



API 명세서

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🕒 GitHub API 명세

1 Github Commit API 명세

- <https://docs.github.com/ko/rest/commits/commits?apiVersion=2022-11-28#list-commits>
 - 여기서는 가장 처음 커밋 목록만 사용할 것입니다.
- <https://docs.github.com/ko/rest/using-the-rest-api/rate-limits-for-the-rest-api?apiVersion=2022-11-28>
- <https://docs.github.com/en/rest/using-the-rest-api/best-practices-for-using-the-rest-api?apiVersion=2022-11-28#pause-between-mutative-requests>
 - 최적화 포인트
- <https://docs.github.com/en/rest/users/followers?apiVersion=2022-11-28> - follower 관련 코

2 user 기반 Follower 가져오기 (Optional)

<https://docs.github.com/en/rest/users/followers?apiVersion=2022-11-28#list-followers-of-a-user>

GET <https://api.github.com/users/{username}/followers>

▼ api return 예시

```
[
  {
    "login": "slavaGanzin",
    "id": 1011721,
    "node_id": "MDQ6VXNlcjEwMTE3MjE=",
    "avatar_url": "https://avatars.githubusercontent.com/u/1011721?v=4",
    "gravatar_id": "",
    "url": "https://api.github.com/users/slavaGanzin",
    "html_url": "https://github.com/slavaGanzin",
    "followers_url": "https://api.github.com/users/slavaGanzin/followers",
    "following_url": "https://api.github.com/users/slavaGanzin/following{/other_user}",
    "gists_url": "https://api.github.com/users/slavaGanzin/gists{/gist_id}",
    "starred_url": "https://api.github.com/users/slavaGanzin/starred{/owner}/{repo}",
    "subscriptions_url": "https://api.github.com/users/slavaGanzin/subscriptions",
    "organizations_url": "https://api.github.com/users/slavaGanzin/orgs",
    "repos_url": "https://api.github.com/users/slavaGanzin/repos",
    "events_url": "https://api.github.com/users/slavaGanzin/events{/privacy}",
    "received_events_url": "https://api.github.com/users/slavaGanzin/received_events",
    "type": "User",
    "user_view_type": "public",
    "site_admin": false
  },
  ...
]
```

3 Owner 기반 repository 가져오기

<https://docs.github.com/en/rest/users/followers?apiVersion=2022-11-28>

GET <https://api.github.com/users/{owner}/repos>

▼ api return 예시

```
[
  {
    "id": 1079997638,
    "node_id": "R_kgDOQF90xg",
    "name": "annotated-doc",
    "full_name": "fastapi/annotated-doc",
    "private": false,
    "owner": {
      "login": "fastapi",
      "id": 156354296,
      "node_id": "O_kgDOCVHG-A",
      "avatar_url": "https://avatars.githubusercontent.com/u/156354296?v=4",
      "gravatar_id": "",
      "url": "https://api.github.com/users/fastapi",
      "html_url": "https://github.com/fastapi",
      "followers_url": "https://api.github.com/users/fastapi/followers",
      "following_url": "https://api.github.com/users/fastapi/following{/other_user}",
      "gists_url": "https://api.github.com/users/fastapi/gists{/gist_id}",
      "starred_url": "https://api.github.com/users/fastapi/starred{/owner}/{/repo}",
      "subscriptions_url": "https://api.github.com/users/fastapi/subscriptions",
      "organizations_url": "https://api.github.com/users/fastapi/orgs",
      "repos_url": "https://api.github.com/users/fastapi/repos",
      "events_url": "https://api.github.com/users/fastapi/events{/privacy}",
      "received_events_url": "https://api.github.com/users/fastapi/received_events",
      "type": "Organization",
      "user_view_type": "public",
      "site_admin": false
    },
    "html_url": "https://github.com/fastapi/annotated-doc",
    "description": "Document parameters, class attributes, return types, and variables inline, with Annotated.",
    "fork": false,
    "url": "https://api.github.com/repos/fastapi/annotated-doc",
    "forks_url": "https://api.github.com/repos/fastapi/annotated-doc/forks",
    "keys_url": "https://api.github.com/repos/fastapi/annotated-doc/keys{/key_id}",
    "collaborators_url": "https://api.github.com/repos/fastapi/annotated-doc/collaborators{/collaborator}",
    "teams_url": "https://api.github.com/repos/fastapi/annotated-doc/teams",
    "hooks_url": "https://api.github.com/repos/fastapi/annotated-doc/hooks",
    "issue_events_url": "https://api.github.com/repos/fastapi/annotated-doc/issues/event"
```

```

ts{/number}",
  "events_url": "https://api.github.com/repos/fastapi/annotated-doc/events",
  "assignees_url": "https://api.github.com/repos/fastapi/annotated-doc/assignees{/us
er}",
  "branches_url": "https://api.github.com/repos/fastapi/annotated-doc/branches{/bran
ch}",
  "tags_url": "https://api.github.com/repos/fastapi/annotated-doc/tags",
  "blobs_url": "https://api.github.com/repos/fastapi/annotated-doc/git/blobs{/sha}",
  "git_tags_url": "https://api.github.com/repos/fastapi/annotated-doc/git/tags{/sha}",
  "git_refs_url": "https://api.github.com/repos/fastapi/annotated-doc/git/refs{/sha}",
  "trees_url": "https://api.github.com/repos/fastapi/annotated-doc/git/trees{/sha}",
  "statuses_url": "https://api.github.com/repos/fastapi/annotated-doc/statuses/{sha}",
  "languages_url": "https://api.github.com/repos/fastapi/annotated-doc/languages",
  "stargazers_url": "https://api.github.com/repos/fastapi/annotated-doc/stargazers",
  "contributors_url": "https://api.github.com/repos/fastapi/annotated-doc/contributor
s",
  "subscribers_url": "https://api.github.com/repos/fastapi/annotated-doc/subscribers",
  "subscription_url": "https://api.github.com/repos/fastapi/annotated-doc/subscriptio
n",
  "commits_url": "https://api.github.com/repos/fastapi/annotated-doc/commits{/sha}",
  "git_commits_url": "https://api.github.com/repos/fastapi/annotated-doc/git/commits
{/sha}",
  "comments_url": "https://api.github.com/repos/fastapi/annotated-doc/comments{/nu
mber}",
  "issue_comment_url": "https://api.github.com/repos/fastapi/annotated-doc/issues/co
mments{/number}",
  "contents_url": "https://api.github.com/repos/fastapi/annotated-doc/contents/{+pat
h}",
  "compare_url": "https://api.github.com/repos/fastapi/annotated-doc/compare/{bas
e}...{head}",
  "merges_url": "https://api.github.com/repos/fastapi/annotated-doc/merges",
  "archive_url": "https://api.github.com/repos/fastapi/annotated-doc/{archive_format}
{/ref}",
  "downloads_url": "https://api.github.com/repos/fastapi/annotated-doc/downloads",
  "issues_url": "https://api.github.com/repos/fastapi/annotated-doc/issues{/number}",
  "pulls_url": "https://api.github.com/repos/fastapi/annotated-doc/pulls{/number}",
  "milestones_url": "https://api.github.com/repos/fastapi/annotated-doc/milestones{/n
umber}",
  "notifications_url": "https://api.github.com/repos/fastapi/annotated-doc/notifications
{?since,all,participating}",
  "labels_url": "https://api.github.com/repos/fastapi/annotated-doc/labels{/name}",
  "releases_url": "https://api.github.com/repos/fastapi/annotated-doc/releases{/id}",

```

```

    "deployments_url": "https://api.github.com/repos/fastapi/annotated-doc/deployment
s",
    "created_at": "2025-10-20T17:58:51Z",
    "updated_at": "2025-11-10T22:06:45Z",
    "pushed_at": "2025-11-10T22:10:33Z",
    "git_url": "git://github.com/fastapi/annotated-doc.git",
    "ssh_url": "git@github.com:fastapi/annotated-doc.git",
    "clone_url": "https://github.com/fastapi/annotated-doc.git",
    "svn_url": "https://github.com/fastapi/annotated-doc",
    "homepage": null,
    "size": 93,
    "stargazers_count": 58,
    "watchers_count": 58,
    "language": "Python",
    "has_issues": true,
    "has_projects": true,
    "has_downloads": true,
    "has_wiki": false,
    "has_pages": false,
    "has_discussions": true,
    "forks_count": 4,
    "mirror_url": null,
    "archived": false,
    "disabled": false,
    "open_issues_count": 1,
    "license": {
        "key": "mit",
        "name": "MIT License",
        "spdx_id": "MIT",
        "url": "https://api.github.com/licenses/mit",
        "node_id": "MDc6TGljZW5zZTEz"
    },
    "allow_forking": true,
    "is_template": false,
    "web_commit_signoff_required": false,
    "topics": [],
    "visibility": "public",
    "forks": 4,
    "open_issues": 1,
    "watchers": 58,
    "default_branch": "main",
    "permissions": {

```

```

    "admin": false,
    "maintain": false,
    "push": false,
    "triage": false,
    "pull": true
  }
},
...
]

```

4 repository 기반 commit 가져오기

<https://docs.github.com/en/rest/commits/commits#list-commits>

GET <https://api.github.com/repos/{owner}/{repo}/commits>

▼ api return 예시

```

[
  {
    "sha": "456008a52b01b570a0f03f8c9d53722eda137728",
    "node_id": "C_kwDOCZduT9oAKDQ1NjAwOGE1MmlwMWI1NzBhMGYwM2Y4YzlkNTM3MjJIZGExMzc3Mjg",
    "commit": {
      "author": {
        "name": "github-actions[bot]",
        "email": "github-actions[bot]@users.noreply.github.com",
        "date": "2025-11-20T10:45:39Z"
      },
      "committer": {
        "name": "github-actions[bot]",
        "email": "github-actions[bot]@users.noreply.github.com",
        "date": "2025-11-20T10:45:39Z"
      },
      "message": "📝 Update release notes\n\n[skip ci]",
      "tree": {
        "sha": "3eff28b575c4356296e3cfa27e624b8f06349f24",
        "url": "https://api.github.com/repos/fastapi/fastapi/git/trees/3eff28b575c4356296e3cfa27e624b8f06349f24"
      },
      "url": "https://api.github.com/repos/fastapi/fastapi/git/commits/456008a52b01b57

```

```

0a0f03f8c9d53722eda137728",
  "comment_count": 0,
  "verification": {
    "verified": false,
    "reason": "unsigned",
    "signature": null,
    "payload": null,
    "verified_at": null
  }
},
"url": "https://api.github.com/repos/fastapi/fastapi/commits/456008a52b01b570a0f03f8c9d53722eda137728",
"html_url": "https://github.com/fastapi/fastapi/commit/456008a52b01b570a0f03f8c9d53722eda137728",
"comments_url": "https://api.github.com/repos/fastapi/fastapi/commits/456008a52b01b570a0f03f8c9d53722eda137728/comments",
"author": {
  "login": "github-actions[bot]",
  "id": 41898282,
  "node_id": "MDM6Qm90NDE4OTgyODI=",
  "avatar_url": "https://avatars.githubusercontent.com/in/15368?v=4",
  "gravatar_id": "",
  "url": "https://api.github.com/users/github-actions%5Bbot%5D",
  "html_url": "https://github.com/apps/github-actions",
  "followers_url": "https://api.github.com/users/github-actions%5Bbot%5D/followers",
  "following_url": "https://api.github.com/users/github-actions%5Bbot%5D/following{/other_user}",
  "gists_url": "https://api.github.com/users/github-actions%5Bbot%5D/gists{/gist_id}",
  "starred_url": "https://api.github.com/users/github-actions%5Bbot%5D/starred{/owner}/{/repo}",
  "subscriptions_url": "https://api.github.com/users/github-actions%5Bbot%5D/subscriptions",
  "organizations_url": "https://api.github.com/users/github-actions%5Bbot%5D/orgs",
  "repos_url": "https://api.github.com/users/github-actions%5Bbot%5D/repos",
  "events_url": "https://api.github.com/users/github-actions%5Bbot%5D/events{/privacy}",
  "received_events_url": "https://api.github.com/users/github-actions%5Bbot%5D/received_events",
  "type": "Bot",

```

```

        "user_view_type": "public",
        "site_admin": false
    },
    "committer": {
        "login": "github-actions[bot]",
        "id": 41898282,
        "node_id": "MDM6Qm90NDE4OTgyODI=",
        "avatar_url": "https://avatars.githubusercontent.com/in/15368?v=4",
        "gravatar_id": "",
        "url": "https://api.github.com/users/github-actions%5Bbot%5D",
        "html_url": "https://github.com/apps/github-actions",
        "followers_url": "https://api.github.com/users/github-actions%5Bbot%5D/followers",
        "following_url": "https://api.github.com/users/github-actions%5Bbot%5D/following{/other_user}",
        "gists_url": "https://api.github.com/users/github-actions%5Bbot%5D/gists{/gist_id}",
        "starred_url": "https://api.github.com/users/github-actions%5Bbot%5D/starred{/owner}/{/repo}",
        "subscriptions_url": "https://api.github.com/users/github-actions%5Bbot%5D/subscriptions",
        "organizations_url": "https://api.github.com/users/github-actions%5Bbot%5D/orgs",
        "repos_url": "https://api.github.com/users/github-actions%5Bbot%5D/repos",
        "events_url": "https://api.github.com/users/github-actions%5Bbot%5D/events{/privacy}",
        "received_events_url": "https://api.github.com/users/github-actions%5Bbot%5D/received_events",
        "type": "Bot",
        "user_view_type": "public",
        "site_admin": false
    },
    "parents": [
        {
            "sha": "be5a6311f5ad542f253f48ca95cd863026b67c05",
            "url": "https://api.github.com/repos/fastapi/fastapi/commits/be5a6311f5ad542f253f48ca95cd863026b67c05",
            "html_url": "https://github.com/fastapi/fastapi/commit/be5a6311f5ad542f253f48ca95cd863026b67c05"
        }
    ]
},

```



```
...  
]
```

- commit의 중복을 방지하기 위해 `sha`

URL 설계

Search

기능	URL	Request	Response	Body	설명
사용자 조회	GET /api/search	option= Enum(입력된 github_owner, github_nickname, username, default: username) keyword	200 OK	github_nickname username commit : 1등 커밋 만 가져옴 id : 숫자 id값	사용자를 ???% 방식(prefix)로 검색하는 것

Streak

기능	URL	Request	Response	Body	설명
스트릭 조회	/api/streak	option = Enum(주, 월, 년)	200 OK commits	commits : [숫자, ...] start : YYYY-MM-DD end :	전체 사용자 목록 조회

Ranking

기능	URL	Request	Response	Body	설명
랭킹 조회	GET /api/ranking	option = Enum page = 무제한, default 1 per_page = 기본 30, max 100	200 OK	commits : [{ username, commit}]	전체 사용자 목록 조회
랭킹 상세 조회	GET /api/ranking/user	option = Enum page = 무제한, default 1	200 OK	commits : [{ username, repo, github_nickname,	특정 사용자 상세 정보 조회

		per_page = 기본 30, max 100		commit}]	
--	--	---------------------------	--	--------------	--

User

기능	URL	Request	Response	Body	설명
사용자 상세 조회	GET /api/users/{id}	-	200 OK	github_nickname github_email username email user_id	특정 사용자 상세 정보 조회
사용자 등록	POST /api/users	user_id username email password	201 Created	-	새로운 사용자 등록
사용자 수정	PUT /api/users/{id}	user_id (optional) username (optional) email (optional) password (required)	200 OK		사용자 정보 수정
사용자 삭제	DELETE /api/users/{id}		204 No Content		사용자 삭제
사용자 개인정보 동의	POST /api/users/agrees		201 Created		

<https://github.com/octokit/core.js#readme>



요청/응답 상세

사용자 등록 (POST /api/users)

Request Body:

```
{
  "username": "string",
  "email": "string",
  "password": "string",
}
```

```
"name": "string"
}
```

Response:

```
{
  "id": "number",
  "username": "string",
  "email": "string",
  "name": "string",
  "createdAt": "string"
}
```

사용자 수정 (PUT /api/users/{id})

Request Body:

```
{
  "username": "string",
  "email": "string",
  "name": "string"
}
```

Response:

```
{
  "id": "number",
  "username": "string",
  "email": "string",
  "name": "string",
  "updatedAt": "string"
}
```

! 에러 응답

상태 코드	설명
400 Bad Request	잘못된 요청 형식
401 Unauthorized	인증 실패
403 Forbidden	권한 없음
404 Not Found	리소스를 찾을 수 없음
500 Internal Server Error	서버 내부 오류