USING NLP Technique to generate MCQ from Given Article

*** Automate Assessment Test ***

Step 1: Identify Important Sentence
          Text Summarization
Step 2: WSD(word sense disambiguation) using BERT[encoder]
           Like getting the right sense of what exactly means of a particular word.
Step 3:To Find Distractor(wrong Answer[choice])......WSD
          Using wordnet
Step 4:Generate a question using T5 transformer[enc and dec]
          from the article(sentence) to make a question
          from context and answer to T5 it will generate Question

****Article on **MCQ Genereation**:

https://datasciencemilan.medium.com/question-generation-using-nlp-95e21a42b51e

****MCQ GENERATOR YOUTUBE DEMO LINK:

https://www.youtube.com/watch?v=x08SqsVfgmQ&t=272s

**** MCQ GENERATOR WEB DEMO LINK:
1) https://app.quillionz.com/Question/Index/
2) https://questgen.ai/

**** MCQ GENERATE GITHUB LINK:
 1) https://github.com/Kunal-Varma/MCQ-generator-using-AI
 2) https://github.com/KristiyanVachev/Question-Generation
 3) https://github.com/ramsrigouthamg/BERT_generate_grammar_MCQ_from_news_article

General idea

The idea is to generate multiple choice answers from text, by splitting this complex problem to simpler steps:

1. Identify keywords from the text and use them as answers to the questions.

2. Replace the answer from the sentence with *blank space* and use it as the base for the question.

3. Transform the sentence with a blank space for answer to a more *question-like sentence*.

4. Generate distractors, words that are similar to the answer, as *incorrect answers*.

1. Plain text

Oxygen is a chemical element with symbol O and atomic number 8. It is a member of the chalcogen group on the periodic table, a highly reactive nonmetal, and an oxidizing agent that readily forms oxides with most elements as well as with other compounds. By mass, oxygen is the third-most abundant element in the universe, after hydrogen and helium.