# Conceptual Design

## Functional Decomposition

There are several processes which will need to be accomplished both with and without user input.

1. We will need to capture the users desired inputs and store them, this includes the PDF, epub, word, or text documents of their choosing. If time allows, we would also like to collect the preferred speed and voice of the user and allow the users to input.
2. The document must then be read and stored
3. This file can then be output to the users for editing
4. From the edited text file, the system must then take the text file and convert it to speech and output it in the form of an MP3 file (allow Daisy files output if we have the time) to be downloaded for the user

## Case Diagram

1. 1. Website, css, and html, dropdown to select which input types and a button to submit
   2. Similar to naturalreaders follow along by highlighting text
   3. Similar to apple, long scrolling page – static background
2. 1. (PHP)[spatie/pdf-to-text: Extract text from a pdf (github.com)](https://github.com/spatie/pdf-to-text)
   2. (Python) [Convert PDF to TXT file using Python - AskPython](https://www.askpython.com/python/examples/convert-pdf-to-txt#:~:text=Steps%20to%20Convert%20PDF%20to%20TXT%20in%20Python,IDLE%20and%20press%20keys%20ctrl%20%2B%20N.%20)
   3. (JavaScript) [How to convert PDF to Text (extract text from PDF) with JavaScript | Our Code World](https://ourcodeworld.com/articles/read/405/how-to-convert-pdf-to-text-extract-text-from-pdf-with-javascript#:~:text=How%20to%20convert%20PDF%20to%20Text%20%28extract%20text,4%204.%20Extracting%20text%20from%20multiple%20pages%20)
4. 1. (Node.js)[eheikes/tts: Tools to convert text to speech (github.com)](https://github.com/eheikes/tts)