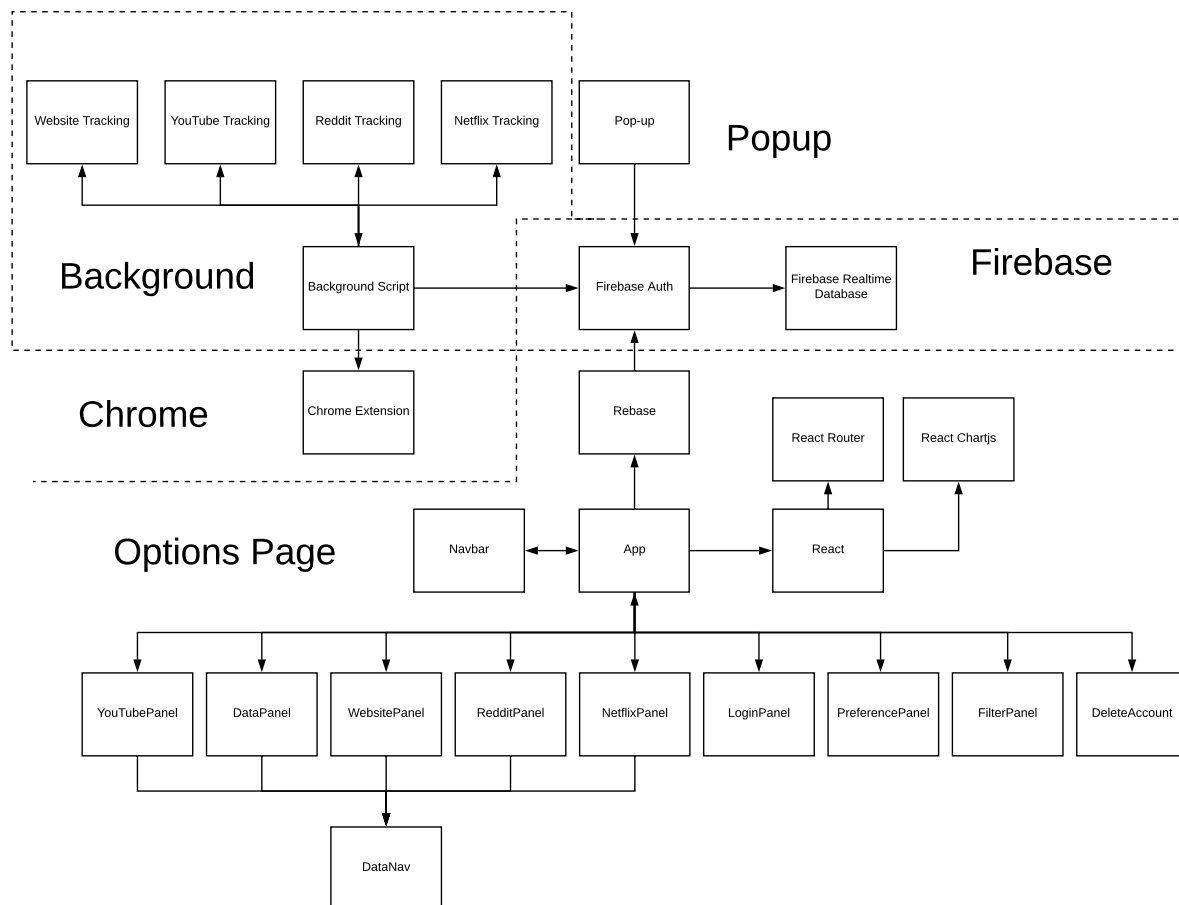# Team 22 - Logger

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Classification of Components

Chrome

1. Chrome Extension:
   Input: N/A
   Output: Chrome hooks
   Dependent components: N/A

Firebase

1. Firebase Realtime Database:
   Input: N/A

Output: Firebase API
Dependent components: N/A

2. Firebase Authentication:
   Input: Firebase API
   Output: Firebase authentication token
   Dependent components: N/A

Background

1. Website Tracking:
   Input: Chrome hooks
   Output: website name, network data aggregate, content-type network data
   Dependent components: Background Script

2. YouTube Tracking:
   Input: Chrome hooks
   Output: youtube channel name, video watch time
   Dependent components: Background Script

3. Reddit Tracking:
   Input: Chrome hooks
   Output: subreddit name, time spent
   Dependent components: Background Script

4. Netflix Tracking:
   Input: Chrome hooks
   Output: movies watch count, tv shows watch count, time spent on shows and movies
   Dependent components: Background Script

5. Background Script:
   Input: tracking data from sub components, authentication to firebase, chrome hooks
   Output: post data to Firebase Realtime Database
   Dependent components: Website Tracking, YouTube Tracking, Reddit Tracking, Netflix Tracking, Firebase Auth, Firebase API, Chrome Extension

Popup

1. Popup:
   Input: user click
   Output: post auth information to Firebase
   Dependent components: Firebase Auth

Options Page

1. Rebase:
   Input: Firebase Authentication, Chrome Extension
   Output: firebase hooks
   Dependent components: Firebase authentication, Firebase Realtime Database

2. React:
   Input: N/A
   Output: React framework
   Dependent components: N/A

3. React router:
   Input: N/A
   Output: React router framework
   Dependent components: N/A

4. React Chartjs:
   Input: N/A
   Output: React Chartjs framework
   Dependent components: N/A

5. Navbar:
   Input: Firebase authentication, React, user input
   Output: Navigation Bar View
   Dependent components: React, Firebase Auth

6. DataNav:
   Input: user input, React
   Output: DataNav view
   Dependent components: N/A

7. YoutubePanel:
   Input: firebase user youtube video data, React, DataNav view, user input
   Output: YoutubePanel view
   Dependent components: React, Rebase, DataNav

8. DataPanel:
   Input: firebase user data, firebase website data, DataNav view, Firebase authentication, React Chartjs, user input

Output: DataPanel view
Dependent components: React, DataNav, Rebase

9. WebsitePanel:
   Input: firebase website data, firebase website blacklist, firebase website filters, DataNav view, React, user input
   Output: WebsitePanel view
   Dependent components: React, DataNav, Rebase

10. RedditPanel:
    Input: DataNav view, React, firebase auth, firebase reddit data
    Output: RedditPanel view
    Dependent components: React, DataNav, Rebase

11. NetflixPanel:
    Input: DataNav view, React, firebase auth, firebase netflix data
    Output: NetflixPanel view
    Dependent components: React, DataNav, Rebase

12. LoginPanel:
    Input: firebase authentication, React, firebase google provider
    Output: LoginPanel view
    Dependent components: Firebase Auth, Rebase, React

13. PreferencePanel:
    Input: React
    Output: PreferencePanel view
    Dependent components: React

14. FilterPanel:
    Input: react modal api, react, post website filters, post website settings, websites, website blacklists
    Output: Filter Panel view
    Dependent components: React, Rebase

15. DeleteAccount:
    Input: React, firebase auth
    Output: DeleteAccount view
    Dependent components: React, firebase auth, Rebase

16. App:
    Input: React, React router, Rebase, All subcomponents
    Output: The view
    Dependent components: React, React router, Navbar, YouTubePanel, DataPanel, WebsitePanel, RedditPanel, NetflixPanel, LoginPanel, PreferencePanel, FilterPanel, DeleteAccount

Top down vs. Bottom up

We opted to use top down incremental testing. It seemed easier to start from the biggest component and slowly add smaller components as we complete testing. React lends itself to this kind of testing as well; it requires the upper components always and not always the lower components. The testing framework we're using (jest and enzyme) allows us to easily create "shallow components" that only include the larger components and none of the smaller ones that connect to them.

Incremental and Regression Testing

Background Modules

Module	Background Script

Incremental Testing

#	Description	Severity	How Corrected
1	Logging in on Logger site does not seem to update tracking	2	None Found
2	Retrieving url's from website tracker would cause the parser to obtain hostname to tack on a w- before the hostname	3	double slash from url was included

Regression Testing

#	Description	Severity	How Corrected
1	None Found	N/A	None Found

Module	Generic Website Tracking

Incremental Testing

#	Description	Severity	How Corrected
1	Logging in on Logger site does not seem to update tracking	2	Firebase wasn't using on function (auto updating)
2	Uploading information to firebase from Background after network traffic was monitored was out of sync	1	Had to perform transactional updates so that it doesn't need to be synchronous.

Regression Testing

#	Description	Severity	How Corrected
1	None Found	N/A	None Found

Module	Reddit Tracking

Incremental Testing

#	Description	Severity	How Corrected
1	None Found	N/A	None Found

Regression Testing

#	Description	Severity	How Corrected
1	None Found	N/A	None Found

Module	Youtube Tracking

Incremental Testing

#	Description	Severity	How Corrected
1	None Found	2	None Found

Regression Testing

#	Description	Severity	How Corrected
1	This module is not updating Firebase with the correct YouTube count in all scenarios.	2	Add logic to update Youtube Channel count when time is spent on the Channel's homepage.

Module	Netflix Tracking

Incremental Testing

#	Description	Severity	How Corrected
1	—	—	—

Regression Testing

#	Description	Severity	How Corrected
1	—	—	—

Options Page

Module	App

Incremental Testing

#	Description	Severity	How Corrected
1	None Found	1	None Found

Regression Testing

#	Description	Severity	How Corrected
1	When using the popup sign in option, the app will not open the data panel from the login panel.	1	Add a history push to data panel when the user signs in.

Module	YoutubePanel

Incremental Testing

#	Description	Severity	How Corrected
1	Time is in milliseconds	3	Format time correctly
2	Unneeded dummy data was included for a non-required feature	3	Removed dummy data

Regression Testing

#	Description	Severity	How Corrected
1	None Found	1	None Found

Module	WebsitePanel

Incremental Testing

#	Description	Severity	How Corrected
1	Website table won't load	1	Fix postFirebaseWebsiteSettings to return an empty array when there is no data
2	If filter settings are not set for a website it crashes	1	Add null check condition
3	Website data renders as N/A for everything	2	Initialize website for filter settings upon adding a new website
4	Deleting an entry doesn't permanently delete	2	Deleted from firebase

Regression Testing

#	Description	Severity	How Corrected
1	None Found	N/A	None Found

Module	NetflixPanel

Incremental Testing

#	Description	Severity	How Corrected
1	Deleting an entry doesn't permanently delete	2	Deleted from firebase

Regression Testing

#	Description	Severity	How Corrected
1	None Found	1	None Found

Module	RedditPanel

Incremental Testing

#	Description	Severity	How Corrected
1	Deleting an entry doesn't permanently delete	2	Deleted from firebase

Regression Testing

#	Description	Severity	How Corrected
1	None Found	1	None Found

Module	Navbar

Incremental Testing

#	Description	Severity	How Corrected
1	Page content overlapped navbar	3	Changed z-index of Navbar class

Regression Testing

#	Description	Severity	How Corrected
1	None Found	1	None Found

Module	DataPanel

Incremental Testing

#	Description	Severity	How Corrected
1	Didn't display the top 6 websites, but instead 6 websites because rebase wouldn't pull the information in the format that data panel needed it to from firebase	2	Reformatted the output of rebase function that DataPanel hooks into

Regression Testing

#	Description	Severity	How Corrected
1	None Found	1	None Found

Module	DataNav

Incremental Testing

#	Description	Severity	How Corrected
1	None Found	N/A	None Found

Regression Testing

#	Description	Severity	How Corrected
1	None Found	N/A	None Found

Module	FilterPanel

Incremental Testing

#	Description	Severity	How Corrected
1	Blacklisting accepts non-url user input	2	N/A

Regression Testing

#	Description	Severity	How Corrected
1	None Found	N/A	None Found

Popup Page

Module	Popup

Incremental Testing

#	Description	Severity	How Corrected
1	None Found	N/A	None Found

Regression Testing

#	Description	Severity	How Corrected
1	Combining the firebase into one module caused popup to break because it didn't have the proper information being sent to it to authenticate with google	1	Have Auth.js pass googleAuth to popup.