Milestone 2: Gram app

Jacob Morris, Jess Nguyen, Matthew Ostrowski, Andy Xue
App Personality

Friendly  Corporate
High energy  Carefully thinking
Modern  Classic
Fun  Serious
Accessible to all  Expensive
Frontend Design + Justification

- Clean and minimalistic
  - Makes for easy-to-use and intuitive app

- First impression matters!
  - Log In / Sign Up screen should be dynamic and fun

- Muted color scheme (white and light yellow)
  - Don’t want to distract user
  - Focus should be on the photos themselves
Wireframes - Low fidelity
Wireframes - High fidelity

Log In (Current)

Sign Up (Current)
Wireframes - High fidelity

Newsfeed

Community

Profile
Designing Backend

User
- UID
- profile photo
- full name
- bday
- summary
- communities
- email
- username

Photo
- PID
- tags
- caption
- date posted
- URL

Followers
- FollowerID
- FollowingID

Comment
- CID
- date posted
- message
- PID

Community
- tag
- name
- summary

Likes
- PID
- postType
- UID
Sample queries

- Find a user entry by email

```swift
let db = Firestore.firestore()

db.collection("users").whereField("email", isEqualTo: userEmail)
```

- Search users by username

```swift
let docRef = db.collection("users")

// query where name starts with the input info
let query = docRef.whereField("username", isGreaterThanOrEqualTo: name)
    .whereField("username", isLessThanOrEqualTo: name + "z")
    .orderBy("username", descending: true)
```
Sample queries

- Return the info related to a user with username

```javascript
let docRef = db.collection("users")
let query = docRef.whereField("username", isEqualTo: user.username)
```

- Find userIDs followed by provided user

```javascript
let docRef = db.collection("followers")
let query = docRef.whereField("followerID", isEqualTo: userID)
```
Other Queries Needed

- Posting pictures
- Populating user feed from followers
- Posting and getting comments on a photo
- Posting and getting likes on a photo
- Generating communities
- Update profile info
Live Demo

Three basic functionalities: log in/sign up + search + follow/unfollow