

Integration Test passed

```
import pytest
from user_model import UserModel
from cognitive_test import CognitiveTest
from genetic_data import GeneticData
from lifestyle_data import LifestyleData

@pytest.fixture
def setup_user():
    # Create a UserModel instance and register a user
    user = UserModel(
        username="jdoe", # Added username field
        name="Jane Doe",
        password="securepassword", # Assuming password is set during registration
        email="jdoe@example.com", # Added email field
        contact_info="123-456-7890",
        date_of_birth="1980-01-01",
        gender="F"
    )
    user.register() # Register the user in the database
    return user

def test_user_integration(setup_user):
    user = setup_user

    # Test cognitive test submission
    cognitive_test = CognitiveTest(test_type="Memory Test", user_id=user.user_id)
    cognitive_test.administer_test()
    user.submit_cognitive_test(cognitive_test)

    # Verify that the cognitive test was submitted
    results = user.view_results()
    assert len(results["cognitive_tests"]) == 1 # Ensure one cognitive test is recorded

    # Test genetic data submission
    genetic_data = GeneticData(user_id=user.user_id)
    genetic_data.collect_data()
    user.submit_genetic_data(genetic_data)

    # Verify that genetic data was submitted
    results = user.view_results()
    assert len(results["genetic_data"]) == 1 # Ensure one genetic data entry is recorded

    # Test lifestyle data submission
    lifestyle_data = LifestyleData(user_id=user.user_id)
    lifestyle_data.collect_data()
    user.submit_lifestyle_data(lifestyle_data)

    # Verify that lifestyle data was submitted
    results = user.view_results()
    assert len(results["lifestyle_data"]) == 1 # Ensure one lifestyle data entry is
    recorded

def test_fetch_all_users():
    users = UserModel.fetch_all_users()
    assert isinstance(users, list) # Ensure the result is a list
    assert len(users) > 0 #
```

Integration Test

```
emdrone@Musvair2: ~/2ADTS_modules$ pytest test_integration.py
===== test session starts =====
platform linux -- Python 3.8.8, pytest-6.2.3, py-1.10.0, pluggy-0.13.1
rootdir: /home/emdrone/2ADTS_modules
plugins: anyio-2.2.0
collected 2 items

test_integration.py .. [100%]
===== 2 passed in 0.25s =====
(base) emdrone@Musvair2:~/2ADTS_modules$
```