

```

1 # Appendix C14 - test_doc_operator.py
2
3 from klassify.src.doc_operator import DocumentOperator
4 from klassify.src.db_handler import DBHandler
5 from klassify.src.tables import Document, Subtopic, Topic
6 import os
7 import pytest
8
9 database_name = "test_klassify"
10 if os.path.exists("%s.db" % database_name):
11     os.remove("%s.db" % database_name)
12
13 def test_docs_with_labels():
14     document_1 = Document(title="Test title 1",
15                           base_path="/test-1",
16                           content="This is a test document - one")
17     document_2 = Document(title="Test title 2",
18                           base_path="/test-2",
19                           content="This is a test document - two")
20
21     topic_1 = Topic(
22         title='Label 1',
23         base_path='/topic/working-sea',
24         description='List of information about Topic.'
25     )
26     topic_2 = Topic(
27         title='Label 2',
28         base_path='/topic/working-sea-2',
29         description='List of information about Topic. 2'
30     )
31
32     subtopic_1 = Subtopic(
33         title='Subtopic',
34         base_path='/topic/working-sea',
35         description='List of information about Subtopic.'
36     )
37     subtopic_2 = Subtopic(
38         title='Subtopic 2',
39         base_path='/topic/working-sea-2',
40         description='List of information about Subtopic. 2'
41     )
42
43     topic_1.subtopics = [subtopic_1]
44     topic_2.subtopics = [subtopic_2]
45     subtopic_1.documents = [document_1]
46     subtopic_2.documents = [document_2]
47
48     DBH = DBHandler(db_name=database_name, echo=False)
49     session = DBH.session
50     session.add_all([topic_1, topic_2, subtopic_1, subtopic_2, document_1, document_2])
51     session.commit()
52
53     doc_op = DocumentOperator(db_name = database_name)
54
55     docs_with_labels = doc_op.docs_with_labels
56     first_set = docs_with_labels[0]
57     second_set = docs_with_labels[1]
58
59     assert [document_1.title, [topic_1.title]] in [[first_set[0].title, first_set[1]], [s
60     econd_set[0].title, second_set[1]]]
61     assert [document_2.title, [topic_2.title]] in [[first_set[0].title, first_set[1]], [s
62     econd_set[0].title, second_set[1]]]
63
64

```