

# 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": "토요일휴업일",
      "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": "토요일휴업일",
  "category": "other",
  "source": "neis"
},
{
  "id": 6,
  "school_id": 1,
  "school_name": "대치고등학교",
  "school_color": "#f97316",
  "date": "2025-03-15",
  "end_date": null,
  "title": "토요일휴업일",
  "category": "other",
  "source": "neis"
},
{
  "id": 7,
  "school_id": 1,
  "school_name": "대치고등학교",
  "school_color": "#f97316",
```

```

      "date": "2025-03-22",
      "end_date": null,
      "title": "토요일휴업일",
      "category": "other",
      "source": "neis"
    },
    {
      "id": 8,
      "school_id": 1,
      "school_name": "대치고등학교",
      "school_color": "#f97316",
      "date": "2025-03-29",
      "end_date": null,
      "title": "토요일휴업일",
      "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_color": "#f97316",
  "date": "2025-06-06",
  "end_date": null,
  "title": "현충일",
  "category": "holiday",
  "source": "neis"
},
{
  "id": 50,
  "school_id": 1,
  "school_name": "대치고등학교",
  "school_color": "#f97316",
  "date": "2025-08-15",
  "end_date": null,
  "title": "광복절",
  "category": "holiday",
  "source": "neis"
},
{
  "id": 58,
  "school_id": 1,
  "school_name": "대치고등학교",
  "school_color": "#f97316",
  "date": "2025-10-03",
  "end_date": null,
  "title": "개천절",
  "category": "holiday",
  "source": "neis"
},
{
  "id": 60,
  "school_id": 1,
  "school_name": "대치고등학교",
  "school_color": "#f97316",
  "date": "2025-10-06",
  "end_date": null,
  "title": "추석",
  "category": "holiday",
  "source": "neis"
},
{
  "id": 61,
  "school_id": 1,
```

```
"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/venv/bin/python  
 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 =====