

## System Design for Project StackOverFlow

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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

