Nhóm 23

Đề tài: Phát triển service xử lý và lưu trữ video

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Milestone 4

Task 2: Xây dựng test case và tiến hành test cho chức năng tạo project (p1)

1. Kiểm tra upload video thành công

@pytest.mark.parametrize('filestreams', [('sample\_0.mp4',)], indirect=True)

def test\_upload\_project\_success(test\_app, client, filestreams):

mp4\_stream = filestreams[0]

filename = 'sample\_0.mp4'

with test\_app.test\_request\_context():

url = url\_for('projects.list\_upload\_project')

resp = client.post(

url,

data={

'file': (BytesIO(mp4\_stream), filename)

},

content\_type='multipart/form-data'

)

resp\_data = json.loads(resp.data)

assert resp.status == '201 CREATED'

assert '\_id' in resp\_data

assert 'filename' in resp\_data

assert 'storage\_id' in resp\_data

assert 'create\_time' in resp\_data

assert resp\_data['mime\_type'] == 'video/mp4'

assert resp\_data['request\_address'] == '127.0.0.1'

assert resp\_data['original\_filename'] == filename

assert resp\_data['version'] == 1

assert resp\_data['parent'] is None

assert resp\_data['processing'] == {'video': False, 'thumbnail\_preview': False, 'thumbnails\_timeline': False}

assert resp\_data['thumbnails'] == {'timeline': [], 'preview': {}}

assert resp\_data['url'] == url\_for('projects.get\_raw\_video', project\_id=resp\_data["\_id"], \_external=True)

1. Kiểm tra upload video sai codec

@pytest.mark.parametrize('filestreams', [('sample\_0.jpg',)], indirect=True)

def test\_upload\_project\_wrong\_codec(test\_app, client, filestreams):

jpg\_stream = filestreams[0]

filename = 'sample\_0.jpg'

with test\_app.test\_request\_context():

url = url\_for('projects.list\_upload\_project')

resp = client.post(

url,

data={

'file': (BytesIO(jpg\_stream), filename)

},

content\_type='multipart/form-data'

)

resp\_data = json.loads(resp.data)

assert resp.status == '400 BAD REQUEST'

assert resp\_data['file'] == ["Codec: 'mjpeg' is not supported."]

1. Kiểm tra upload video sai request

@pytest.mark.parametrize('filestreams', [('sample\_0.mp4',)], indirect=True)

def test\_upload\_project\_bad\_request(test\_app, client, filestreams):

mp4\_stream = filestreams[0]

filename = 'sample\_0.mp4'

with test\_app.test\_request\_context():

url = url\_for('projects.list\_upload\_project')

resp = client.post(

url,

data={

'files': (BytesIO(mp4\_stream), filename)

},

content\_type='multipart/form-data'

)

resp\_data = json.loads(resp.data)

assert resp.status == '400 BAD REQUEST'

assert resp\_data == {'file': ['required field']}

1. Kiểm tra upload video sai nội dung

@pytest.mark.parametrize('filestreams', [('sample\_0.mp4',)], indirect=True)

def test\_upload\_project\_wrong\_contenttype(test\_app, client, filestreams):

mp4\_stream = filestreams[0]

filename = 'sample\_0.mp4'

with test\_app.test\_request\_context():

url = url\_for('projects.list\_upload\_project')

resp = client.post(

url,

data={

'file': (BytesIO(mp4\_stream), filename)

},

content\_type='application/json'

)

resp\_data = json.loads(resp.data)

assert resp.status == '400 BAD REQUEST'

assert resp\_data == {'file': ['required field']}