프론트엔드의 래먼데이터 API 활용

backend 서버 start

- lahmansbaseballdb.sqlite가 있는 폴더 열기 (VsCode-File-Open Folder)
- mlb_crud.py 생성

```
from sqlalchemy import create_engine, text
SQLALCHEMY_DATABASE_URL = "sqlite:///./lahmansbaseballdb.sqlite"
engine = create_engine(
    SQLALCHEMY DATABASE URL
)
def read_player_batting_data(playerID: str):
    with engine.connect() as conn:
        rows = conn.execute(
            text("select * from batting where playerID = :playerID"),
            {'playerID': playerID}
        )
    columns = rows.keys()
    data = []
    for row in rows:
        data_dict = {column: row[idx] for idx, column in enumerate(columns)}
        data.append(data dict)
    return data
def read_player_pitching_data(playerID: str, yearID: str):
    with engine.connect() as conn:
        rows = conn.execute(text("select * from pitching where playerID =
:playerID AND yearID = :yearID"), {'playerID': playerID, 'yearID': yearID})
    columns = rows.keys()
    data = []
    for row in rows:
        data_dict = {column: row[idx] for idx, column in enumerate(columns)}
        data.append(data_dict)
    return data
```

```
def read_player_info(playerID: str):
    with engine.connect() as conn:
        rows = conn.execute(text("select * from people where playerID =
    :playerID"), {'playerID': playerID})

    columns = rows.keys()

    data = []
    for row in rows:
        data_dict = {column: row[idx] for idx, column in enumerate(columns)}
        data.append(data_dict)

    return data
```

• mlb_api.py 생성

```
from fastapi import FastAPI, Body
from fastapi.middleware.cors import CORSMiddleware # 14_프론트엔드_래먼데이터
_API_활용 추가
import mlb crud
app = FastAPI(title="레먼데이터베이스 API")
# 14_프론트엔드_래먼데이터_API_활용 추가
app.add_middleware(
   CORSMiddleware,
   allow_origins=["*"],
   allow credentials=True,
   allow methods=["*"],
   allow_headers=["*"]
)
@app.get("/players/{playerID}") # 경로 매개변수 활용 예시
def player_info_route(playerID: str):
   return crud.read_player_info(playerID)
@app.get("/batting") # 쿼리 매개변수 활용 예시
def batting_route(playerID: str):
   return crud.read_player_batting_data(playerID)
@app.post("/pitching") # Request Body 활용 예시
def pitching_route(
   playerID: str = Body(...),
   season: int = Body(...)
):
   return crud.read_player_pitching_data(playerID, season)
```

• 실행

○ 윈도우

```
call .venv/Scripts/activate
uvicorn mlb_api:app --host 0.0.0.0 --port 8999 --reload
```

MacOS

```
source .venv/bin/activate
uvicorn mlb_api:app --host 0.0.0.0 --port 8999 --reload
```

frontend 류현진 데이터 목록 조회

GET : https://kusf-api.run.goorm.site/pitching/seasons?playerID=ryuhy01&start_year=2010&end_year=2020 vscode 실행

front.html 작성

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
   <script src="https://code.jquery.com/jquery-3.7.0.min.js" integrity="sha256-</pre>
2Pmvv0kuTBOenSvLm6bvfBSSHrUJ+3A7x6P5Ebd07/g=" crossorigin="anonymous"></script>
</head>
<script>
   //모든 html이 로딩 되었을 때, 실행
   $(function() {
       getPlayerInfo();
   });
   function getPlayerInfo() {
       $.ajax ({
           url : "http://localhost:8999/players/ryuhy01",
// 요청이 전송될 URL 주소
           type : "GET",
                                                     // http 요청 방식
(default: 'GET')
                                                    // 요청 시 포함되어질 데이터
           //data : {key : value},
           success : function(data, status, xhr) {
                                                    // 정상적으로 응답 받았을 경
우에는 success 콜백이 호출되게 됩니다.
```

```
console.log(data);
               $("#playerInfo").text(JSON.stringify(data));
               /*
               JSON.stringify : javascript 객체를 JSON 문자열로 변환
               JSON.parse : JSON 문자열을 javascript 객체로 변환
           },
           error : function(xhr, status, error) { // 서버에서 error가 생겼을
때 호출됩니다.
               console.log(xhr);
           },
       });
   }
</script>
<body>
   <div id="playerInfo">
   </div>
</body>
</html>
```

결과

[("playerID":"ryuhy01","birthYear":1987,"birthMonth":3,"birthDay":25,"birthCountry":"South

Korea","birthState":"Incheon","birthCity:"Incheon","deathWear":null,"deathMonth":null,"deathDay":null,"deathCountry":null,"deathState":null,"deathCity":null,"nameFirst":"HyunJin","nameAst":"Ryu","nameGiven":"Hyun-Jin","weight":255,"height":75,"bats": R","throws:"L","debut":"2013-04-02","finalGame":"2019-09-28","retroID":"ryu-h001","bbrefID":"ryuhy01","birth_date":"1987-0325","debut_date":"2013-04-02","finalGame_date":2019-09-28","death_date":null)]