test_wordprocessing.py

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import unittest

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import json
from wordprocessing import keyword_extractor, duplicate_word_removal, merge_slide_with_same_headers, \
merge_slide_with_same_slide_number, extract_noun_chunks, construct_search_query

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Tests the keyword extractor method

Tests the duplicate word removal method

Tests the merge slide with same header method

Tests the merge_slide_with_same_slide_number method

```
class TestWordProcessing(unittest.TestCase):
    def setUp(self) -> None:
    def test_keyword_extractor(self):
         data = [{"Header": "This is a Header", "Paragraph": "This is a Paragraph", "slide": 10}]
keywords = keyword_extractor(data)
          data[0]["Header_keywords"] = ["header"]
data[0]["Paragraph_keywords"] = ["paragraph"]
          self.assertEqual(keywords, data)
    def test_duplicate_word_removal(self):
         data = [{"Header": "This is a Header, and this is a Header", "Paragraph": "This is a Paragraph, and this is a "
                        'Header_keywords": ["header", "header"],
                       "Paragraph keywords": ["paragraph", "paragraph"], "slide": 10}]
           remove_duplicates = duplicate_word_removal(data)
          data[0]["Header_keywords"] = ["header"]
data[0]["Paragraph_keywords"] = ["paragraph"]
           self.assertEqual(data, remove_duplicates)
     def test merge slide with same header(self):
         "Paragraph_keywords": ["paragraph", "two"], "slide": 11}]
merged_data = merge_slide_with_same_headers(data)
data[0]["slides"] = [10, 11]
data[0]["Paragraph_keywords"] = ["paragraph", "one", "paragraph", "two"]
data[0].pop("Paragraph", None)
data[0].pop("slide", None)
          data.pop()
           self.assertEqual(data, merged data)
     def test merge slide with same slide number(self):
          input data = [{'Header': 'Dimensionality Reduction PCA',
                             'Paragraph': 'This is paragraph l',

'Stide': 8, 'Header Keywords': ['dimensionality', 'reduction', 'pca'],

'Paragraph keywords': ['dimensionality', 'reduction', 'purposes']},

{'Header': 'Gratuitous ARP',
                            {'Header': 'Gratuitous ARP',
   'Paragraph': 'This is paragraph 2',
   'slide': 9, 'Header_Keywords': ['arp'],
   'Paragraph_keywords': ['machine', 'mapping', 'arp', 'caches']},
   {'Header': 'Dimensionality Reduction PCA',
   'Paragraph': 'This is paragraph 3',
   'slide': 9, 'Header_keywords': ['dimensionality', 'reduction', 'pca'],
   'Paragraph_keywords': ['goal', 'projection']}]
          merged_data = merge_slide_with_same_slide_number(input_data)
         self.assertEqual(output_data, merged_data)
            ''Test the extract_noun_chunks method''
          input_data = [{"Header": "This is a noun chunk", "Paragraph": "This is a noun chunk", "slide":1}]
noun_chunks_result = extract_noun_chunks(input_data)
          output data = [{'Header': 'This is a noun chunk', 'Paragraph': 'This is a noun chunk', 'slide': 1, 'Header keywords': ['noun c
          self.assertEqual(output data, noun chunks result)
    def test construct search query(self):
            ''Test the search query method
          with open("code/data/Test 3.json", mode="r") as file:
          input_data = json.load(file)
with open("code/data/Test_3_Resu
                                                    ,
ult.json", mode="r") as file:
               output_data = json.load(file)
         search_query = construct_search_query(input_data)
```

self.assertEqual(output_data, search_query)

if __name__ == "__main__":
 unittest.main()