



# Objective

- Inspired by modern social media platforms
- Bring awareness to how people can use at-home resources and their own creativity to do their part in slowing the spread of COVID-19
- Provide a creative outlet
- Bring communities together

### **Features**

- User authentication/Google sign-in
  - Tutorial walkthrough/Message before sign-in
- Home Page
  - Infinite Scrollable feed
    - Lazy Load posts as you scroll down
    - Progressive Image loading with low-res thumbnails
    - Toggle the feed to view all posts, or only posts from users you follow
  - Video support
    - Toggle sound for video
    - Videos auto-pause once you scroll past them
  - Like and comment on Posts
    - Double tap to like
    - Like and add individual comments

#### Post Page

- Upload images and videos with captions
- Profile Page
  - Edit profile
  - o Display all posts, followers, profile picture, name
  - Create custom themes on the profile page
  - Follow other users and view their posts on their profile page
- Search Page
  - Search either for a user or a specific caption
  - Results are displayed as you type (no need to press a search button)
- Direct Messages
  - o Real-time messaging
  - Messages screen shows all users you've had conversations with
  - o Find users in the search tab or from the home feed

#### **Features**

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- App Theming
  - User's can choose their own theme color for the entire app
  - The theme is automatically saved in the user's account and persists after logging out/closing the app
- Account Deletion
  - User's can delete their accounts and their corresponding posts/messages will be deleted from the backend and the search index

## Technology Stack

- React Native
- Firebase
  - NoSQL Database (Firestore)
- 3rd Party Sign in with Google
- Image Compression
  - Resizes photo and compresses client side before upload
  - Thumbnails of every photo are generated server side and are loaded onto device while the full-res version loads
  - Once loaded, the blurry thumbnail dynamically transitions to reveal the full-quality version
- Realtime-Updates of photo feed and like count
  - No reload required to see new posts/likes
- Atomic writes to database ensure that a post either fully succeeds or fails, preventing a case where a post is written to the database without a corresponding photo.

