

2023

SOFTWARE ENGINEERING PROJECT

MILESTONE 5 TEST CASES



PRESENTED BY TEAM: SE-SEPT-04

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API Endpoint being tested: http://127.0.0.1:8000/api/register

Inputs:

- Request Method: POST
- JSON: {"username": "string", "name": "string", "password": "string", "gender": 0, "primary_email": "string"}

Expected Output:

- HTTP Status Code: 201
- JSON: {"Successfully Registered!"}

Actual Output:

- HTTP Status Code: 201
- JSON: {"Successfully Registered!"}

Result: Success

API Endpoint being tested: http://127.0.0.1:8000/api/login

Inputs:

- Request Method: POST
- JSON: {"email": "dummy@gmail.com", "password": "string"}

Expected Output:

- HTTP Status Code: 200
- JSON: {"id": 1, "token": "some string"}

Actual Output:

- HTTP Status Code: 200
- JSON: {"id": 1, "token":

"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJlbWFpbCI6IjIxZjEwMDM3NThAZHMuc3R1ZHkuaWl0bS5hYy5pbiIsImV4cGlyZXMiOjE3MDE4ODUxNTUuMjE3NzMwNX0._Ht0U-TXm1t1qGE2ICwnuAUOfodbKx00n5HPUHhCGBA"}

Result: Success

API Endpoint being tested: http://127.0.0.1:8000/api/forget-password

```
def test_user_forget_password_get_valid_data():
    endpoint = f"{user_forget_password_endpoint}?email={valid_email}"
    header = {"Content-Type": "application/json"}
    response = client.get(endpoint, headers=header)
    assert response.status_code == 200
    assert response.json()
```

Inputs:

- Request Method: GET

JSON: {"email": "dummy@gmail.com"}

Expected Output:

- HTTP Status Code: 200

- JSON: {true}

Actual Output:

- HTTP Status Code: 200

- JSON: {true}

Result: Success

API Endpoint being tested: http://127.0.0.1:8000/api/forget-password

Inputs:

- Request Method: PUT
- JSON: {"email": "dummy@gmail.com", "new_password": "random_password"}

Expected Output:

- HTTP Status Code: 202
- JSON: {"Successfully Changed!"}

Actual Output:

- HTTP Status Code: 202
- JSON: {"Successfully Changed!"}

Result: Success

Pytest Outputs for the above endpoints

API Endpoint being tested: http://127.0.0.1:8000/api/profile/{user_id}

Request Method: GET

```
def test_get_valid_user_data():
    header = {"token": get_token(), "Content-Type": "application/json"}
    response = client.get(f"{user_profile_endpoint}/{valid_user_id}", headers=header)
    assert response.status_code == 200
    assert response.json()['username'] is not None
    assert response.json()['name'] is not None
    assert response.json()['primary_email'] is not None
    assert response.json()['profile_pic'] is not None
```

API Endpoint being tested: http://127.0.0.1:8000/api/logout

Request Method: POST

```
def test_valid_user_logout():
    header = {"token": get_token(), "Content-Type": "application/json"}
    response = client.get(user_logout_endpoint, headers=header)
    assert response.status_code == 200
    assert response.json() == "Successfully logged out!"
```

API Endpoint being tested: http://127.0.0.1:8000/api/courses

Request Method: GET

```
def test_get_all_courses():
    header = {"Content-Type": "application/json"}
    response = client.get(courses_endpoint, headers=header)
    assert response.status_code == 200
    assert response.json() is not []
```

http://127.0.0.1:8000/api/courses/{course id}

Request Method: GET

```
def test_get_valid_course():
    header = {"Content-Type": "application/json"}
    response = client.get(f"{courses_endpoint}/{valid_course_id}", headers=header)
    assert response.status_code == 200
    assert response.json()['name'] != ""
    assert response.json()['course_id'] != ""
```

API Endpoint being tested:

http://127.0.0.1:8000/api/courses/{course_id}

Request Method: PUT

```
def test_update_valid_course():
    input_data = {
        "course_id": "string",
        "name": "string",
        "description": "string",
        "duration": 0,
        "course_credit": 0,
        "is_project": True,
        "status": True,
        "level": 0
    }
    header = {"token": get_token(), "Content-Type": "application/json"}
    response = client.put(f"{courses_endpoint}/{valid_course_id}", headers=header)
    assert response.status_code == 202
    assert response.json() == "Course details updated successfully!"
```

API Endpoint being tested: http://127.0.0.1:8000/api/admin/students

Request Method: GET

```
def test_get_all_students_details():
    header = {"token": get_token(), "Content-Type": "application/json"}
    response = client.get(all_students_endpoint, headers=header)
    assert response.status_code == 200
    assert response.json() != []
```

http://127.0.0.1:8000/api/admin/students/{roll}

Request Method: GET

```
def test_get_student_details():
    header = {"token": get_token(), "Content-Type": "application/json"}
    response = client.get(specific_student_endpoint, headers=header)
    assert response.status_code == 200
    assert response.json()['name'] != ""
    assert response.json()['roll'] != ""
    assert response.json()['level'] != ""
    assert response.json()['status'] is not None
```

API Endpoint being tested:

http://127.0.0.1:8000/api/admin/students-graph-data

Request Method: GET

```
def test_get_students_graph_data():
    header = {"token": get_token(), "Content-Type": "application/json"}
    response = client.get(students_graph_endpoint, headers=header)
    assert response.status_code == 200
```

API Endpoint being tested:

http://127.0.0.1:8000/api/admin/course-graph-data

Request Method: GET

```
def test_get_courses_graph_data():
    header = {"token": get_token(), "Content-Type": "application/json"}
    response = client.get(courses_graph_endpoint, headers=header)
    assert response.status_code == 200
```

http://127.0.0.1:8000/api/advisor/recommendation-paths

Request Method: GET

```
def test_get_all_recommendation_paths():
    header = {"token": get_token(), "Content-Type": "application/json"}
    response = client.get(all_recommendation_paths_endpoint, headers=header)
    assert response.status_code == 200
```

API Endpoint being tested:

http://127.0.0.1:8000/api/advisor/recommendation-path/{path_id}

Request Method: POST

API Endpoint being tested:

http://127.0.0.1:8000/api/recommendation-path

Request Method: POST

http://127.0.0.1:8000/api/recommendation-paths/status

Request Method: GET

```
def test_get_recommendation_paths_status():
    header = {"token": get_token(), "Content-Type": "application/json"}
    response = client.get(recommendation_path_status_endpoint, headers=header)
    assert response.status_code == 200
```

API Endpoint being tested:

http://127.0.0.1:8000/api/feedback/{course_id}

Request Method: POST