of the response, plus other scores.
- Display feedback on website in a meaningful way.

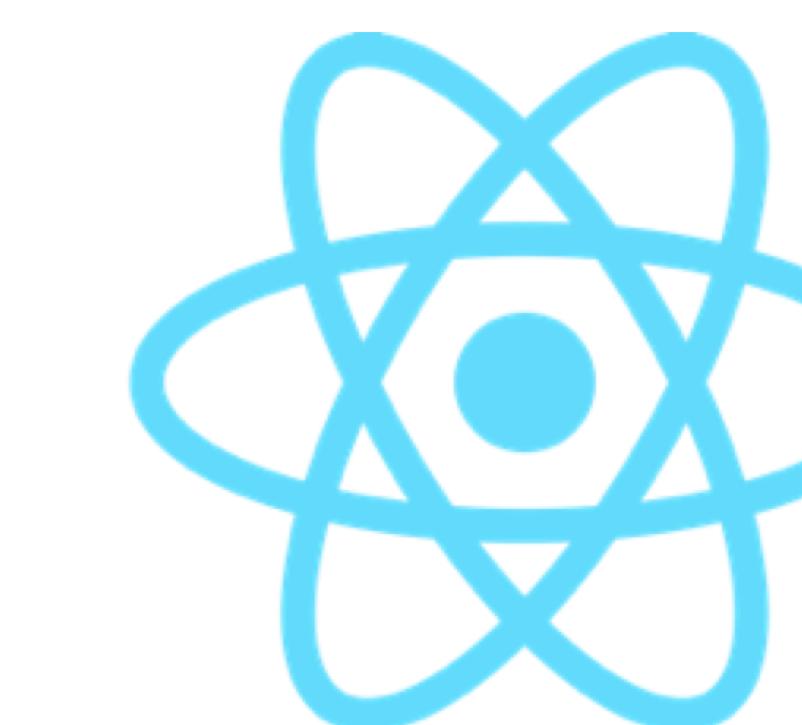
SYSTEM DESIGN



OBJECT DESIGN



IMPLEMENTATION



node.js
express



spaCy

VERIFICATION

- Use synonyms to identify the topic in a student answer
- Compare the topics identified in the student answer to the specified rulebook for the given question.
- Checks grammar, spelling, and any errors in the response.

SUMMARY

StudyBuddy Pro is a legal education platform that helps students succeed in law school by giving them access to resources and essay questions to practice. Students get scores based on how well they answer the questions and receive feedback related to topics in their answer as well as spelling and grammatical errors.

ACKNOWLEDGEMENT

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REFERENCES

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