

# Making Requests

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- All client requests to the resource server should include the following fields:
  - `identity` the identity used to log in to the auth server
  - `token` the token received back from the auth server
  - `type` the type of request. Should use a `ResourceRequestType` enum from `enums.py`
  - additional fields as required by the request type
- All Resource server responses will include the following fields
  - `success` a boolean indicating if the requested operation was successful or not
  - `data` a blob of data formatted depending on the request
    - Upon failure, this will simply be a string indicating a reason for the failure.
- Additionally, the resource server will serve all dates as unix epoch ints

## Request Types

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- `ListLeaderboards`
  - Additional client request fields:
    - `None`
  - Resource server response `data` :
    - A `list` of leaderboards, each a tuple of the following:
      - id of the leaderboard
      - name of the leaderboard
      - permission of the requesting user (see `enums.py` for values)
- `ShowOneLeaderboard`
  - Additional client request fields:
    - `leaderboard_id` : the id of the leaderboard requested
  - Resource server response `data` :
    - A `dict` containing the following:
      - `id` : the id of the leaderboard
      - `name` : the name of the leaderboard
      - `entries` : a `list` of tuples sorted by score in the proper orientation with the following:
        - the id of the entry
        - the id of the submitting user
        - the identity (name) of the submitting user
        - the submitter's score

- the submission date as an int
- the submission's verified status
- CreateLeaderboard
  - Additional client request fields:
    - `leaderboard_name` : the name for the new leaderboard
    - `leaderboard_permission` : the default permission for the new leaderboard
    - `leaderboard_ascending` : `True` to sort scores ascending, `False` to sort descending.
  - Resource server response data :
    - The new leaderboard's id
- AddEntry
  - Additional client request fields:
    - `leaderboard_id` : id of the leaderboard
    - `score` : the score
    - `comment` : a comment / description
  - Resource server response data :
    - the new entry's id
- ListUsers
  - Additional client request fields:
    - None
  - Resource server response data :
    - a list of tuples each with:
      - id of the user
      - identity of the user (username, effectively)
- ListUnverified
  - Additional client request fields:
    - `leaderboard_id` : id of the leaderboard
  - Resource server response data :
    - a list of unverified entries, each a tuple with the following:
      - the entry id
      - the submitting user's id
      - the submitting user's identity
      - entry score
      - date entry submitted
- GetEntry
  - Additional client request fields:
    - `entry_id` : the id of the requested entry
  - Resource server response data :

- a dict with the following fields:
  - entry , a tuple of the following items:
    - the id of the entry
    - the id of the submitter
    - the identity of the submitter
    - score of the entry
    - submission date
    - verified state
    - verifying user's id
    - verifying user's identity
    - verification date
  - comments : a list of tuples, each with the following items:
    - posting user's identity
    - posting date
    - content of the comment
  - files : a list of tuples, each with the following items:
    - id of the file
    - filename
    - date of submission
- ViewUser
  - Additional client request fields:
    - 'user\_id : the id of the requested user
  - Resource server response data :
    - a dict with the following entries:
      - user\_data : a tuple of the following items
        - identity of the user
        - registration date
      - entries : a list of tuples visible to the requesting user, each with the following items:
        - id of the entry
        - id of the leaderboard associated
        - score on the entry
        - verified boolean
        - submission date
- ViewPermissions
  - Additional client request fields:
    - user\_id : the id of the user whose permissions will be viewed

- Resource server response data :
  - a list of tuples each with:
    - the id of a leaderboard
    - the permission of the user for this leaderboard
- ModifyEntryVerification
  - Additional client request fields:
    - entry\_id : the id of the entry to change
    - verified : the state to set (boolean)
  - Resource server response data :
    - None , use success alone to determine outcome.
- AddComment
  - Additional client request fields:
    - entry\_id : the id of the entry to add comment to
    - content : the text content of the comment
  - Resource server response data :
    - None , use success alone to determine outcome.
- RemoveLeaderboard
  - Removes all comments, entries, and files associated with leaderboard as well as the leaderboard itself
  - Additional client request fields:
    - leaderboard\_id : the id of the leaderboard to remove
  - Resource server response data :
    - None , use success alone to determine outcome.
- RemoveEntry
  - Removes all comments, files and the entry from leaderboard.
  - Additional client request fields:
    - entry\_id : the id of the entry to remove
  - Resource server response data
    - None , use success alone to determine outcome
- SetPermission
  - Sets a user's permission for a leaderboard to a certain permission level. Can update a current permission or set a new permission.
  - Additional client request fields:
    - user\_id : the id of the user whose permission is to be updated
    - leaderboard\_id : the leaderboard for the permission
    - permission : the new permission for the user
  - Resource server response data

- None , use success alone to determine outcome
- RemoveUser
  - Removes a user and associated data from the database.
  - Additional client request fields:
    - user\_id : the id of the user to be removed
  - Resource server response data
    - None , use success alone to determine outcome
- ChangeScoreOrder
  - Sets a leaderboard's scoring order
  - Additional client request fields:
    - leaderboard\_id : the id of the leaderboard to be modified
    - ascending : boolean corresponding to if the leaderboard should be set to ascending (false for descending)
  - Resource server response data
    - None , use success alone to determine outcome
- AddProof
  - adds a proof file associated with an entry. Only the user that submitted the entry can add proof.
  - Additional client request fields:
    - entry\_id : the id of the entry to associate the file with.
    - filename : a filename to associate with the file
    - file : a byte blob of the file
  - Resource server response data
    - None , use success alone to determine outcome
- DownloadProof
  - Download a proof file from the server
  - Additional client request fields:
    - file\_id : the id of the file to download
  - Resource server response data
    - the requested file as a byte blob
- GetIdFromIdentity
  - Get a user's id from their identity
  - Additional client request fields:
    - identity : the identity of the desired user
  - Resource server response data :
    - the id of the desired user
- ListAccessGroups

- List users and their access level for a particular leaderboard. Requires moderator permissions.
- Additional client request fields:
  - `leaderboard_id` : the id of the leaderboard in question
- Resource server response `data` :
  - a `list` of users, each a tuple with the following fields:
    - id of the user
    - identity of the user
    - their access level
- RemoveProof
  - Remove a proof file from the server. Can only be done by the submitter or a moderator.
  - Additional client request fields:
    - `file_id` : the id of the file to be deleted.
  - Resource server response `data` :
    - `None` . Use `success` field alone to determine outcome.