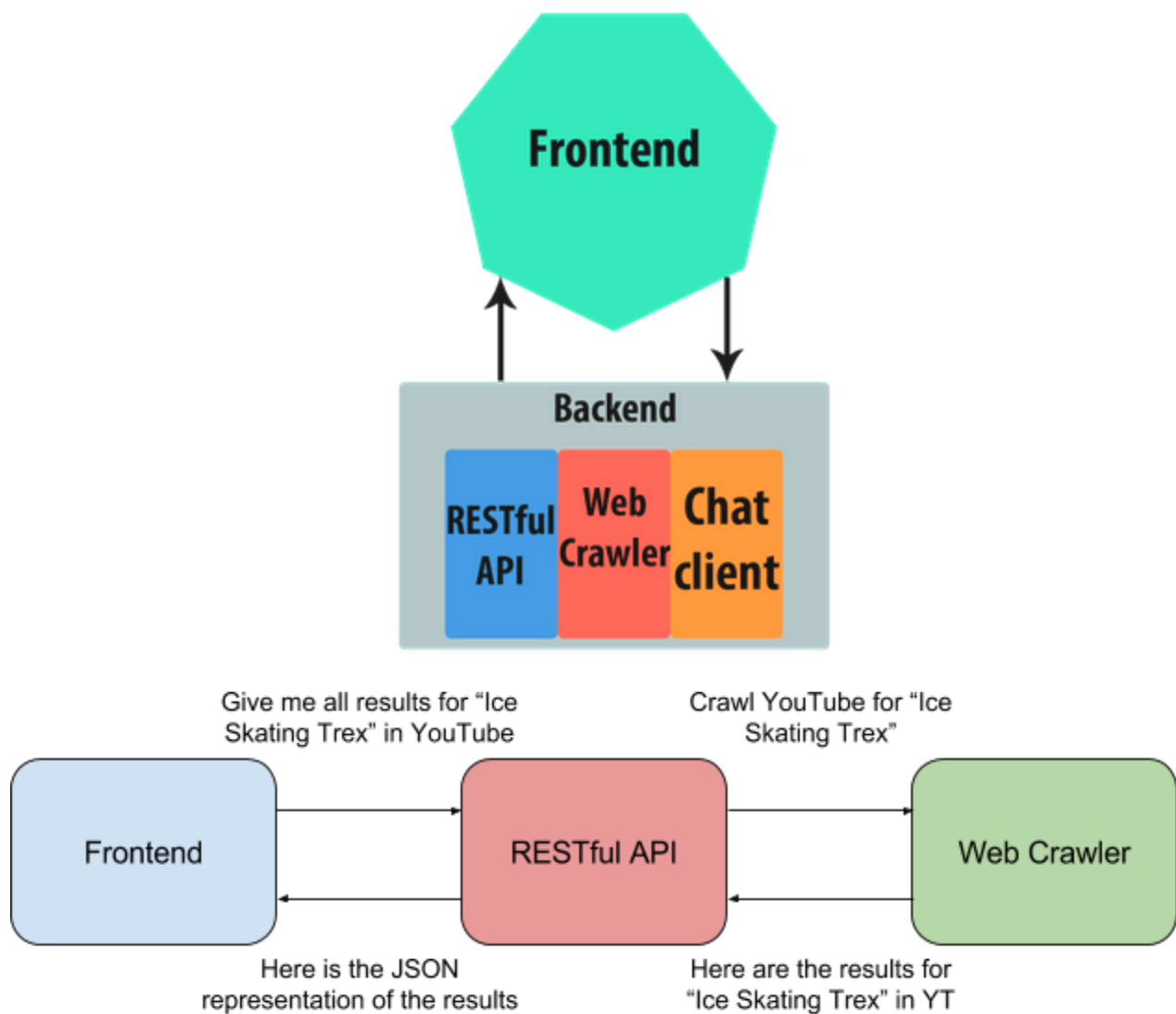


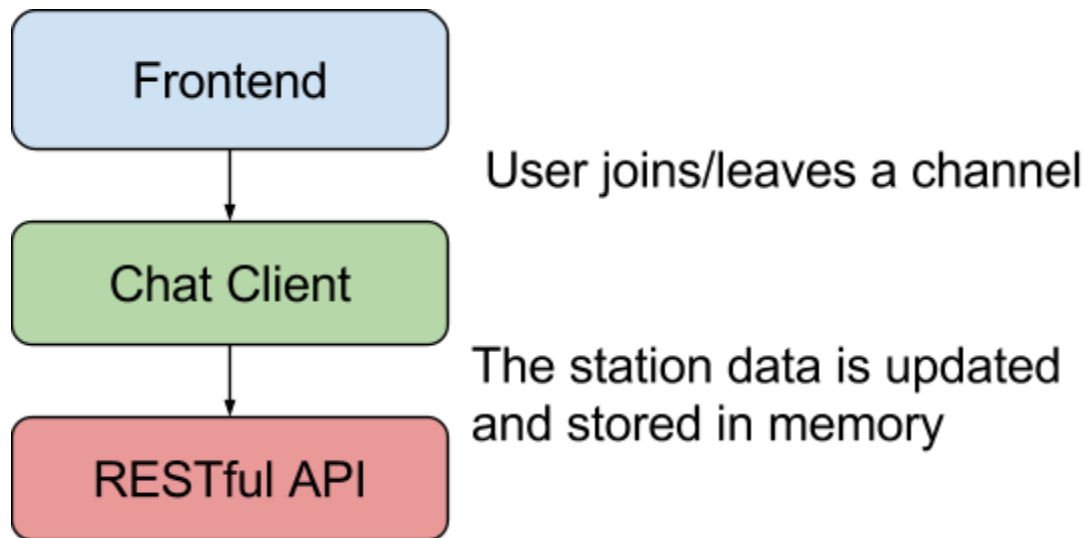
## **'Fennec' Incremental and Regression Testing**

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### Classification of Components:

- Define all components
  - Frontend Web Module
  - Chat Module
  - Web Crawler
  - Backend Module
- Which form of incremental testing did you follow
  - The form of incremental testing that we followed was Bottom-Up. We started our testing with the Server, which encompasses the RESTful Server, Web Crawler, and Chat Module, and then we tested the Frontend Web Module.





### Incremental and Regression Testing

The incremental and regression test cases will be evaluated based on the severity of the test cases and the solutions provided. The points are assigned as per priority – out of the total points for regression testing, 40% weightage is allocated for severity 1 defect, 35% weightage for severity 2 defect, 25% weightage for severity 3 defect. We will scale the total weightage of incremental and regression testing to 75 points.

Module	Frontend Web Module		
Incremental Testing			
Defect #	Description	Severity	How to Correct
1	Soundcloud media never finishes	1	Divide soundcloud's duration by 1000
2	Chat messages do not send correctly	1	Stringify the JSON output instead of outputting a pure js object
3	Voting to kick a user occasionally doesn't go through	2	Ensure the user is still in the room
Regression Testing			
	Description		
4	The chat bar isn't receiving any	1	Adjust the JSON format

	messages from the server		sent by the server
5	Creating rooms no longer responds	1	Ensure browser policy of blocking 'external' requests is disabled for local testing
6	User kick requests by click not working	2	Use # to identify ID in the jquery.

Module	Fennec Chat Module		
Incremental Testing			
Defect #	Description	Severity	How to Correct
7	Vote kicks don't remove users from the station	2	Fix message handling on the server side
8	Vote skips don't remove the currently playing media	3	Find the currently playing media and make sure to reset count to 0
Regression Testing			
Defect #	Description	Severity	How to Correct
9	The chat server no longer replies to messages when integrated with frontend	1	Fix how frontend sends and handles messages from the chat server

Module	Backend Module		
Incremental Testing			
Defect #	Description	Severity	How to Correct
10	The video countdown timer occasionally doesn't start	3	Ensure the server doesn't sleep
11	Video duration was null from	1	Call a separate

	initial call to YouTube API		YouTube endpoint which gives the duration
12	Backend was only locally visible (Since just the port is being bound, no IP)	1	Give the server a global IP to which it binds on start
13	There was no way for a client to retrieve all the information about a station	2	Open a new endpoint to return all the info with a given station id
<b>Regression Testing</b>			
<b>Defect #</b>	<b>Description</b>	<b>Severity</b>	<b>How to Correct</b>
14	The timer freezes rarely during videos, meaning anybody who joins will not be synced	2	There was a racing condition that can increment a duration variable twice. Basically just prevent it.
15	Station color was not updated on station creation	2	Rework if/else logic, assign default color then if a JSON request containing a color is given, update the color
16	The RESTful server won't return all of the infos about station object correctly	2	Python doesn't encode some custom objects correctly. So just wrote an encoder.