GitHub API List repositories for a user Test Plan

**Product spec**: <http://developer.github.com/v3/repos/#list-user-repositories>

Lists public repositories for the specified user.

GET /users/:username/repos

### **Parameters**

| **Name** | **Type** | **Description** |
| --- | --- | --- |
| type | string | Can be one of all, owner, member. Default: owner |
| sort | string | Can be one of created, updated, pushed, full\_name. Default: full\_name |
| direction | string | Can be one of asc or desc. Default: asc when using full\_name, otherwise desc |

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# User Data

Setup users in a git Hub staging environment. For perf and stress testing it would need to match the production environment configuration

* User 1 : full repository all owner
* User 2 : full repository all member
* User 3 : full repository mixed owner and member
* User 4 : No repositories

# Test Coverage

## Functional

API calls

Add expected results for each call based on User Data above

**Type=all**

GET /users/User1/repos?type=all&sort=created&direction=asc

GET /users/User1/repos?type=all&sort=created&direction=desc

GET /users/User1/repos?type=all&sort=created (direction default desc)

GET /users/User1/repos?type=all&sort=updated&direction=asc

GET /users/User1/repos?type=all&sort=updated&direction=desc

GET /users/User1/repos?type=all&sort=updated (direction default desc)

GET /users/User1/repos?type=all&sort=pushed&direction=asc

GET /users/User1/repos?type=all&sort=pushed&direction=desc

GET /users/User1/repos?type=all&sort=pushed (direction default desc)

GET /users/User1/repos?type=all&sort=full\_name&direction=asc

GET /users/User1/repos?type=all&sort=full\_name&direction=desc

GET /users/User1/repos?type=all&sort=full\_name (direction default asc)

GET /users/User1/repos?type=all&sort&direction=asc

GET /users/User1/repos?type=all&sort&direction=desc

GET /users/User1/repos?type=all (direction default asc. Sort default full\_name)

**Type=owner**

GET /users/User1/repos?type=owner&sort=created&direction=asc

GET /users/User1/repos?type=owner&sort=created&direction=desc

GET /users/User1/repos?type=owner&sort=created (direction default desc)

GET /users/User1/repos?type=owner&sort=updated&direction=asc

GET /users/User1/repos?type=owner&sort=updated&direction=desc

GET /users/User1/repos?type=owner&sort=updated (direction default desc)

GET /users/User1/repos?type=owner&sort=pushed&direction=asc

GET /users/User1/repos?type=owner&sort=pushed&direction=desc

GET /users/User1/repos?type=owner&sort=pushed (direction default desc)

GET /users/User1/repos?type=owner&sort=full\_name&direction=asc

GET /users/User1/repos?type=owner&sort=full\_name&direction=desc

GET /users/User1/repos?type=owner&sort=full\_name (direction default asc)

GET /users/User1/repos?type=owner&sort&direction=asc

GET /users/User1/repos?type=owner&sort&direction=desc

GET /users/User1/repos?type=owner (direction default asc. Sort default full\_name)

**Type=member**

GET /users/User1/repos?type=member&sort=created&direction=asc

GET /users/User1/repos?type=member&sort=created&direction=desc

GET /users/User1/repos?type=member&sort=created (direction default desc)

GET /users/User1/repos?type=member&sort=updated&direction=asc

GET /users/User1/repos?type=member&sort=updated&direction=desc

GET /users/User1/repos?type=member&sort=updated (direction default desc)

GET /users/User1/repos?type=member&sort=pushed&direction=asc

GET /users/User1/repos?type=member&sort=pushed&direction=desc

GET /users/User1/repos?type=member&sort=pushed (direction default desc)

GET /users/User1/repos?type=member&sort=full\_name&direction=asc

GET /users/User1/repos?type=member&sort=full\_name&direction=desc

GET /users/User1/repos?type=member&sort=full\_name (direction default asc)

GET /users/User1/repos?type=member&sort&direction=asc

GET /users/User1/repos?type=member&sort&direction=desc

GET /users/User1/repos?type=member (direction default asc. Sort default full\_name)

**Type=default**

GET /users/User1/repos?&sort=created&direction=asc (type default owner)

GET /users/User1/repos?&sort=created&direction=desc (type default owner)

GET /users/User1/repos?&sort=created (direction default desc) (type default owner)

GET /users/User1/repos?&sort=updated&direction=asc (type default owner)

GET /users/User1/repos?&sort=updated&direction=desc (type default owner)

GET /users/User1/repos?&sort=updated (direction default desc) (type default owner)

GET /users/User1/repos?&sort=pushed&direction=asc (type default owner)

GET /users/User1/repos?&sort=pushed&direction=desc (type default owner)

GET /users/User1/repos?&sort=pushed (direction default desc) (type default owner)

GET /users/User1/repos?&sort=full\_name&direction=asc (type default owner)

GET /users/User1/repos?&sort=full\_name&direction=desc (type default owner)

GET /users/User1/repos?&sort=full\_name (direction default asc) (type default owner)

GET /users/User1/repos?&sort&direction=asc (type default owner)

GET /users/User1/repos?&sort&direction=desc (type default owner)

GET /users/User1/repos? (direction default asc. Sort default full\_name) (type default owner)

GET /users/User2/repos?type=all&sort=created&direction=asc

GET /users/User3/repos?type=all&sort=created&direction=asc

## Non Functional

### Security

SQL INJECTION

GET /users/User1/repos?type=DROP TABLE TYPE;&sort=pushed&direction=asc

GET /users/User1/repos?type=DROP TABLE USERS;&sort=pushed&direction=asc

GET /users/User1/repos?DROP TABLE SORT;&sort=pushed&direction=asc

### Performance

1000 sequential Calls GET /users/User1/repos?type=all&sort=created&direction=asc

Noon and midnight

Time each call and get average

Verify average meet sla

### Stress

10 Users make 10000 sequential Calls GET /users/User1/repos?type=all&sort=created&direction=asc

Noon and midnight (tune number after run results)