

# A GroupManager RESTful api spec

pid = an project name (string)  
gid = a group name (string)  
uid = a user name (string)

id = An integer uniquely identifying user or group

Keywords:  
users, groups, projects, subgroups, direct, indirect, exp, id

Reserved characters:  
';' ','

No users, groups, or projects may be named one of the keywords.  
Names should not use HTTP reserved characters.

Users Resource

Create user  
POST /users  
firstname=brian  
lastname=vanklaveren  
email\_primary=bvan@slac.stanford.edu  
work\_phone=650-123-4321  
institution=SLAC  
username=bvan // optional  
projects=SRS,LSST-CAMERA,EXO // optional

201 CREATED  
id=432

Get user from user ID number  
GET /users/id/{id}

Get users with name like brian  
GET /users?firstname=brian

Get users with name like \*ian\*  
GET /users?firstname=\*ian\*

Get users with name johnson  
GET /users?lastname=johnson

Get all user groups (with projects)  
GET /users/{uid}/groups

```
[
  { "project": "SRS",
    "groups": [
      "DatacatAdmin",
      "PipelineAdmin"
    ]
  },
  { "project": "EXO",
    "groups": [
      "DatacatAdmin",
      "PipelineAdmin"
    ]
  }
]
```

```

Get projects a user belongs to
GET /users/{uid}/projects
[ "SRS", "EXO" ]

Get the groups a user belongs to in a given project.
GET /users/{uid}/{pid}/groups           // Includes the groups the user is directly in and any children
GET /users/{uid}/{pid}/groups;direct    // Includes only groups the user is directly in
GET /users/{uid}/{pid}/groups;indirect  // Only groups the user is indirectly in.
["DatacatAdmin", "PipelineAdmin" ]

Get a the user list
GET /projects/{pid}/userlist

Creates a group
POST /projects/{pid}/groups

Get an project's groups
GET /projects/{pid}/groups

Create a group in an project
POST /projects/{pid}/groups
name=DatacatAdmin

Get an project's group
GET /projects/{pid}/groups/{gid}

Get an project's group
GET /projects/{pid}/groups/{gid}

Get all users in an project's group
GET /projects/{pid}/groups/{gid}/users

Add a user to a group
POST /projects/{pid}/groups/{gid}/users
name=jim

Check if user is in group
GET /projects/{pid}/groups/{gid}/users/{uid}           // User in this group directly or indirectly
GET /projects/{pid}/groups/{gid}/users/{uid};direct    // Directly in this group
GET /projects/{pid}/groups/{gid}/users/{uid};indirect  // Indirectly in this group

Add a group to a group (must already exist)
POST /projects/{pid}/groups/{gid}/subgroups
name=DatacatAdmin

Get children of group
GET /projects/{pid}/groups/{gid}/subgroups           // All, includes children's children
GET /projects/{pid}/groups/{gid}/subgroups;direct    // Direct Children
GET /projects/{pid}/groups/{gid}/subgroups;indirect  // Only children's children
["DatacatAdmin", "PipelineAdmin"]

Check if group is in group
GET /projects/{pid}/groups/{gid}/subgroups/{gid}      // Group in this group directly or indirectly
GET /projects/{pid}/groups/{gid}/subgroups/{gid};direct // Group is directly in this group
GET /projects/{pid}/groups/{gid}/subgroups/{gid};indirect // Group is indirectly in this group

NOTE:
/projects/{pid} may be omitted if x-srs-project header set in request.

```