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| --- | --- | --- | --- | --- |
| **Operation ID** | **Function** | **Request Arguments** | **Reply Arguments** | **Idempotent?** |
| 0 | Login | Username, password | Session token, or 0 if invalid | No; the session token changes |
| 1 | Register | Username, password | 0: invalid username  OR  1: Registered (success) | No; the server would return 0 if the request is executed more than once because user would be already existent |
| 2 | Get user IP | Session token, username | IP address, port number, last active (e.g. 10 seconds ago) | Yes |
| 3 | Get previews feed | Session token | List of usernames & their respective preview images with their titles | Yes |
| 4 | Get user preview | Session token, username | List of preview images with their titles | Yes |
| 5 | Upload image preview | Session token,  image title,  image thumbnail | 1: success 0: failure | Yes |
| 6 | Get all image titles of a user | Null | List of image titles | Yes |
| 7 | Request Image | username  Image name, quota | 0: refused image: granted | Yes |
| 8 | Request Image Quota | username  Image name, quota | 0: denied  1: granted | Yes; the needed quota is assigned, not incremented |
| 9 | Set Image Quota | Image Name, granted quota | 0: invalid (no image)  1: succeeded | Yes |
|  |  |  |  |  |

**Notes: All arguments are comma separated in the same order they appear left to right.**

**Note: each user should be able to view the names of all image names of the user, whose profile they visit.**