

Server API Document

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1 Main functions

1.1 Submit a Crisper-X request

URL: `getMain.php`

1.2 Get result

Get the result given the request id.

URL	<code>getResult.php</code>
POST	<code>id</code>
Return	Result in json style, with status=0, 1, 2 means ok, error and not finished respectively.
Example	POST: <code>id=355</code> Return: <code>{ "status":2, "message": "not finished yet" }</code>

1.3 Get requests History

Get requests history. Unregistered users will get the global history.

URL	<code>getHistory.php</code>
POST	<code>token</code>
Return	Top ten records, ordered by time, in Json array style
Example	POST: <code>token=005536bf21179e54370c75b6fb136f2a</code> Return: <code>[{ "request_id": "351", "status": "0" }, { "request_id": "355", "status": "2" }]</code>
See also	Login [section 2.1]

2 User Management

2.1 Login

Login(Sign in) using Username and Password. A token will be returned for future authentication.

URL	login/
POST	name(username), pswd(password)
Return	32 byte token when login succeed, or '-' otherwise.
Example	POST: name=guest&pswd=1234 Return: 005536bf21179e54370c75b6fb136f2a

2.2 Log out

Delete user log information and Log out.

URL	login/logout.php
POST	token
Return	Nothing.
See also	Login [section 2.1]

2.3 Sign Up

Create a new account with username, password and email.

URL	login/signup.php
POST	name(username, unique), pswd(password, encrypt using md5), email(unique).
Return	"Sign In Succeed" or error information.

2.4 Update user's Information

Update your password and/or email address.

URL	login/signup.php
POST	name(username), pswd(old password), newpswd(new password *), newemail(new email *), * Not necessary
Return	'+' ok, '-' failed.

3 File/Specie Upload

3.1 Check upload

Check if this token can upload files

URL	upload/check.php
POST	status=0(Yes)/1(No) and message if status=1 in JSON.
Return	'+' : ok, '-' : failed.
Example	{ "status":1, "message": "Authentication failed" }

3.2 Upload file

Upload your file.

URL	upload/
POST	token, filename(no longer than 255), note(no longer than 1000), file
Return	A(Upload succeed) or N(Something goes wrong)

3.3 Import

Import data from file(s).

URL	upload/import.php
POST	token, command(in json, see section3.7)
Return	New specie Name(start with number), or 'N' for 'Something goes wrong'

3.4 Viewmyfiles

View all my files.

URL	upload/viewmyfiles.php
POST	token
Return	All my files in JSON Array Style
Example	[{ "fileName": "NC_001133-chromosome1", "note": "Saccharomyces's chromosome" }]

3.5 Viewmyspecies

View all my species.

URL	upload/viewmyspecies.php
POST	token
Return	All my species in JSON Array Style
Example	[{ "specie": "Saccharomyces-cerevisiae", "PAMs": [{ "PAM": "NGG" }, { "PAM": "NRG" }], "chromosomes": [{ "chromosome": "NC_001147-chromosome1" }, ... { "chromosome": "NC_001147-chromosome16" }] }]

3.6 Deletemyfiles

Delete your file.

URL	upload/deletemyfiles.php
POST	token, filename
Return	A(Delete succeed) or N(Something goes wrong)

3.7 json.command.txt

How to write commands in Import(section 3.3) method.

The structure of a command:

```
{
  specie      varchar(96)   Name of the new Specie.
  files       array         All correlative chromosome files(.fna).
  [
    fileName  varchar(255)  File name
  ]
  PAM         varchar(20)   PAM
}
```

Example:

```
{"specie":"testSpecie","files":[{"fileName":"NC.012971"}],"PAM":"NGG"}
```