



Knight Foundation School of Computing & Information Sciences

Sprint 2022 Capstone II

Automated Essay Grading

Student: David Llerena

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

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

PROBLEM

Law students write many essays over the course of their careers. Grading these essays is a very costly and time-consuming task.
StudyBuddy Pro wants to alleviate this issue by creating an Automated Essay Grading system.

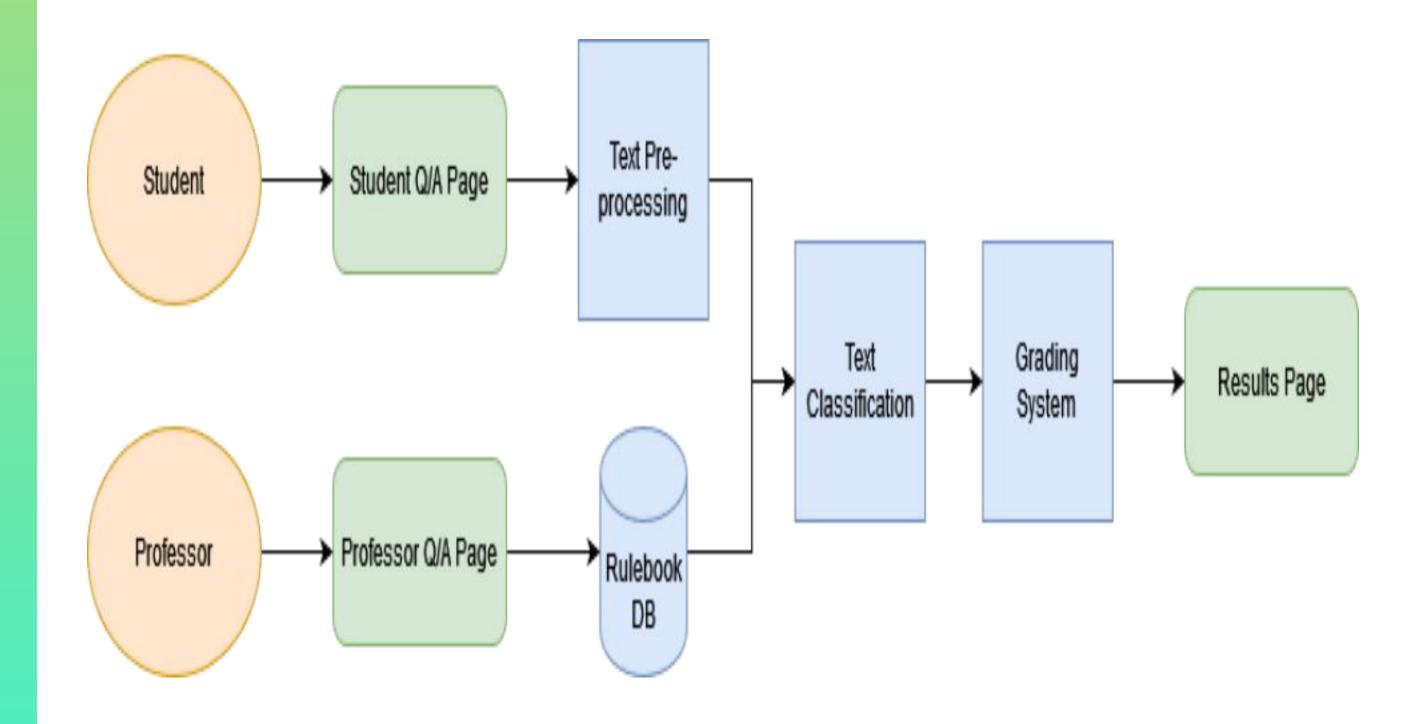
CURRENT SYSTEM

StudyBuddy Pro currently hosts many features which include case briefs, lessons, outlines, courses, quizes, workshops, charts and notes

REQUIREMENTS

- Create an automated grading system which grades and gives feedback on student essay responses based on a rulebook provided by the teacher
- Create a section where a teacher can create a rulebook

SYSTEM DESIGN



OBJECT DESIGN

Darin is experiencing personal financial problems. The amount of income he receives from his corporation is barely sufficient to cover his living expenses, the payments due on his mortgage, various credit-card debts, and some loans that he took out to pay for his son's college tuition. He would like to file for Chapter 7 liquidation just to be rid of the debts entirely, but he knows that he could probably pay them off over a four-year period if he really budgeted and used every cent available to pay his creditors. Darin decides to file for bankruptcy relief under Chapter 7. Are all of Darin's debts dischargeable under Chapter 7, including the debts incurred for his son's education? Given the fact that Darin could foreseeably pay off his debts over a four-year period, will the court allow Darin to obtain relief under Chapter 7? Why or why not?

IMPLEMENTATION







VERIFICATION

System was tested manually to verify accuracy.

- Label parts of student response:
 pass
- Grammar check: pass

SUMMARY

My contribution to the project involved researching and choosing tech stack, implementing a rule-based text-classification algorithm, implementing a grammar checking system, assist in creating rulebook database, coordinating team efforts and updating documents.

REFERENCES

Research materials
 provided by CEO David
 Gray of StudyBuddy Pro

