

## **PROJECT DESCRIPTION**

In this class, one of the main things that we were able to explore is how coding can easily manipulate and process data. With this, we were reminded of all the tedious hours spent making flashcards, searching for sample quizzes online, asking friends for reviewers, and overall finding study materials. Nowadays, there is such a vast network of information and study materials online, making it difficult for people to find materials that actually fit their needs and topics. If I search a topic on Google, around 10,000 results come up, and only a handful of them would probably serve any use to me. Therefore, many people are compelled to resort to tedious options; like having a study buddy quiz them on the material, spending hours writing flashcards individually, or quizzing themselves while closing their eyes from their notes. While all these may seem like the simpler way to do it, it is extremely inefficient and time-consuming.

Inspired, we realized the potential of programming and AI for automating this process. Therefore, we integrated these two into developing a website, “Straight A’s”, that prides in automatically transforming any text into quizzes in seconds. This innovation not only saves the precious time of students, but it also provides them with personalized review materials that are tailored to their specific topics and needs based on the texts that they provide. Moreover, the website also has other features, such as Study Tips and Task Organizer, which are coherent with the whole point of the website – Academic Assistance.

In the Study Tips, we have placed personal study tips from us that we find to be truly effective. This aims to portray the purpose of the page – highlighting the importance of the other sections (the Task Organizer and Quiz Maker), making the whole website cohesive. Moreover, it adds a personal touch to the website and allows us to share tips based on true personal

experience. Then in Task Organizer, it allows users to view, add, update, and edit tasks and their due dates. This allows them to best track their events and requirements.

The heart and soul of Straight A's is the Quiz section. Users input text or topics they want the site to process, and the quiz generator, powered by GPT-3.5-turbo-instruct, creates a quiz tailored to the submitted content. Users are then directed to a quiz page where they answer a mix of subjective and objective questions. To ensure engagement, users cannot proceed to the correct answers unless they have completed all the questions. Once finished, they can compare their answers to the AI-generated ones and manually check their correctness. Finally, users can calculate their score to assess their understanding of the content and are given the option to create another quiz.

Straight A's leverages the power of AI to revolutionize the way students prepare for their studies. By automating the creation of personalized quizzes, providing effective study tips, and helping students organize their tasks, our website offers a comprehensive solution to the common challenges faced by students. This not only saves time but also enhances the efficiency and effectiveness of study sessions.

Looking forward, we envision adding several features to further reinforce effective learning methods for students like us. These features could include the following:

- Adaptive Learning Features - allow users to personalize their learning experience based on what questions they want to answer. Resource recommendations will also be added to aid their comprehension.
- Collaboration tools - Straight A's users can compare and share study materials with peers
- Progress Tracker - dashboard will show the quiz progress of users and their areas of strengths and weaknesses

Through dedication to growth, Straight A's aims to continuously serve the students by helping them in achieving their educational goals with a bit more ease.