Server Doc

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RegistrationController Class:

Constructor method:
public RegisterController()

Class Methods and Details:
1- public String userRegistration(@PathVariable String username, @PathVariable String password)

      Description:
- Parameters: 1- username 2- password
- Returns string
- Details: Depending on the given username and password parameters it returns a string of value user ID if the registration was successful or value of "-1" if the username already exists and the registration is not successful.

2- public Integer findIdbyusername(String username)

      Description: helper method
- Parameters: 1- username
- Returns an Integer
- Details: Returns user ID or -1 if no user is found with the given username.

LoginController Class:

Constructor Method:
public LoginController()

Class Methods and Details:
1- public String userLogin(@PathVariable String username, @PathVariable String password)

      Description:
- Parameters: 1- username 2- password
- Returns a string
- Details: returns a value of userID if the login was successful, If not returns a value of "0" if the username is found and the password is incorrect or returns a value of "-1" if the username was not found in the database.

2- public Integer findIdbyusername(String username)

  Description: helper method
- Parameters: 1- username
- Returns an Integer
- Details: Returns user ID or -1 if no user is found with the given username.

3- public boolean verifyPassword(Integer userID, String password)

  Description: helper method
  - Parameters: 1-userID 2-password
  - Returns true or false
  - Details: checks if the given password matches the password of the given userID in the database and returns true, otherwise, false.

Users Class:

public Integer getId()

  Description:
- Parameters : (none)
- Returns an integer
- Details: returns the user ID.

public String getUser()

  Description:
- Parameters : (none)
- Returns a string
- Details: returns the username.

public String getpass()

  Description:
- Parameters : (none)
- Returns a string
- Details: returns the password.

public JSONObject getFriend()

  Description:
  - Parameters : (none)
  - Returns a JSONObject
  - Details: returns friendlist

public void addFriend(Integer fid, String fname)
Description:
- Parameters : 1 - fid 2- fname
- Details: adds friend's name and id to friendlist.
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public void deleteFriend(Integer fid)
Description:
- Parameters : 1- fid
- Details: deleted the given friend id.
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public String getEmail()
Description:
- Parameters : (none)
- Returns a string
- Details: returns the user email.

public void setpass(String password)
Description:
- Parameters : 1- password
- Details: changes the user password to the given password.

UserController Class:

Constructor Methods:
public UserController()

Class Methods and Details:
User addUser(String username,String password)
Description:
- Parameters: 1- username 2-password
- Returns a User
- Details: adds the given user with its parameters to the database.

String deleteAllUsers()
Description: helper method used for testing purposes
- Parameters:
- Returns a string
- Details: deletes all users in the database

String deleteUser(@PathVariable Integer id)
>   Description:
-    Parameters: 1- id
-    Returns a string
-    Details: deletes the user with the given ID from the database

String addFriend(@PathVariable Integer id, @PathVariable String fname)
>   Description:
-    Parameters: 1- id 2-fname
-    Returns a string
-    Details: adds the given friend's name to the specified user id.

String deleteFriend(@PathVariable Integer id, @PathVariable Integer fid)
>   Description:
-    Parameters: 1- id 2-fid
-    Returns a string
-    Details: deletes the friend with the given friend fid from the user with the given ID

JSONObject getFriends(@PathVariable Integer id)
>   Description:
-    Parameters: 1- id
-    Returns a JSON object
-    Details: Returns the friends of a given user id.

String changePass(@PathVariable Integer id, @PathVariable String newpass)
>   Description:
-    Parameters: 1- id 2- newpass
-    Returns a string
-    Details:changes the password of the given user id to newpass.

Integer findIdbyusername(String username)
>   Description: helper method
-    Parameters: 1- username
-    Returns an Integer
-    Details: Returns user ID or -1 if no user is found with the given username.

String findUsername(@PathVariable String username)
      Description:
- Parameters: 1- username
- Returns a string
- Details: find username if it is in the database.

public @ResponseBody JSONObject jsonAll()
      Description:
- Parameters: (none)
- Returns a json object
- Details: returns info of all users in database.

GameSocketHandler Class :
      public void onOpen(Session session, String message)
            Description:
- Parameters: 1- session 2- username
- Details: Map user to session, and send confirmation message to user

      public void onMessage(Session session, String message)
            Description: socket message handler
- Parameters: 1- session 2- message
- Details: Check string protocol in message, broadcast message to all users

      private static void broadcast(String message)
            Description:
- Parameters: 1- session 2- message
- Details: Broadcast message to all users