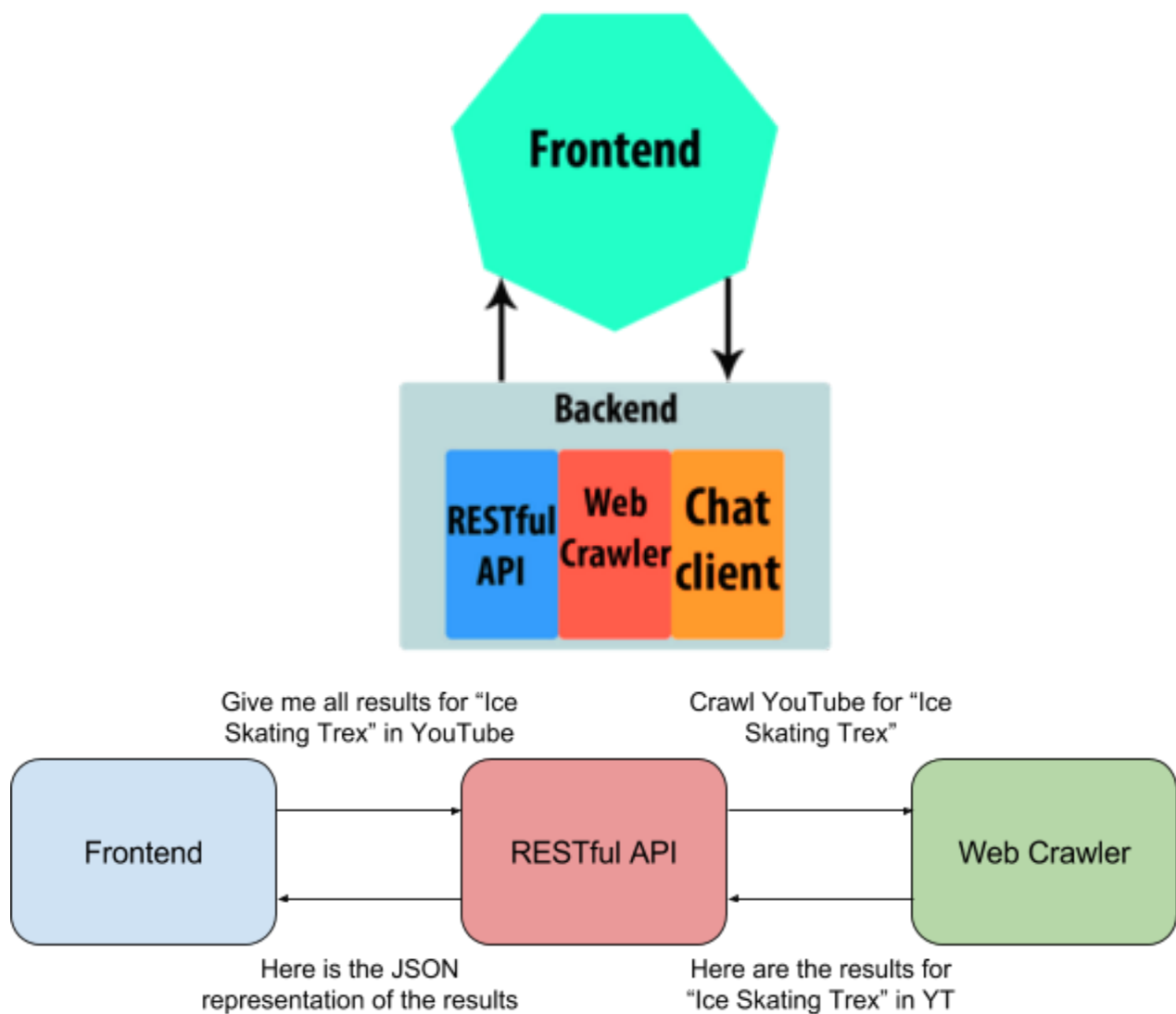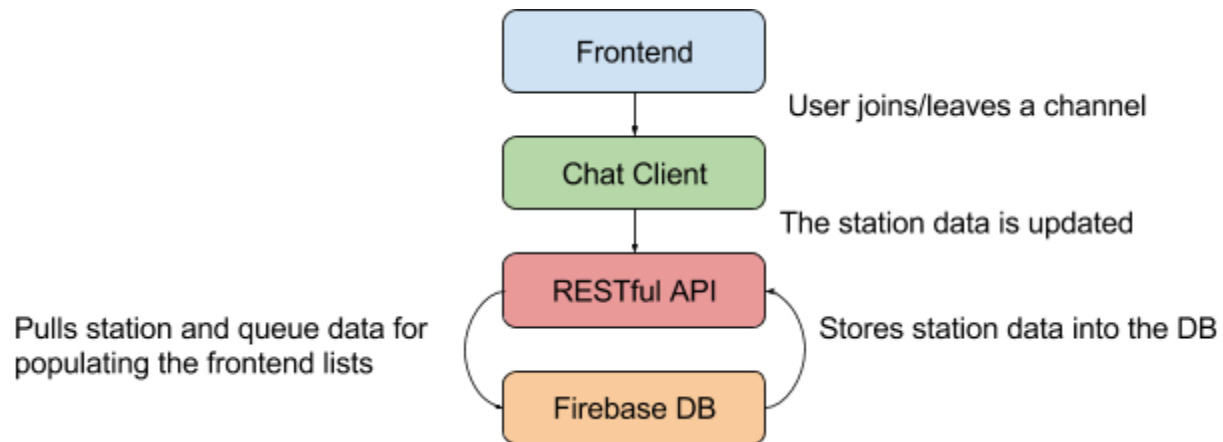# 'Fennec' Incremental and Regression Testing

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Classification of Components:

- Define all components
    - Frontend Web Module
    - Chat Module
    - Web Crawler
    - Backend Module
- Which for 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**
	Thumbnail was not displaying from soundcloud, even when the item had a given thumbnail	3	JSON was changed from 'thumbnail' to 'thumbnailURL'
	When a thumbnail doesn't load (soundcloud files often have no thumbnail) the results overflow	2	A placeholder image was used if there is no given thumbnail
Regression Testing			
	Description		
	Adding a box for changing username pushed the search box off the page	1	Adding a few exceptions to the CSS resolved the formatting issues.

Module	Fennec Chat Module		

Incremental Testing

Defect #	Description	Severity	How to Correct
	Notifications for votes/commands should appear in chat	2	Make sure the Server properly sends responses to the chat

Regression Testing

Defect #	Description	Severity	How to Correct
	Users with no authorization should not be able to call commands with only owner access	2	Make a check to confirm the identity of the user before executing the command
	One user can't be logged in multiple times	2	When users disconnect and reconnect, make sure they are removed and then restored

Module	Web Crawler Module		

Incremental Testing

Defect #	Description	Severity	How to Correct
	Crawler should not crash when an argument in invalid format is provided	1	Check the arguments to see if they are provided in the right format
	Crawler should not crash when no argument is provided	2	Check if all the required arguments are present
	Crawler should not crash when no results are returned by the API	3	Add special exception for when the api results are empty

Regression Testing

Defect #	Description	Severity	How to Correct

	Fixing a crawler crash when the frontend web module sends a request with invalid argument from user input	1	Catch exception when invalid argument and return a failure message to frontend

Module	Backend Module		
Incremental Testing			
Defect #	Description	Severity	How to Correct
	404 Not Found is returned when /api is called	3	Route /api/ to display a list of valid API endpoints
	Nothing is returned when /api/create is called	1	Create and return a JSON object with the new station information
	/api/<Station ID> does not return all elements within the station queue	2	Dynamically unload the station queue into a JSON object and then send it over the wire
Regression Testing			
Defect #	Description	Severity	How to Correct
	The allMedia method returns a single static JSON object created for testing	2	Dynamically unload the station queue into a JSON object