***Class MainHandler***

***Def Get(self):***

Using response object, content type is set to *text/html* as an output. User log in is checked to start with, **if user is already logged in**. It checks if logged in user exists in *User (ndb.model),* in case user doesn’t exist in *User (ndb.model)* it is added into *User (ndb.model). It’s root and current directory is set to (userid+/).* It gets (*directory\_name)* from response object for navigation purposes, checks if it’s not *null* and it helps to navigate through files and folders. Navigation method is done by taking path from current directory object and file name. After getting (*ndb.Key)* it from (*Folder model)* set current user current to *ndb*.*Key*.

Using *(ndb.Folder)* directs entity list, getting lists for following:

1. Directory names

Using *(ndb.Folder)* files entity list, getting lists for following:

1. File names
2. File size, kind, create times

JINJA template main handler render method is called to send response object to display output in *html* and loading static *CSS* file.

**If is not logged in** JINJA template login handler render method is called to send login response object to display output in *html* and loading static *CSS* file. It takes user to *GAE* login interface.

***Def post(self):***

Using response object, content type is set to *text/html* as an output. Getting button values from response object each operation is performed based on value spitted out from response object.

|  |  |
| --- | --- |
| Values | Responses |
| *Add* | 1. Name Validation using regular expressions python 2. Adding directory linking it with parent directory, setting directory using (Folder *ndb.Model),* getting key from it. Append directs and setting up entities of *(Folder ndb.Model)* 3. Redirect to *self* |
| *Delete* | 1. Getting name, kind from response object. 2. Based on kind call operation accordingly  * given name file is removed from (*files entity*) of *(Folder ndb.Model)*. Remove from *blobstore* and delete *key.* * *Given name directory is removed if it’s not empty don’t delete else delete.* |
| *Up* |  |
| *Home* |  |