

Project Proposal: MaskerAid

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Introduction and Background

MaskerAid provides a creative outlet amidst COVID-19 while also bringing awareness to the use of face masks. Due to the current situation, many individuals have designed and created their own face masks at home. Our application allows them to share their designs as well as find inspiration from others' designs. Additionally, MaskerAid is targeted for anybody who is affected by COVID-19. Our group was inspired from modern social media platforms which bring communities together despite distance. By adapting such a platform to cater to COVID-19, we hope to provide a light-hearted and supportive safe space for users.

Features

We intend to include numerous features to the app to make it as welcoming and user-friendly as possible. We intend to have a scrollable feed that one can go through to see the numerous masks people have created (like instagram's scroll feed). In addition, our group also plans to create a user profile page where one can see a user's profile picture and all the masks he or she has shared. Thus, we plan to have a username/password system one can use to access/edit their profile as well as a basic signup page linking each user to their email. We also plan to have a comments section for each post as well as a heart button each user can tap to like a post. In addition, we also plan to have a search box where one can search up a specific username and view their profile. Finally, we also plan to create a nice post page that is very user-friendly so people can share a mask with the rest of the world as quickly and as effortlessly as possible.

Technology Stack

Our app will be built with React Native using the Expo toolchain to make it easier to deploy the app for testing and have a live preview while developing. While Expo does not allow for the use of Native Modules in Objective C/Swift/Java, we don't plan on needing them for this project. We intend to use the AWS Amplify library to hook into AWS Services. The library provides UI Components and easy integration with several AWS services we plan to use including S3 for storing images, AWS Cognito for Auth (Username, Email, Password), and a GraphQL API to access our NoSQL database (with DynamoDB). We plan on using Lambda functions as our primary backend for anything that needs to be done server side and isn't already covered.

Timeline

Our team's main form of communication will be weekly Zoom calls and messenger chats. For now, every member is quite open on what parts of the project they want to work on, although Gary has some experience working on front-end development and React Native, and Alexander has experience with back-end development. Liah and Kaivalya don't have nearly as much exposure with either, but are open to learning either. More concrete dates on when features will be implemented will be set in the near future, but ideally, goals will be set weekly and adjusted accordingly.