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Architecture diagram

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Class name: Login

Parent class (if any): None

Subclasses (if any): Authenticate

Responsibilities:

*Allow the user to log in with their registered username and password

Collaborators:
*Register
*Database

Class name: Authenticate Parent class (if any): Login Subclasses (if any): None

Responsibilities:

- *Accesses the database and determines whether their username/password combination is correct
- *Redirect the user to the home page if the combination is correct
- *Prompt the user with an error message if the combination is wrong

Collaborators:

*Database

Class name: Register

Parent class (if any): None

Subclasses (if any): Responsibilities:

- *Allow the user to create an account on the site
- *Registering the user creates an entry in the database
- *Allows the user to choose their user name/ID/password

Collaborators:

- *Login
- *Database

Class name: Database Parent class (if any): None Subclasses (if any): None

Responsibilities:

- *Store the username/password combinations
- *Store new sets of username/passwords from registration
- *Stores User ID's that other users can use to connect with each other
- *Stores User friend list

Collaborators:

- *Login
- *Register
- *Add Friend

Class name: Player

Parent class (if any):None

Subclasses (if any)

Responsibilities:

- *Plays youtube videos from a supplied link at the same time with a partner
- *Allows the user to control the video (quality, start/stop, etc.)

Collaborators:

*Database

Class name: add fri

Parent class (if any):None

Subclasses (if any)

Responsibilities:

- *Allow the user to add other users as friends into their friend list
- *Update the database whenever the user added a friend,

Collaborators:

*Database

Class name: remove_fri
Parent class (if any):None

Subclasses (if any) Responsibilities:

*Allow the user to remove other users from their friend list

*Update the database whenever the user remove a friend,

Collaborators:

*Database

Class name:Streamie-Server

Parent class (if any):None

Subclasses (if any)

Responsibilities:

*Allow user to Login, Register, Manage Friend List

*Update the database

Collaborators:

*Login, Register, Friend List

*Database

Class name: Chatroom Parent class (if any):None

Subclasses (if any) Responsibilities:

- *Add/remove users to the chat room
- *Send and view messages to another user

Collaborators: *Friend List

*Database

Class name: User Profile Parent class (if any): Login

Subclasses (if any): Modify User Profile

Responsibilities:

*View user profile information

*Link to edit user profile

Collaborators:
*Friend List
*Database

Class name: Modify User Profile Parent class (if any): User Profile

Subclasses (if any): None

Responsibilities:

*View user profile information

*Edit user profile

*Update new profile in database

Collaborators:

*Friend List

*Database

Class name: synced-players Parent class (if any): None Subclasses (if any): None

Responsibilities:

- *Stream Youtube videos
- *Update this Player page's Youtube player's status, user counts, and video source to sync-video-server
- *Receive other Player pages' Youtube player's status, user counts, and video source from sync-video-server
- *React accordingly to data received from sync-video-server

Collaborators:

*sync-video-server

Class name: sync-video-server Parent class (if any): None Subclasses (if any): None

Responsibilities:

*Receive Player pages' data about players' status, user counts, and video source to sync-video-server

*Broadcast received data from one Player page to all other Player pages

*Log illegal requests and ignore them

Collaborators:

*synced-players

