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# Functionalities & Features

- Login
  - Username & Password
  - Facebook
- Profile Page
  - Personal account info
  - Profile picture
  - Followers/Following
- Feed Page
  - Pictures from future algorithm

# Functionalities & Features

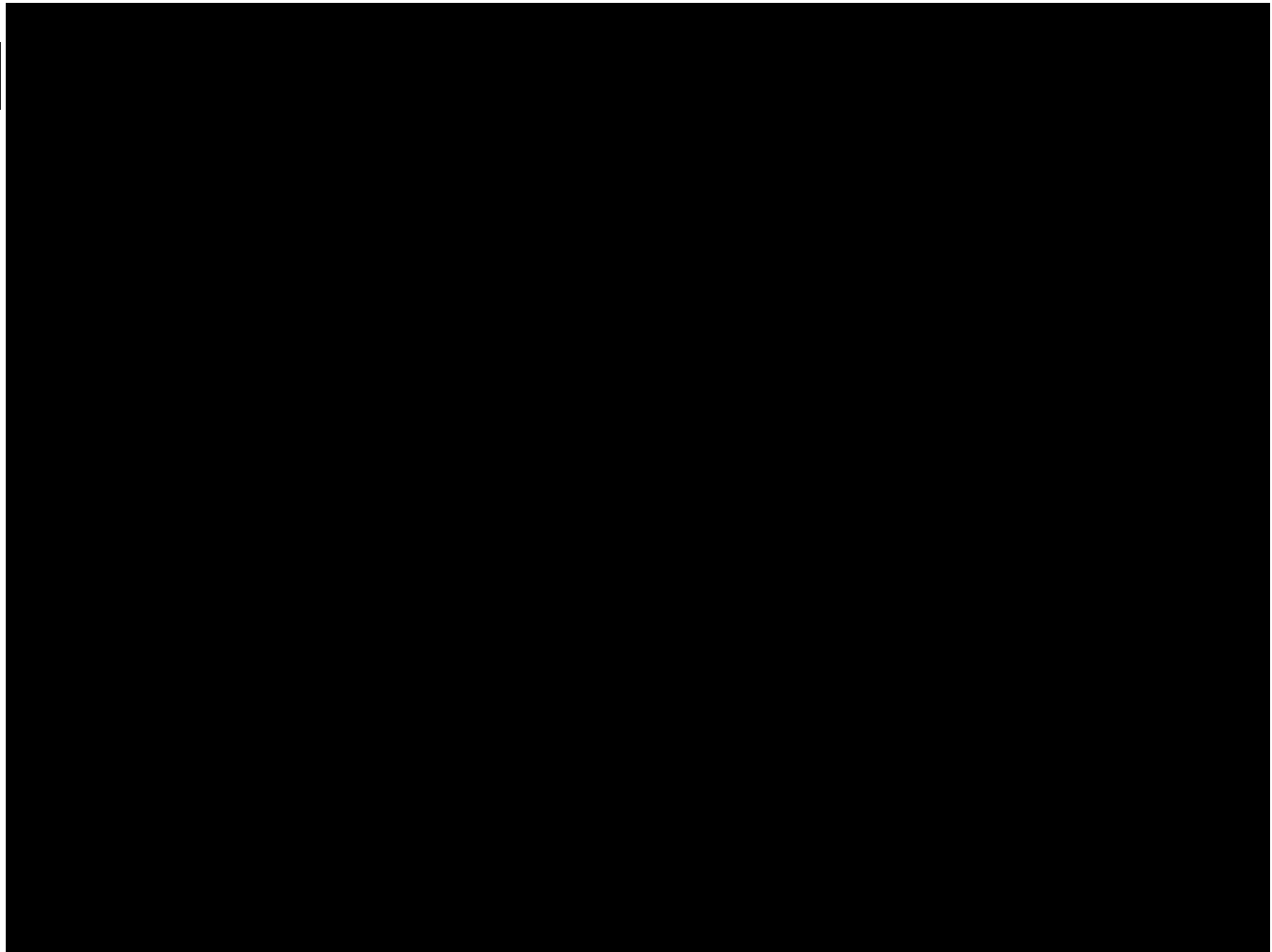
- Following/Followers
  - List of users to follow
    - Swipe to follow
  - List of users being followed
  - List of user following you
- Search
  - User list with future application

# APP Personality

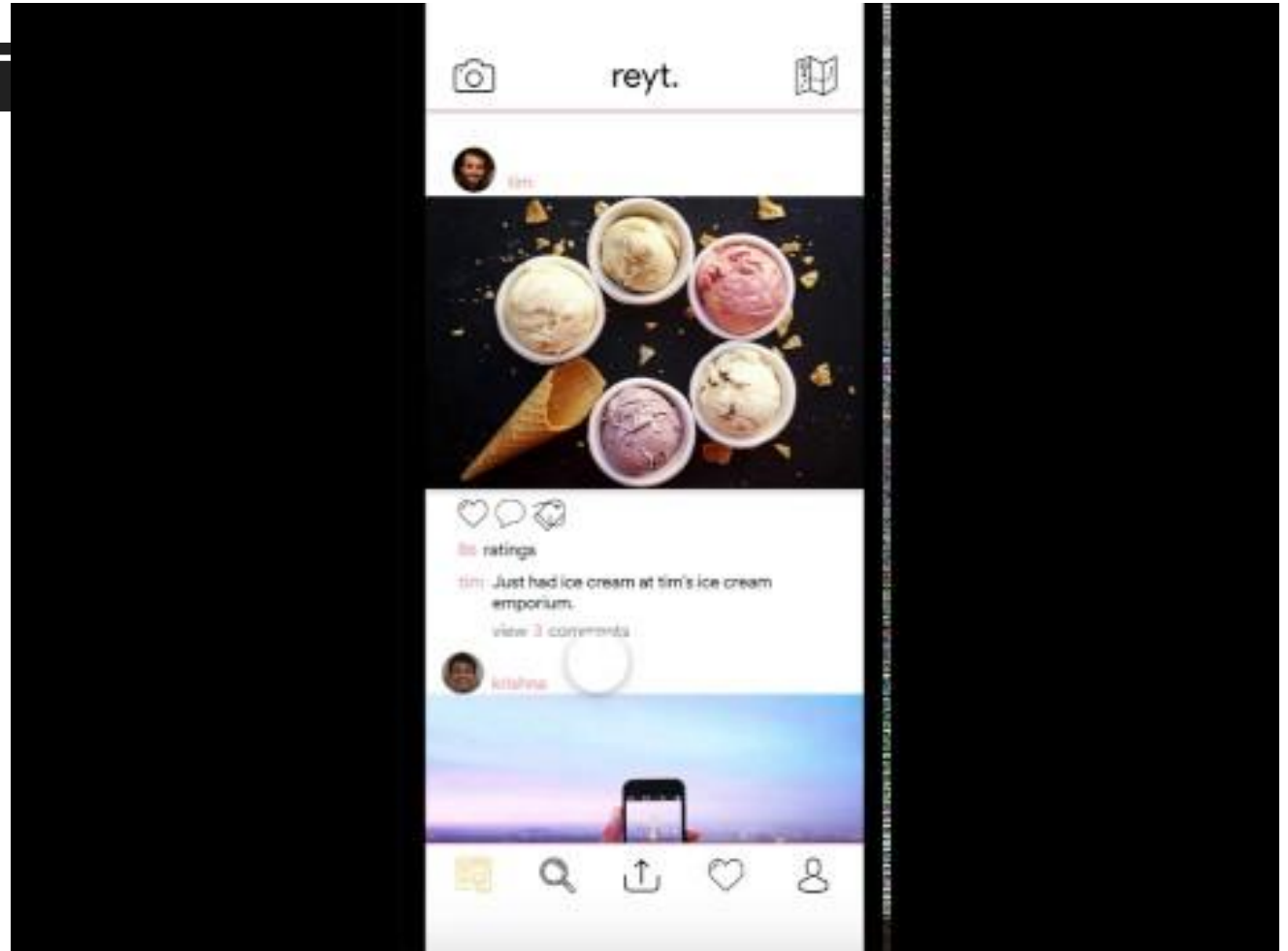


abcdefghijklmnop  
qrstuvwxyz

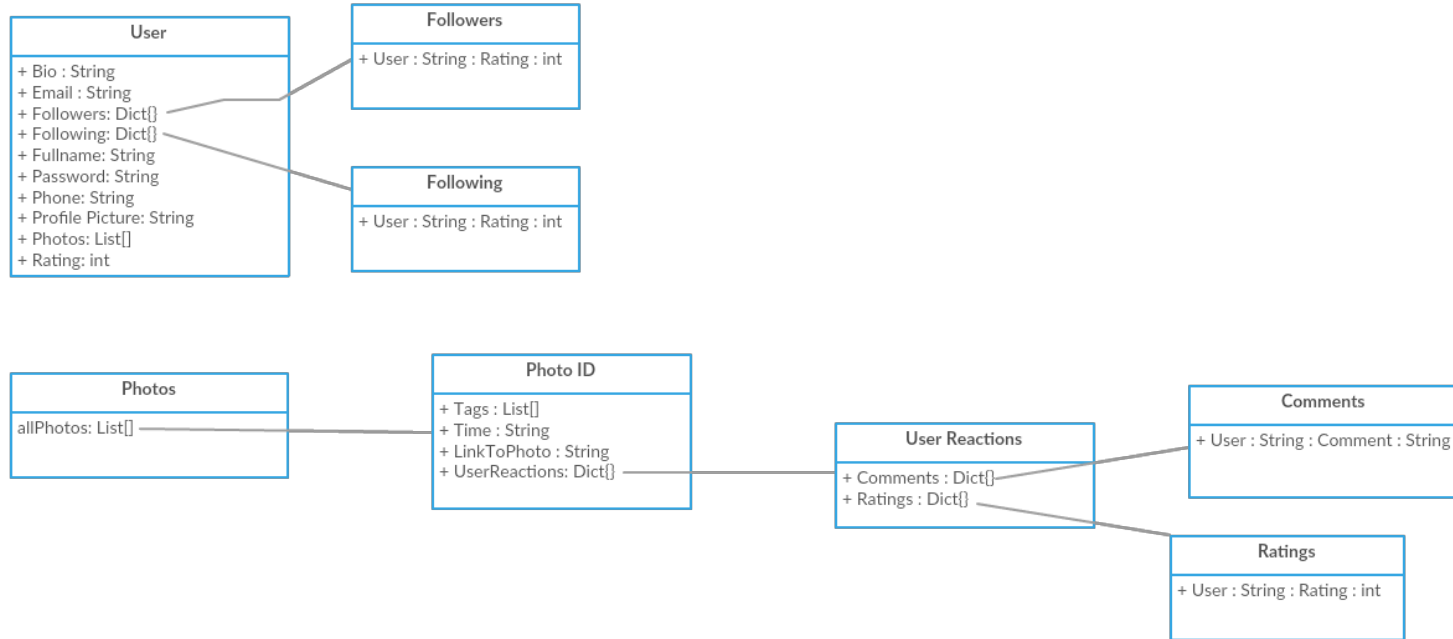
**Low Fidel**



# High fidelity

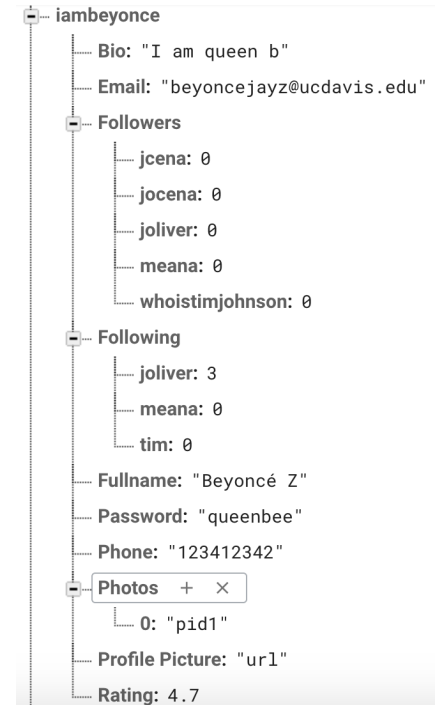


# Database SCHEMA



# Database view - user

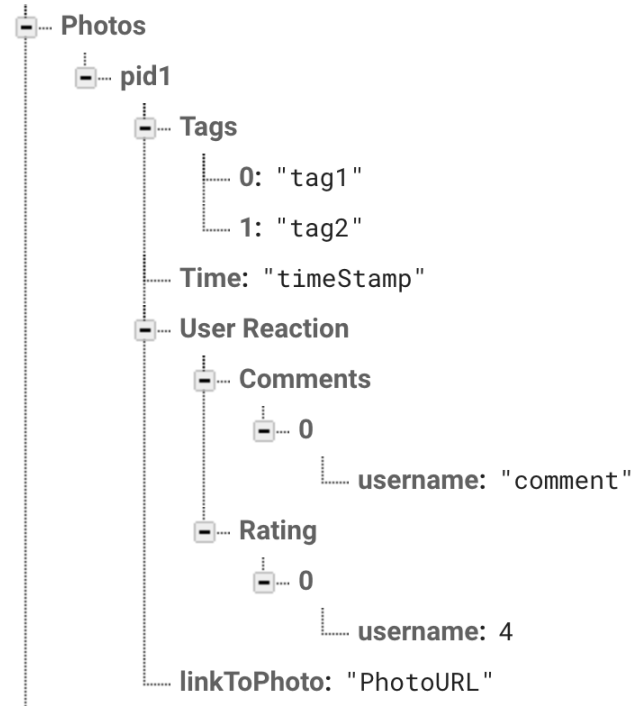
- The user retains all the regular user details.
- Has a list of following Users and followers.
- Also has a identifier for images posted.
- Each follower also has their ratings for calulations on highest rated users followed.





# Database view - photos

- Photos have unique ids
- Tags based on related topics
- Time stamp
- User reactions for ratings & comments.
- Link to the photo



# Querying Data

- For querying data within Firebase, we would need to create a reference to our Database within our program.
- We would need to read from and write to children of our application. This was done utilizing Firebase's inbuilt API.

# Queries Used - writing

- **Writing Data:**
- `firebaseReference.child("Users").child(username).child("Name").setValue("John Cena")`
- Equivalent to: update Users set name= "John Cena" where username=username;

When we **create an account or update the account or adding new followers** information we query the database to write/update the database.

# Queries used - reading

- **Reading Data:**
- `firebaseReference.child("Users").child(users_username).observeSingleEvent(of: .value, with: { (snapshot) in  
let value = snapshot.value as? NSDictionary  
value?["Fullname"]...`
- **Equivalent to:** `select Fullname from Users where username = users_username;`

We query the database to read to retrieve account information when **logging in or displaying user information or accessing the list of users when adding followers.** We use this to retrieve all relevant information for each page.

# Queries used - delete

- **Deleting Data:**
- `firebaseReference.child("Users").child(username).child(follower).child(follower_name).removeValue()`
- **Equivalent to:** delete from users follower=follower\_name where username=username;

These queries are used to **remove users from a list of following users.**

Demo!