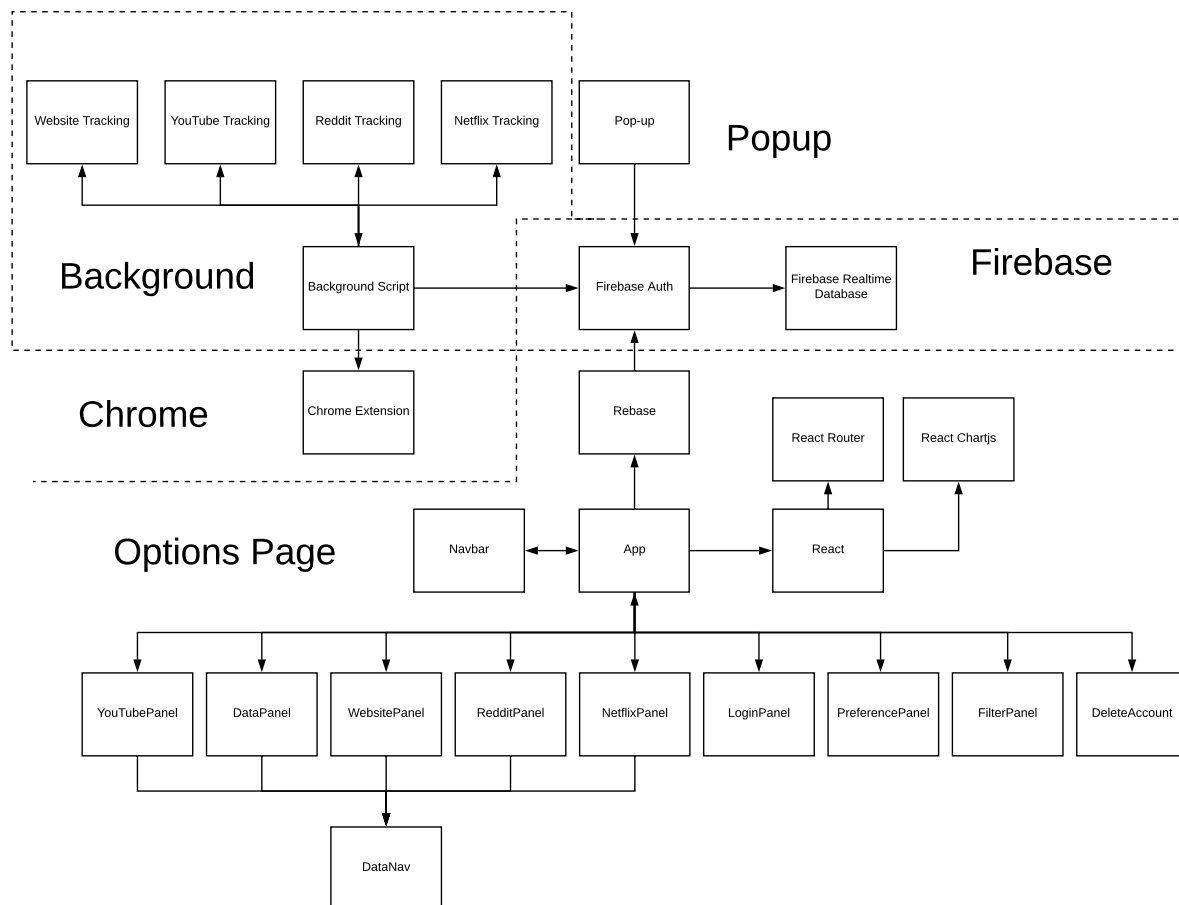


Team 22 - Logger

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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
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Incremental Testing

#	Description	Severity	How Corrected
1	N/A	2	N/A

Regression Testing

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

Module	Generic Website Tracking
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Incremental Testing

#	Description	Severity	How Corrected
1	N/A	2	N/A

Regression Testing

#	Description	Severity	How Corrected
1	Number of times visited does not update	1	Update call to Firebase

Module	Reddit Tracking
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Incremental Testing

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

Regression Testing

#	Description	Severity	How Corrected
1	Aggregate data does not increase with others	3	Update Firebase calls to update aggregate
2	Aggregate data does not decrease after deleting	3	Update Firebase calls to decrease aggregate

Module	Youtube Tracking
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Incremental Testing

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

Regression Testing

#	Description	Severity	How Corrected
1	N/A	2	N/A

Module	Netflix Tracking
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Incremental Testing

#	Description	Severity	How Corrected
1	—	—	—

Regression Testing

#	Description	Severity	How Corrected
1	—	—	—

Options Page

Module	App
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Incremental Testing

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

#	Description	Severity	How Corrected
1	N/A	3	N/A

Regression Testing

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

Module	WebsitePanel
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Incremental Testing

#	Description	Severity	How Corrected
1	Clicking category to update opens drop-down for all websites	3	Specify individual drop-downs and open individually
2	Updating category does not update inline category but only option in drop-down	2	Update inline text to specify category change instead of just drop-down
3	Monthly graphs do not load and display	1	Update use of graphing framework to consume data
4	Scrolling occurs behind monthly graph popup	3	Force scrolling to occur only in highest layer
5	Data table adjusts on mouse hover over randomly	3	Fix table positioning
6	Date column displays "Invalid Date" value for Last Visited column on some entries	3	Update date logging to consume data and format it properly
7	Selecting a category from the drop-down makes table display "other" instead of the category name	3	Update data to display the name of the selected category instead of defaulting to "other" on selection

Regression Testing

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

Module	NetflixPanel
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Incremental Testing

#	Description	Severity	How Corrected
1	N/A	2	N/A

Regression Testing

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

Module	RedditPanel
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Incremental Testing

#	Description	Severity	How Corrected
1	N/A	2	N/A

Regression Testing

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

Module	Navbar
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Incremental Testing

#	Description	Severity	How Corrected
1	Clicking settings before authentication brings PreferencePanel up	1	Ensure there is a current user before redirect

Regression Testing

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

Module	DataPanel
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Incremental Testing

#	Description	Severity	How Corrected
1	Graph is unreadable visually because lack of labeling	3	Added labeling to graphs

Regression Testing

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

Module	DataNav
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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
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Incremental Testing

#	Description	Severity	How Corrected
1	Default time limit is -1	2	Add check to generate message instead
2	Time is measured in milliseconds	3	Update for minutes instead
3	Checkboxes do not visually show stored state	2	Update to check box only if stored state is checked
4	Time limit multiplies 1000 visually but not in database	2	Update to not multiply
5	Save button does not give feedback or redirect	3	Provide feedback

Regression Testing

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

Module	DeleteAccountPanel
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Incremental Testing

#	Description	Severity	How Corrected
1	No feedback on account deletion	2	Implement 'Are you sure?' feature
2	No redirect after deletion to ensure no future logging	1	Force logout

Regression Testing

#	Description	Severity	How Corrected
1	Deleting account does not remove from authentication database only realtime	1	Force logout before deleting as staying logged in causes an error

Module	Download CSV
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Incremental Testing

#	Description	Severity	How Corrected
1	Download CSV button not responding	3	Correct function to be onClick
2	CSV file not downloading	3	CSV formatted data seems to need certain tag in front

Regression Testing

#	Description	Severity	How Corrected
1	When used on Youtube page it returns some error about a table not being found	2	Modified CSV formatting function to correctly format the firebase query
2	When button is clicked on netflix page the app crashed	1	Was using wrong firebase retrieval function for the data requested.

Popup Page

Module	Popup
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Incremental Testing

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

Regression Testing

#	Description	Severity	How Corrected
1	User ID not longer displayed in new Popup UI (since raw auth. object is no longer displayed to user).	3	Re-added just the user ID to new Popup UI.