

Milestone 2 Presentation

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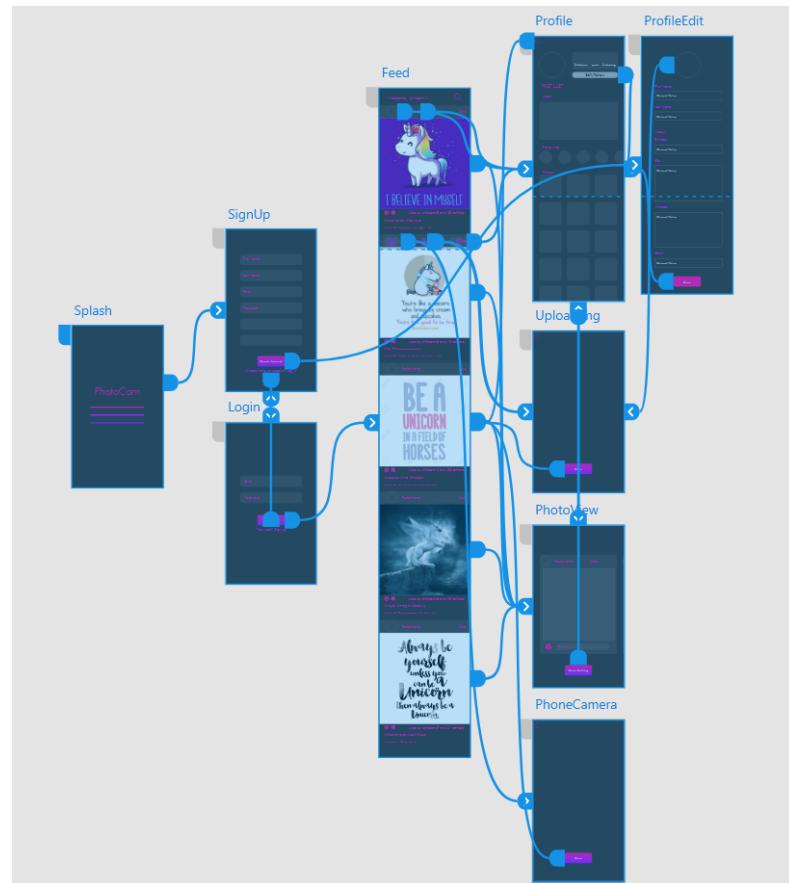
App Personality and User Interface

- Fun
 - Bright color accents (pink, purple)
- Friendly
 - Easy to use
- Modern
 - Full screen images
 - Slick dark theme color scheme
- Accessible to all

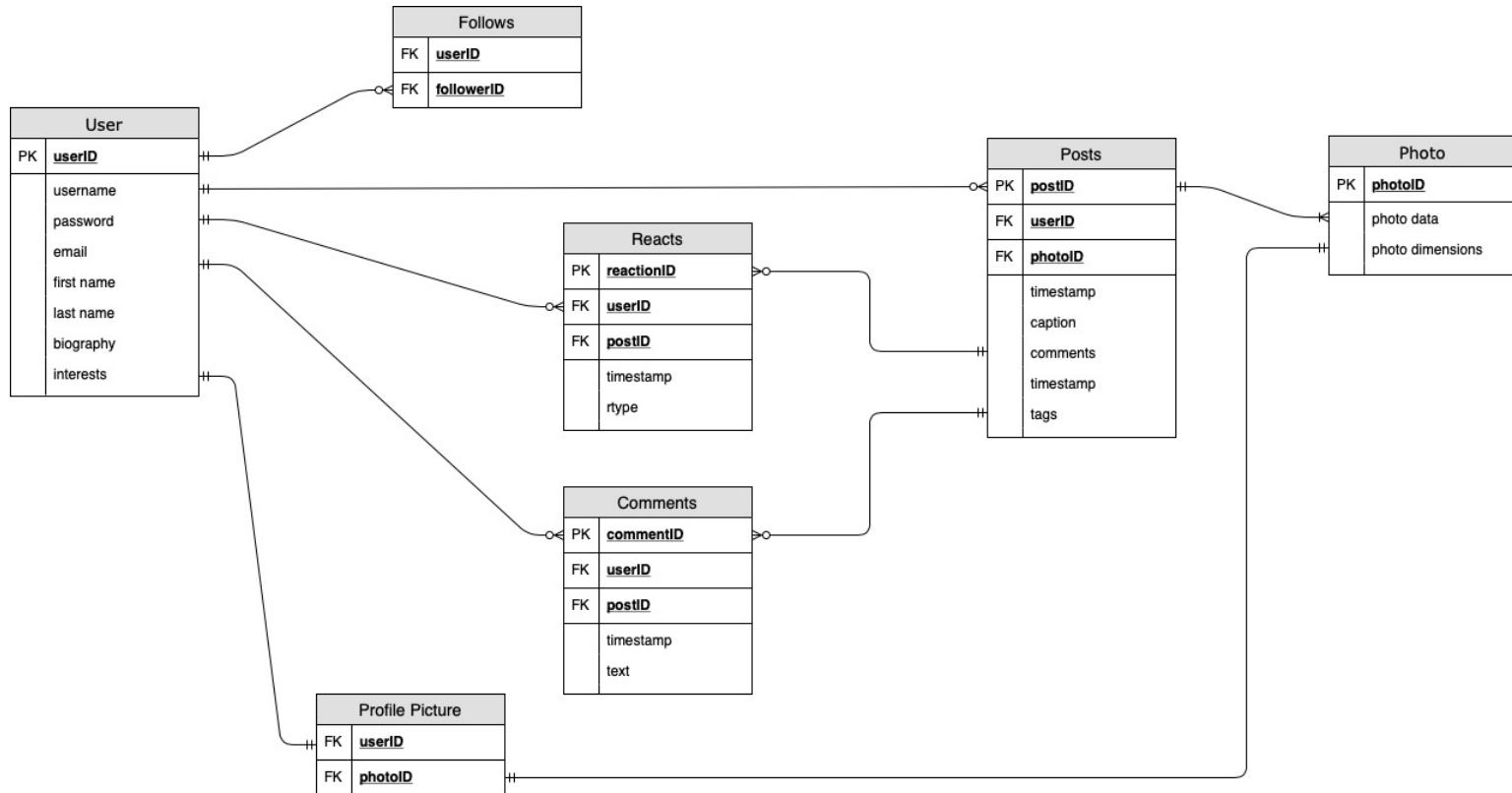


User Experience

- Sign Up Page
- Edit Profile
- View Profile
- Activity Feed
- New Post



Database Schema



Sample Queries

Integrity Constraints

- Domain Constraints
 - Most values are type string
 - Some shouldn't be: dates, image
- Entity Integrity Constraints
 - Primary keys can't be null
 - Example: userID for users table
- Referential Integrity Constraints
 - Some tables can only have entries that are the key of other tables (foreign keys)
 - Example: Followers/following cannot have uid's that are not in the user table
- Key Constraints
 - All primary keys must not have multiple entries
 - Example: No two userIDs in the users table can be the same

Creating a New User

```
handleSignUp = () => {
  const { email, password, firstname, lastname, dob } = this.state
  firebase
    .auth()
    .createUserWithEmailAndPassword(email, password)
    .then(function(user) {
      var user = firebase.auth().currentUser;
      firebase.firestore().collection("users").doc(user.uid).set({
        first: firstname,
        last: lastname,
        email: email,
        dob: dob,
        uid: user.uid,
      }).then(function() {
        this.setState({isSignedUp: true});
      }.bind(this))
      .catch ((error) => {console.error(error);});
    }.bind(this))
    .catch(error => {console.log(error.message)})
}
}
```

Getting a User's Name

```
users_ref = firebase.firestore().collection("users");
users_ref.doc(firebase.auth().currentUser.uid).get().then(function(doc) {
this.setState(
{
    currentUser: firebase.auth().currentUser,
    name: doc.data().first,
    isLoading: false
}
);
}.bind(this)).catch ((error) => {console.error(error);});
```

Set User's Profile Information

```
var user = firebase.auth().currentUser;
user.updateEmail(email).then(
  firebase.firestore().collection("users").doc(user.uid).set({
    first: firstname,
    last: lastname,
    email: email,
    dob: dob,
    uid: user.uid,
    interests: interests,
    bio: bio,
  }).then(function() {
    this.setState({finishedEdit: true});
    console.log("inside set " + user.uid)
  }.bind(this))
)
```

Get all comments for a post

```
var pid = "Igjbk7QU785VY87baHOY"
commentsRef = firebase.firebaseio().collection("Comment")      commentsRef.where("postID", "==",
pid).get().then(function(querySnapshot) {
  querySnapshot.forEach(function(doc){
    console.log(doc.data().text);
  });
});
```

Get all users the current user is following

```
follows_ref = firebase.firebaseio().collection("Follows");
follows_ref
.where("userID", "==", firebase.auth().currentUser.uid)
.get()
.then(function(querySnapshot) {
  querySnapshot.forEach(function(doc) {
    console.log(doc.data().followedID);
  });
})
```

Get Number of Reactions to a Post

```
postID = "Igjbk7QU785VY87baHOY"  
numReactions = 0  
reaction_ref = firebase.firebaseio().collection("Reaction")  
reaction_ref.where("postID", "==", postID).get()  
.then(function(querySnapshot) {  
    querySnapshot.forEach(function(doc) {  
        numReactions += 1  
    });  
    console.log(numReactions)  
})
```

Get up to 10 most recent posts from users that this user follows

```
//Get up to 10 most recent posts from users that this user follows
follows_ref = firebase.firestore().collection("Follows");
var followed = [];
follows_ref
.where("userID", "==", firebase.auth().currentUser.uid)
.get()
.then(function(querySnapshot) {
    querySnapshot.forEach(function(doc) {
        followed.push(doc.data().followedID);
    });

    var post_captions = [];
    var post_timestamps = [];

    posts_ref = firebase.firestore().collection("Posts")
        //get the Posts collection

    posts_ref
        .orderBy("timestamp")
        .limit(10)
        .get()
        .then(function(querySnapshot) {
            querySnapshot.forEach(function(doc) {
                if (followed.includes(doc.data().userID)) {
                    post_captions.push(doc.data().caption);
                    post_timestamps.push(doc.data().timestamp);
                }
            });

            console.log(post_captions);
            console.log(post_timestamps);
        })
    })
})
//get the Follows collection
//this will contain the users that this user follows
//Look in follows table for this user
//for each match
//add to followed array
//will contain the captions for 10 most recent posts
//will contain the timestamps for 10 most recent posts
//get the Posts collection
//order by time
//get up to 10
//for each match
//if this post's poster is followed by this user
//print captions array
//print timestamp array
```

New Features

- Signup field validation
 - Unique user
 - Unique email
 - Password length > 6
- Profile edit
 - Edit user data (bio, interests)
 - Upload a profile picture (stores in database)
 - Auto-reload profile picture from database when changed
- Profile view
 - View your own profile
 - View profile picture (downloads picture from database)

Live Demonstration