

# ReSTful Endpoint Design for Lists

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Can we use the typical stories we tell in designing databases to discover HTTP command/ReSTful endpoint combinations?

- Users

1. are created by administrative users
  - `POST /users`
2. can get information about other users
  - `GET /users`
  - `GET /users/<userId>`
3. can update their profile information
  - `PUT /users/<uId>`
4. are deleted by the user themselves or administrative users
  - `DELETE /users/<userId>`

- Lists

1. created by users, who own them
  - `POST /users/<uId>/lists`
2. Users can get details of their lists
  - `GET /users/<userId>/lists`
  - `GET /users/<userId>/lists<listId>`
3. Users can update their list attributes
  - `PUT /users/<uId>/lists/<lId>`
4. deleted by the user that owns them
  - `DELETE /users/<uId>/lists/<lId>`

- ListItems

For the purposes here a user or collaborator with valid access permissions is termed a contributor.

1. can be added by a contributor
  - `POST /users/<uId>/lists/<lId>/items`
2. Contributors can get all or an item for a list they collaborate on
  - `GET /users/<uId>/lists/<lId>/items`
  - `GET /users/<uId>/lists/<lId>/items/<iId>`
3. Contributors can edit a list item. Contributors with read-only can modify the status (completion)
  - `PUT /users/<uId>/lists/<lId>/items/<iId>`

4. Contributors can remove an item from a list

- `DELETE /users/<uId>/lists/<lId>/items/<iId>`

- Collaboration

A collaborator is another user given access (r, rw) by a user to a list, by the list owner.

1. Users can allow other users to read or read/write items in their Lists

- `POST /users/<uId>/lists/<lId>/collaborators`

2. Users can get the collaborators for their list

- `GET /users/<uId>/lists/<lId>/collaborators`

3. Users can edit the permissions of their list collaborators

- `PUT /users/<uId>/lists/<lId>/collaborators/<cId>`

4. Users can revoke list collaborators

- `DELETE /users/<uId>/lists/<lId>/collaborators/<cId>`

5. A user can find the lists/accesses they collaborate on

- `GET /users/<uId>/collaborations`

6. A collaborator can end collaborating on a list

- `DELETE /users/<uId>/collaborations/<lId>`