Google's Friends Proposal: Jumble

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Summary:

Nowadays it feels like everybody has ten thousand apps that they use daily. We all use a messenger app, a social media app, a streaming service, and many more all the time. Not only that, but we all have multiple of each type. For example, I have 6 messenger apps installed on my phone right now and five video game launchers on my computer. It's a pain to have to search around for all these different services. Our solution to this is Jumble. Jumble is your home base for all services that you have access to. The idea is to make it your homepage for your browser (and maybe down the line a phone app or desktop app) that is your one-stop-shop for all your different services. You would spend 95% of your time on the site on the main page. There would be the apps you always use at the bottom (music app, other favorites such as youtube or tiktok) and then a layout akin to the windows start menu or phone app layout above that. There are predefined groups already made for you, such as messenger, streaming, game launchers, and social media. This would be the bulk of how the service is used, just opening it and having immediate access to all your services and then getting them open easily.

There would also be a large amount of customization. You would make an account with Jumble. This would allow for all of your settings to be synchronized across all of your devices. We could also have a first time setup where you go through all the commonly used services and add them to Jumble, after which you could customize the groups and locations of the services as you wish, even adding new apps if desired. There would also be the ability to customize the color scheme of the site (aka. the theme). This would be set from a couple of default presets, however there is potential to allow the user to put in whichever colors they wish. There would also be different backgrounds with each theme, again with the potential of letting the user put whatever background they would like. Additionally, Jumble could be a password manager for all of these apps. It would make sense to have where you launch all your apps also be the place where you store all your usernames and passwords for the respective apps.

There are many add-ons that we can include in Jumble for the future as well. For example, we can potentially have all the notifications from the apps be centralized in Jumble. We can also include a "notes" section to be displayed on the main page. Additionally, there is a lot of integration that we can include from the apps, such as Discord presence or a calendar built in. Finally, we can make it a social app with a chat system, something that says what their friends are doing, and a "friend's feed" that shows all recent social media posts from your friends. As you can see, Jumble can become something big.

Users:

Users of Jumble include anyone who uses devices and/or anyone who has a myriad of different apps such as college students, teenagers, and any tech-savvy adults. Nowadays most people have way too many different applications on their devices for the same general functions, such as messaging and entertainment apps. This causes stress and disorganization, but with Jumble all of your applications will be centralized on one main hub with convenience as the main priority. This allows users to simply log in to the app and access all their apps by category while also receiving notifications and being able to customize the layout of the main hub page. This is good for all device users, especially students who recently have had to switch over to a multitude of different online apps such as discord, slack, and many other class or school specific apps. In theory Jumble would also have a social aspect where you can connect with other users and see the portfolio of apps they use to get insight on what apps are popular.

Stakeholders:

Stakeholders of Jumble include the actual services, apps and platforms themselves along with friends and family of the users. Since all the apps that people use will be centralized and organized, people will be motivated to use the apps that they have downloaded. The services could see how their apps are doing based on how many people have their apps on Jumble. With the idea of being able to see friends' apps it will be easier for people to discover new apps that others are using which is beneficial to those apps of course. Another stakeholder would be content creators who would be able to share their platform, sponsored apps, etc. on the profile in Jumble which would make it very easy for their followers to stay connected through all of the creators apps. Friends and parents are also stakeholders in Jumble as Jumble will make it easier to create passwords and save them in the app. For example, many parents normally pay for and download streaming services and apps and this leads to kids constantly having to ask for passwords and usernames especially when there are so many apps and therefore so much login info. Jumble makes this easier by allowing users to store and share passwords and usernames.

Technologies:

The technologies that we intend to use on the front end include HTML, CSS, and JS. Using CSS and HTML we want to have a clean look that is very accessible. Also using CSS we will have customizable themes/layouts for users to make their hub how they want. For database inclusion we plan to use MariaDB, php, and JSON for username/password and storing of user data. The database will be used heavily since there is a lot of data per user when it comes to all the apps and customizations they have. If we do end up doing API

integration (discord) and having a social aspect with friends there would be other technologies involved.

Functional/Non-functional Requirements:

Upon first entering the website, the user will be directed to a login page where they have the option to either enter their credentials and log onto the site or go through the account creation process. When a user first creates their account, they will be asked for an email address, user name, and password. After they enter a valid email address and the username is not taken, the user now has full access to the site. Their personal information will be securely stored in a database. Upon logging into the site for the first time, the user will be prompted with a questionnaire where they can choose which services they want to add to the site's homepage. The user can always manually add and remove services to their liking in case they change their mind on anything. After the questionnaire is filled out, the user can now see their homepage with the services that they specified in their default grouping. The user can always change where the groups are positioned and also change what is in each group and add/remove groups to their liking.
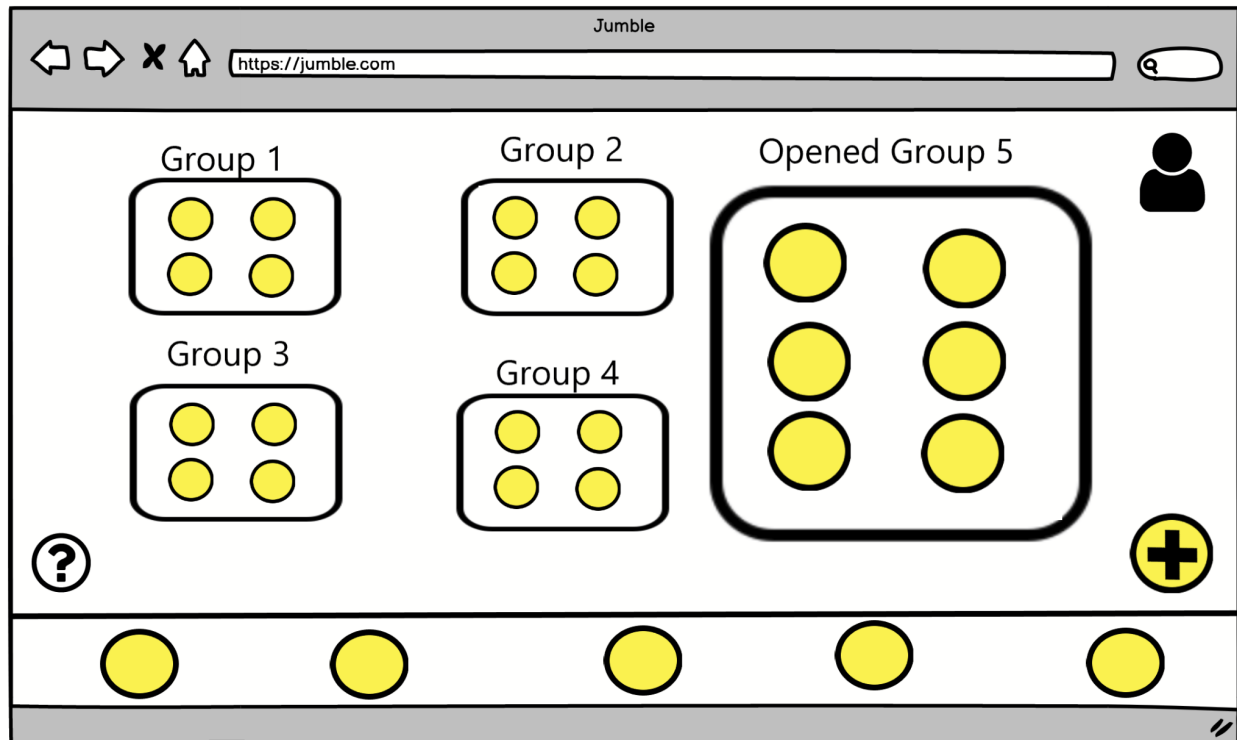
As for non-functional requirements, we will focus more on the user experience and ease of use, while providing the security that is to the best of our standards. The whole purpose of this project is to provide a hub where users can have a centralized space that reduces the clutter of your tabs. As a result of that, the website will provide the user with a host of customizability - the ability to pick and choose which services to display and where to display them, the ability for the user to change the groupings of their services and organize them to their satisfaction, and a array of color schemes to select from to make the site more agreeable to different aesthetics. Apart from convenience and ease of use, a big focus for the site will be security. One potential feature of this project is to have a verification email be sent to the user upon account creation where they have to copy and paste a code that was sent through the email, and also every time the user logs in from a device that is not recognized, they will be prompted to have another verification email sent to them just to be sure that everything is alright. Additionally the storing of usernames and passwords is not core to the idea of Jumble but is a nice addition. This would also require solid encryption being used effectively.

Schedule:

Task	Estimated completion/deadline
Project proposal and presentation including TikTok video	September 17th
Create mockup of user interface	September 22nd
Draft up HTML & CSS	October 1st
Integrate javascript	October 8st
Midterm presentation + finalizing app for it	October 15th
Set up the database for user/password	October 29th
Storing and reading of user data so settings/themes/location/app/etc are saved	November 12th
Project preview day + finalizing	November 30th
Final presentation + final finalizing	December 3rd & 7th

Wireframes:

Main Page:

Yellow circles are the various apps/services. Profile in the upper right. The groups are very much akin to apps on a phone. At the bottom are your easy to access apps. The app icon with the "+" on it is how you would add more apps or groups. The question mark would bring you to the about page. This would all be very colorful with a fun background.

Settings:

The settings page with a customizable name and icon. The email and password would be here as well. Finally, there would be customizable parts here such as themes to pick from or a background that you can upload yourself.

Sitemap: