

1. json-server 개요

❖ json-server란?

- json 파일을 이용해 간단한 REST API Server를 생성해주는 도구
- 주로 백엔드를 Mockup 하기 위한 도구. 테스트 서버로 사용

❖ 설치 방법

- 두가지 방법
 - 전역 설치
 - `npm install -g json-server`
 - 로컬 설치
 - `npm install json-server -D`
- 실행 방법
 - db.json을 생성해 샘플 데이터를 추가
 - `npx json-server --watch db.json`

2. db.json 생성

❖ db.json

```
{
  "contacts": [
    { "name": "나연", "tel": "010-2222-2221", "address": "서울", "id": 1001 },
    { "name": "정연", "tel": "010-2222-2221", "address": "서울", "id": 1002 },
    { "name": "모모", "tel": "010-2222-2221", "address": "서울", "id": 1003 },
    { "name": "사나", "tel": "010-2222-2221", "address": "서울", "id": 1004 },
    { "name": "지효", "tel": "010-2222-2221", "address": "서울", "id": 1005 },
    { "name": "미나", "tel": "010-2222-2221", "address": "서울", "id": 1006 },
    { "name": "다현", "tel": "010-2222-2221", "address": "서울", "id": 1007 },
    { "name": "채영", "tel": "010-2222-2221", "address": "서울", "id": 1008 },
    { "name": "쯔위", "tel": "010-2222-2221", "address": "서울", "id": 1009 },
    { "name": "박초롱", "tel": "010-2222-2221", "address": "서울", "id": 1010 },
    { "name": "윤보미", "tel": "010-2222-2221", "address": "서울", "id": 1011 },
    { "name": "정은지", "tel": "010-2222-2221", "address": "서울", "id": 1012 },
    { "name": "손나은", "tel": "010-2222-2221", "address": "서울", "id": 1013 },
    { "name": "김남주", "tel": "010-2222-2221", "address": "서울", "id": 1014 },
    { "name": "오하영", "tel": "010-2222-2221", "address": "서울", "id": 1015 },
    { "name": "솔라", "tel": "010-2222-2221", "address": "서울", "id": 1016 },
    { "name": "문별", "tel": "010-2222-2221", "address": "서울", "id": 1017 },
    { "name": "휘인", "tel": "010-2222-2221", "address": "서울", "id": 1018 },
    { "name": "화사", "tel": "010-2222-2221", "address": "서울", "id": 1019 },
    { "name": "유주", "tel": "010-2222-2221", "address": "서울", "id": 1020 }
  ]
}
```

❖ 기동 방법

- `npx json-server --watch db.json`
 - 기본 포트 : 3000번
 - `http://localhost:3000`
- `db.json`을 생성할 때의 `contacts`와 같은 수준의 속성이 엔티티로 간주됨
 - `http://localhost:3000/contacts`
- 기본 접근 라우트
 - 전체 조회 : `GET /contacts`
 - 한건 조회 : `GET /contacts/1001`
 - 한건 추가 : `POST /contacts`
 - 한건 수정 : `PUT /contacts/1001`
 - 한건 삭제 : `DELETE /contacts/1001`

4. 데이터 조회

❖ 목록 조회

- GET /contacts

❖ 필터링 방법

- GET /contacts?id=1001&id=1005 //id가 1001또는 1005인 아이템 조회
- GET /contacts?name=유주 //이름이 '유주'인 아이템 조회
- GET /contacts?age_gte=20 //나이가 20세 이상인 아이템 조회
- 연산자 : _get, _lte, _gt, _lt, _ne
- Full Text Search : GET /contacts?q=나
- LIKE : /contacts?name_like=^나 //정규식을 사용: ^나 (시작하는) , 연\$ (끝나는)

❖ 페이징

- GET /contacts?_page=1&_limit=3 //한페이지에 3개씩 1번째 페이지
- 기본값 : _page=1, _limit=10

❖ 정렬

- GET /contacts?_sort=id&_order=desc //id 로 내림차순 정렬
- GET /contacts?_sort=name,tel&_order=asc,desc

5. 데이터 추가

❖ POST /contacts

The screenshot shows a REST client interface with a dark theme. At the top, there's a navigation bar with buttons for '+ New', 'Import', 'Runner', and 'My Workspace'. Below this, the main area displays a request configuration for 'POST http://localhost:3000/contacts'. The 'Body' tab is selected, showing a JSON payload: `{ "name": "은주", "tel": "010-2222-2221", "address": "서울" }`. The 'Send' button is visible. Below the request configuration, the 'Body' tab of the response is selected, showing the received JSON: `{ "name": "은주", "tel": "010-2222-2221", "address": "서울", "id": 1021 }`. The status bar at the bottom indicates 'Status: 201 Created', 'Time: 559 ms', and 'Size: 597 B'.

POST http://localhost:3000/contacts

Untitled Request

POST http://localhost:3000/contacts

Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 { "name": "은주", "tel": "010-2222-2221", "address": "서울" }
2
```

Body Cookies Headers (15) Test Results

Status: 201 Created Time: 559 ms Size: 597 B Save R

Pretty Raw Preview Visualize JSON

```
1 {
2   "name": "은주",
3   "tel": "010-2222-2221",
4   "address": "서울",
5   "id": 1021
6 }
```

Find and Replace Console Bootcamp

6. 데이터 수정

❖ PUT /contacts/1021

The screenshot shows a REST client interface with a dark theme. At the top, there's a navigation bar with buttons for '+ New', 'Import', 'Runner', and 'My Workspace'. Below this, the main area is divided into sections. The top section shows the request method 'PUT' and the URL 'http://localhost:3000/contacts/1021'. To the right of the URL is a 'Send' button. Below the URL bar, there are tabs for 'Params', 'Authorization', 'Headers (8)', 'Body', 'Pre-request Script', 'Tests', and 'Settings'. The 'Body' tab is selected, and it shows a JSON body: `{ "name": "전소미", "tel": "010-2222-3333", "address": "서울" }`. Below the body, there are radio buttons for different content types: 'none', 'form-data', 'x-www-form-urlencoded', 'raw' (selected), 'binary', and 'GraphQL'. The 'raw' option is selected, and the JSON body is displayed in a text area. At the bottom, there's a status bar showing 'Status: 200 OK', 'Time: 547 ms', and 'Size: 483 B'. There are also buttons for 'Pretty', 'Raw', 'Preview', 'Visualize', and 'JSON'. The 'Pretty' button is selected, and the JSON body is displayed in a formatted view:

```
1 {
2   "name": "전소미",
3   "tel": "010-2222-3333",
4   "address": "서울",
5   "id": 1021
6 }
```

7. 데이터 삭제

❖ DELETE /contacts/1021

The screenshot shows a REST client interface with a dark top bar containing buttons for '+ New', 'Import', 'Runner', and 'My Workspace'. Below this, the main area is titled 'Untitled Request' and shows a 'DELETE' method for the URL 'http://localhost:3000/contacts/1021'. The 'Send' button is visible. The 'Params' tab is active, showing a table for 'Query Params' with columns 'KEY', 'VALUE', and 'DESCRIPTION'. The 'Body' tab is also visible, showing a 'Pretty' view of the response body. The status bar at the bottom indicates 'Status: 200 OK', 'Time: 544 ms', and 'Size: 395 B'.

DEL http://localhost:3000/contacts/... + ... No Environment

Untitled Request BUILD

DELETE http://localhost:3000/contacts/1021 Send

Params Authorization Headers (8) Body ● Pre-request Script Tests Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (13) Test Results Status: 200 OK Time: 544 ms Size: 395 B Save R

Pretty Raw Preview Visualize JSON

1 {}

Find and Replace Console Bootcamp