

NEIS API 연동 및 테스트 결과 보고서

Section: School Search

```
[  
  {  
    "atpt_code": "B10",  
    "sd_code": "7091427",  
    "name": "대치중학교",  
    "school_type": "middle",  
    "address": "서울특별시 강남구 남부순환로378길 39"  
  },  
  {  
    "atpt_code": "B10",  
    "sd_code": "7091380",  
    "name": "서울대치초등학교",  
    "school_type": "elementary",  
    "address": "서울특별시 강남구 양재천로 363"  
  }  
]
```

Section: School List

```
[  
  {  
    "id": 1,  
    "name": "대치고등학교",  
    "atpt_code": "B10",  
    "sd_code": "7010057",  
    "school_type": "high",  
    "color": "#f97316",  
    "enabled": true,  
    "last_sync_at": "2026-02-08T23:01:33.289937",  
    "created_at": "2026-02-06 00:48:28",  
    "event_count": 130  
  }  
]
```

Section: Calendar

```
{  
  "year": 2025,  
  "month": 3,  
  "events": [  
    {  
      "id": 1,  
      "school_id": 1,  
      "school_name": "대치고등학교",  
      "school_color": "#f97316",  
      "date": "2025-03-01",  
      "end_date": null,  
      "title": "토요휴업일",  
      "category": "other",  
      "source": "neis"  
    },  
    {  
      "id": 2,
```

```
"school_id": 1,
"school_name": "대치고등학교",
"school_color": "#f97316",
"date": "2025-03-03",
"end_date": null,
"title": "대체공휴일",
"category": "holiday",
"source": "neis"
},
{
"id": 3,
"school_id": 1,
"school_name": "대치고등학교",
"school_color": "#f97316",
"date": "2025-03-04",
"end_date": null,
"title": "입학식",
"category": "event",
"source": "neis"
},
{
"id": 4,
"school_id": 1,
"school_name": "대치고등학교",
"school_color": "#f97316",
"date": "2025-03-04",
"end_date": null,
"title": "개학식",
"category": "vacation",
"source": "neis"
},
{
"id": 5,
"school_id": 1,
"school_name": "대치고등학교",
"school_color": "#f97316",
"date": "2025-03-08",
"end_date": null,
"title": "토요휴업일",
"category": "other",
"source": "neis"
},
{
"id": 6,
"school_id": 1,
"school_name": "대치고등학교",
"school_color": "#f97316",
"date": "2025-03-15",
"end_date": null,
"title": "토요휴업일",
"category": "other",
"source": "neis"
},
{
"id": 7,
"school_id": 1,
"school_name": "대치고등학교",
"school_color": "#f97316",
```

```

        "date": "2025-03-22",
        "end_date": null,
        "title": "토요휴업일",
        "category": "other",
        "source": "neis"
    },
    {
        "id": 8,
        "school_id": 1,
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2025-03-29",
        "end_date": null,
        "title": "토요휴업일",
        "category": "other",
        "source": "neis"
    }
],
"exam_periods": []
}

```

Section: Holidays

```
[
{
    "id": 2,
    "school_id": 1,
    "school_name": "대치고등학교",
    "school_color": "#f97316",
    "date": "2025-03-03",
    "end_date": null,
    "title": "대체공휴일",
    "category": "holiday",
    "source": "neis"
},
{
    "id": 15,
    "school_id": 1,
    "school_name": "대치고등학교",
    "school_color": "#f97316",
    "date": "2025-05-05",
    "end_date": null,
    "title": "어린이날",
    "category": "holiday",
    "source": "neis"
},
{
    "id": 16,
    "school_id": 1,
    "school_name": "대치고등학교",
    "school_color": "#f97316",
    "date": "2025-05-06",
    "end_date": null,
    "title": "대체공휴일",
    "category": "holiday",
    "source": "neis"
}
]
```

```
{  
    "id": 21,  
    "school_id": 1,  
    "school_name": "대치고등학교",  
    "school_color": "#f97316",  
    "date": "2025-06-03",  
    "end_date": null,  
    "title": "대통령 선거일",  
    "category": "holiday",  
    "source": "neis"  
},  
{  
    "id": 22,  
    "school_id": 1,  
    "school_name": "대치고등학교",  

```

```
"school_name": "대치고등학교",
"school_color": "#f97316",
"date": "2025-10-07",
"end_date": null,
"title": "추석연휴",
"category": "holiday",
"source": "neis"
},
{
"id": 62,
"school_id": 1,
"school_name": "대치고등학교",
"school_color": "#f97316",
"date": "2025-10-08",
"end_date": null,
"title": "대체공휴일",
"category": "holiday",
"source": "neis"
},
{
"id": 63,
"school_id": 1,
"school_name": "대치고등학교",
"school_color": "#f97316",
"date": "2025-10-09",
"end_date": null,
"title": "한글날",
"category": "holiday",
"source": "neis"
},
{
"id": 81,
"school_id": 1,
"school_name": "대치고등학교",
"school_color": "#f97316",
"date": "2025-12-25",
"end_date": null,
"title": "성탄절",
"category": "holiday",
"source": "neis"
},
{
"id": 83,
"school_id": 1,
"school_name": "대치고등학교",
"school_color": "#f97316",
"date": "2026-01-01",
"end_date": null,
"title": "신정",
"category": "holiday",
"source": "neis"
},
{
"id": 119,
"school_id": 1,
"school_name": "대치고등학교",
"school_color": "#f97316",
"date": "2026-02-16",
```

```

        "end_date": null,
        "title": "설날연휴",
        "category": "holiday",
        "source": "neis"
    },
    {
        "id": 120,
        "school_id": 1,
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2026-02-17",
        "end_date": null,
        "title": "설날연휴",
        "category": "holiday",
        "source": "neis"
    },
    {
        "id": 121,
        "school_id": 1,
        "school_name": "대치고등학교",
        "school_color": "#f97316",
        "date": "2026-02-18",
        "end_date": null,
        "title": "설날연휴",
        "category": "holiday",
        "source": "neis"
    }
]

```

Section: Test Results

```

=====
test session starts =====
platform linux -- Python 3.10.12, pytest-9.0.2, pluggy-1.6.0 -- /mnt/d/progress/mathesis/node15_school_calendar/backend/ve
cachedir: .pytest_cache
rootdir: /mnt/d/progress/mathesis/node15_school_calendar/backend
configfile: pytest.ini
plugins: anyio-4.12.1, asyncio-1.3.0, bdd-8.1.0, cov-7.0.0
asyncio: mode=auto, debug=False, asyncio_default_fixture_loop_scope=None, asyncio_default_test_loop_scope=function
collecting ... collected 17 items

tests/test_neis_client.py::test_학교명_검색_성공 PASSED [ 5%]
tests/test_neis_client.py::test_짧은_키워드_검색 PASSED [ 11%]
tests/test_neis_client.py::test_존재하지_않는_학교_검색 PASSED [ 17%]
tests/test_neis_client.py::test_학사일정_조회_성공 PASSED [ 23%]
tests/test_neis_client.py::test_이벤트_카테고리_자동_분류 PASSED [ 29%]
tests/test_neis_client.py::test_날짜_포맷_변환 PASSED [ 35%]
tests/test_schedule_sync.py::test_단일_학교_일정_동기화 PASSED [ 41%]
tests/test_schedule_sync.py::test_동기화_후_일정_조회 PASSED [ 47%]
tests/test_schedule_sync.py::test_캘린더_뷰_데이터_조회 PASSED [ 52%]
tests/test_schedule_sync.py::test_카테고리별_일정_필터링 PASSED [ 58%]
tests/test_schedule_sync.py::test_존재하지_않는_학교_동기화_시도 PASSED [ 64%]
tests/test_school_management.py::test_neis에서_학교_검색 PASSED [ 70%]
tests/test_school_management.py::test_학교_등록 PASSED [ 76%]
tests/test_school_management.py::test_중복_학교_등록_방지 PASSED [ 82%]
tests/test_school_management.py::test_학교_목록_조회 PASSED [ 88%]
tests/test_school_management.py::test_학교_정보_수정 PASSED [ 94%]
tests/test_school_management.py::test_학교_삭제 PASSED [100%]

```

```
===== warnings summary =====
```

```
main.py:23
```

```
/mnt/d/progress/mathesis/node15_school_calendar/backend/main.py:23: DeprecationWarning:  
on_event is deprecated, use lifespan event handlers instead.
```

Read more about it in the

[FastAPI docs for Lifespan Events](<https://fastapi.tiangolo.com/advanced/events/>).

```
@app.on_event("startup")
```

```
venv/lib/python3.10/site-packages/fastapi/applications.py:4495
```

```
/mnt/d/progress/mathesis/node15_school_calendar/backend/venv/lib/python3.10/site-packages/fastapi/applications.py:4495  
on_event is deprecated, use lifespan event handlers instead.
```

Read more about it in the

[FastAPI docs for Lifespan Events](<https://fastapi.tiangolo.com/advanced/events/>).

```
return self.router.on_event(event_type)
```

```
-- Docs: https://docs.pytest.org/en/stable/how-to/capture-warnings.html
```

```
===== tests coverage =====
```

```
_____ coverage: platform linux, python 3.10.12-final-0 _____
```

Name	Stmts	Miss	Cover	Missing
------	-------	------	-------	---------

database/__init__.py	0	0	100%	
database/connection.py	18	0	100%	
models/__init__.py	0	0	100%	
models/schemas.py	58	0	100%	
routers/__init__.py	0	0	100%	
routers/schedules.py	101	29	71%	30-34, 37-38, 41-42, 73, 106-109, 115-119, 209-222
routers/schools.py	71	10	86%	56-57, 62-63, 66-75, 89, 101
services/__init__.py	0	0	100%	
services/neis_client.py	70	16	77%	11-12, 24, 37-42, 54-55, 91-92, 97, 99-100
TOTAL	318	55	83%	

```
===== 17 passed, 2 warnings in 10.38s =====
```