

Install

You should have Python 2.7.X installed (All Mac OS X machines and some Linux machines comes with this pre-installed). You should be in the backend directory to install and run the server stuff while ssh'd into moore14.cs.purdue.edu. lol

The flask framework can be installed through Python Package Manager using `pip install flask`; `pip install flask-cors`. The requests framework can be installed through Python Package Manager using `pip install requests`. The web socket framework can be installed with `pip install websocket-server`. The date framework can be installed with `pip install isodate`

Alternatively, you can install all the pip packages by running `bash setup.sh`

Usage

To start a server, ssh into moore14.cs.purdue.edu and run `bash start.sh`

To kill a server, run `bash kill.sh`

To run the server in a different host, change the javascript 'wshost' variable to reflect the new socket location

Navigate to `http://moore14.cs.purdue.edu:2000/` in one of the following browsers:

- Safari
- Lynx
- Windows version of Chrome
- Firefox

Defect #	Defect	Output Before Seeding	Output After Seeding	Suggested Correction	Black / White box testing	Severity
1	Visibility doesn't work	All created stations are visible to all users, regardless of whether the user allowed them to be	Only stations given the 'Visible' checkbox will show up in the station browser	When loading stations, only show if the JSON shows Visible as 'true'. Forward the json for visibility correctly	Black box	2

2	Chat message sends to all users except for the sender	All users in station including sender sees messages	All users except sender will see the message	Delete the if-statement that checks to see if the element in client[] is the current user (function "client_send_chat_station" in chatserver.py)	Black box	2
3	"Joined the channel" is sent twice	"Joined the channel" message that sends to all users in the station only sends once when a user joins	"Joined the channel" message that sends to all users in the station sends twice when a user joins	Delete one of the lines that sends the message to all users in the chatroom	White box	3
4	Sent messages do not include spaces	Sending the message 'Hello World' results in 'Hello World'	Sending the message 'Hello World' results in 'HelloWorld'	Remove the message.eplace(' ','') line in chatserver.py	Black box	3
5	Home button produces error prompt	Home button opens up the home page and leaves any current station	All functionality still occurs, but there is also an error prompt that appears	Delete the line (in javascript) that produces an error prompt	Black box	3
6	Chat messages send to all stations	Only users in the sender's channel will see the message	Every user in all channel sees the sent message	Delete the for-loop that goes through every station when sending a message and change the for-loop within the erroneous loop to iterate through only the station that the user is in (function "client_send_chat_station" in chatserver.py)	Black Box	2
7	Adding a YouTube video to the queue adds it twice	Adding a YouTube video adds it once to the queue	Adding a YouTube video adds it twice to the queue	Change 'always' to 'error' when sending ajax in addbox()	White box	2
8	The first	Clicking on	Clicking on	Change the else	White box	2

	Soundcloud results from a search are not able to be added to the queue.	any Soundcloud search result in the list of results will not add it to the queue.	the first Soundcloud search result will not add it to the queue	if (num >=6) from 6 to 5		
9	Can't skip current media	Users type !skip in chat, if a majority vote for a song is achieved the song is skipped	Typing !skip does not increment a counter	Add a skip counter for the currently playing media object, resetting the count if the song switches in between the vote.	Black box	2
10	Users can vote kick themselves	Users type !kick username to kick someone; a vote will not count if their name is the username given and an error is given	Kicking oneself will increment the counter but an error prompt is still given	Add a check at parsing time to make sure the username is not the username of the voter	Black box	2
11	Adding a Youtube video to one station adds it to the next station as well	Adding a Youtube video to a station's queue adds it only to its own queue	Adding a Youtube video to a station's queue adds it to the next station's queue as well	Remove the second request to the server in addBox()	Black box	2
12	Kicking users requires user to say "!kick <userid>" instead of "!kick <username>"	Users kick with "!kick <username>"	Users kick with "!kick <userid>"	Add username instead of ID to JSON object sent instead of client ID	Black box	3
13	No sound is played when a message is received	A ding is played when a message is received from another user	No noise is made when a message is received from another user	Call audio.play() when receiving a message	White box	3
14	Broken image for soundcloud thumbnail	User sees soundcloud logo when seeing soundcloud results in search and	User sees broken image when seeing soundcloud results in search and	Use './static/soundcloud.png' in the js file instead of 'soundcloud.png'	White box	3

		playlist	playlist			
15	When a user leaves a station, kicks all users from a station	User is only person removed from station when user leaves	All users in a station are removed when a user leaves	Change the for loop into an if in the client_leave_chat_station function	Black box	1
16	Votes to kick a user persist if the voter leaves the station	If users that have cast votes leave the chat, the votes are removed.	If users that have cast votes leave the chat, the votes cast still persist.	Check at the time of the vote that all users that cast their votes are still in the list of chat station users	White box	3
17	Creating a stations inverts the colors	When you choose a color for the station, you get the correct hex color	When you choose a color for the station, it reverses the new station's color	Don't reverse the hex color before sending.	Black box	3
18	Creating a station creates 2 stations	Creating a station creates a single station with the specified arguments	Creating a station creates two stations with the specified arguments	There are two requests	Black box	3
19	Thumbnail images are upside down	All the images in the list view (while searching) have thumbnails in correct orientation	All the images are upside down (180 degrees rotated)	Remove the style that applies 180 degree transform from thumbnail image property	Black box	3
20	Stations are not destroyed after last user leaves	Stations are destroyed after the last user leaves	Stations are not destroyed despite there are 0 user in them.	Add a if condition in timer_func in server.py to check the number of users in stations; if it equals to 0, then destroy the station.	White box	2
21	A user can vote to kick another user multiple times and all of the votes will be counted	A user can only vote to kick another user once and after that any attempt to kick the same user	A user can vote to kick another user any number of times and essentially kick them without a	Add an if statement to check if the user requesting to kick someone has already requested to kick them and if they	Black Box	2

		will not succeed	majority vote	have, discard their vote		
22	User can create a 101st station (ID 100) which is not interactable	On 101st call of create, an error is returned saying all stations are active	On 101st call of create, the station ID is returned however, the returned station cannot be interacted with	Set MAX_NUM_STATIONS to 100	White box	2
23	When the queue is empty, the station is destroyed	When the queue of a station is empty, it sits idle. It should not be destroyed until the last user leaves	After the last video finishes	Remove the call to destroyStation(station.id) in timer_func() where the queue is empty	Black box	2
24	When the user switches from a room to the homepage, the user is not removed from the chatroom	The user was removed from the chat session in the station	The user will continue to receive messages from the old chatroom and no message will be sent saying that the user "left"	Move the call to "leavechat()" above the line that changes "stationnum" to null.	Black box	2
25	Running kill.sh only kills the chatserver process instead of both the chatserver and server	Running kill.sh kills both chatserver and server processes	The main server process will keep running after kill.sh is ran	Change the grep to server.py instead of chatserver.py in the kill.sh	White box	2