

Lyot

Function Logic

Token Generating

1. Lyot shall authenticate the request based on the credential encapsulated.
2. Check the account table, if the account status is suspend or close ignore the request.
3. Check the account table, if the value of Usage is greater than Quota then return an empty list.
4. If not it shall generate numbers of token and store into table token and return the tokens to client.
5. All tokens are valid for a certain time like 24 hours. Every token generating function should also check the table if there are any expired token and remove them immediately.
6. The TokenNumber in table account should also be increased accordingly.

Receiving Data

1. The request Content-Type is multipart/mixed. Two parts are included. 1st is a text/plain in form of tk=xxxx presenting the token string. 2nd part is the data in its own Content-Type and even the encoding.
2. Lyot inquiry in table token to validate the token, if it exist and not expired, remove it and go on to store the data otherwise ignore the request.

3. Then Lyot store the content into WebDav container in it's own userid's folder. The property of Content-Type and/or Content-Transfer-encoding and/or any other headers presented in this part should also be stored in WebDav container as property of the content. Save the content name as token string.
4. If all processes are executed successfully, Lyot shall return code 200 in it's response.
5. The field Usage should be updated in table account.

Retrieving Data

1. Inquire table account to check account status. is 0 or not. If it's not 0 return code 403.
2. Seeking the token in folder name as userId on WebDav server, if it's not exist return 404.
3. Retrieve the data from WebDav server and return to client. Bewared that Lyot shall send all properties registered on WebDav according to the data file as header in response. The Content-Type is must.
4. We assuming that all client can handle HTTP 1.1 request, then the response shall be sent in HTTP chunks for large content.

Account Registration/Login

1. Query account table by email and un-closed status (account status) to see if there is duplicated records, if yes, reject the registration if no go ahead to next.
2. Typical registration procedure: register -> fill the form (including image verification) -> submit -> send email and waiting for account verification -> get verification -> whole process is done.
3. The UserID is generated.
4. Lyot shall be able to handle password forgetting. Send email to reset password.
5. When login use email address as credential.

Account Query

1. Typically query the information including: token number generated, quota usage, membership age and account status.

Close Account

1. User can choose to close the account then user can't login anymore.
2. The account record won't be deleted in database but mark it closed by assigning AccountStatus field of account table.

Edit Account

1. User can change the following field: FirstName, LastName, Address, City, Province, Country, Postcode, Password

Account Management

1. Administrator shall has interface to search account by email
2. Administrator can change account status to any available options.
3. Administrator can reset password, quota and can check the billing information.

Payment

1. Payment process will only directly affect the quota field of table account.
 2. Using Paypal to receive payment and redirect back to update billing info.
 3. Plans:
 - Usage 250M monthly (\$2.99), half year (\$12.99) and one year (\$22.99)
 - Usage 500M monthly (\$4.99), half year (\$24.99) and one year (\$46.99)
 - Usage 1G monthly (\$16.99), half year (\$96.99) and one year (\$189.99)
- Unpaid account's quota is 10M.

