Meltwater Technical Exercise

The purpose of this assignment is to get a feel for how you approach technical and programming problems. There is no 'right' or 'wrong' answer. Think about the problem and do the best you can, and be prepared to talk about the process you followed and any questions or problems you encountered.

Assignment

You work for the CIA. You are given a software engineering assignment related to processing classified documents.

You are given a task to build a web application to process classified documents (text format) and remove censored text.

Definition:
The application will remove given keywords and phrases from document text and insert XXXX at the locations where the text was removed.

Input parameters:
1. String of keywords and phrases: a string of censored keywords and phrases separated by spaces or commas. Phrases will be enclosed in single or double-quotes. Some examples:

    Hello world "Boston Red Sox"

    'Pepperoni Pizza', 'Cheese Pizza', beer

2. Document text – the original document text that needs the provided keywords and phrases removed (masked out).

Returns:
Document text with indicated keywords and phrases removed and replaced with XXXX.

Please design and build this web application in a way it can be demoed using front-end technologies of your choice and Node if applicable. There is no request to store data, but feel free to if you choose. Be prepared to discuss the design issues and trade-offs you considered.

Assignment Part 2

As an extension, you've been asked to store the documents and make them searchable by the keywords that were redacted from them. Be prepared to discuss how you'd design this system. How would you store the data? How would you make it searchable? How would you expose it to external consumers? *Don't worry about implementing anything for this section.*