Automated Flashcard Generation System

The goal of this project was to automate the creation of flashcards to assist with memorization. Students would upload files to the website, and then copy questions and answers into designated boxes to generate flashcards.

The source documents provided by the students were question banks, consistently formatted in the same way. This uniform format allowed me to develop a pattern that automated the process of filling the flashcards.

To improve the user experience, I created a Google Chrome extension that would automatically activate only on the flashcard website. The extension streamlined the flashcard creation process and included a button to disable it if needed.

Additionally, I accounted for various question types, implementing case scenarios for multiple-choice answers and true/false questions, ensuring the system could effectively handle different question formats.

- A disease process caused by physicians or their treatment is this type of process.
 - a. Idiopathic
 - b. Iatrogenic
 - Neoplasia
 - d. Community acquired



Example of question

```
"content_scripts": [{
 "matches": ["https://app.vaia.com/*"],
 "js": ["script.js"],
 "css": ["main.css"],
 "run_at": "document_end"
 }]
```

```
document.addEventListener('paste', function (event) {
questionsArray.forEach((textElement, index) => {
     setTimeout(function () {
             if (line.startsWith("a.")) {
                line = line.replace("a.", "").trim();
                 answerCount++
                 answerA = line;
             } else if (line.startsWith("b.")) {
                 line = line.replace("b.", "").trim();
                 answerCount++
                answerB = line;
             } else if (line.startsWith("c.")) {
                line = line.replace("c.", "").trim();
                 answerCount++
                answerC = line;
             } else if (line.startsWith("d.")) {
                 line = line.replace("d.", "").trim();
                 answerCount++
                 answerD = line;
             if (line.startsWith("ANS: ")) {
                 answerCorrect = line.replace("ANS: ", "").trim();
         let moreAnswers = document.querySelector('.create-flashcard-more-options-add-answer')
         for (let index = 1; index < answerCount; index++) {</pre>
             moreAnswers.click()
```

When the student pastes a text, I divide the pasted text to place it in the correct fields.