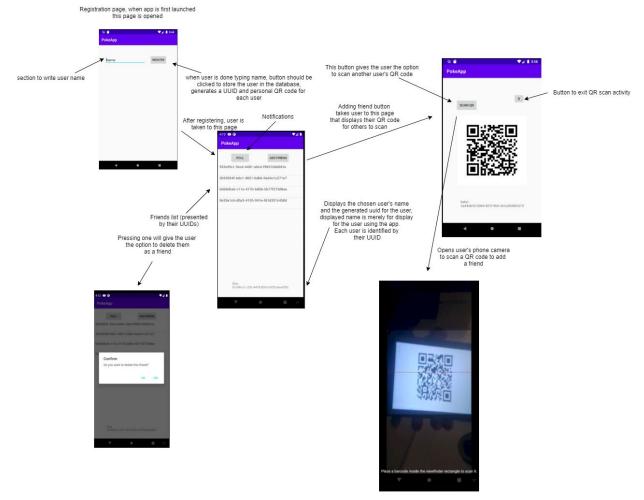
Zach Lefin, Jake Nichols, Helen Kim Jackson Rhini, Max Graef Professor Shreesha Nath CSCI 3308 30 October, 2020

# Team 1 Milestone #4

#### Revised List of Features:

- Registration
  - Upon opening the app for the first time, the user can register any name. That
    name and a unique ID/UUID are stored on the device until the app is uninstalled.
    This only happens once after app installation; if the user has already registered,
    they cannot change their name.
- Add/Remove Friends
  - Each user has a UUID and an associated QR code that can be displayed and scanned to add them as a friend.
- Friends List
  - The main view of the app is a list of friends. You can tap a friend to send them a "poke", one of a set of premade short messages, or hold down on a friend to remove them from the list.
- Pokes
  - You can send pokes as described above from the friends list. When a friend sends a poke to you, if the app is open in the background or foreground, you will receive a notification with the sender and contents. Clicking the notification will open the app (if it isn't open already).
- Notifications
  - These are the representations of received pokes. As mentioned, clicking one will automatically put the app in the foreground.

#### Front End Design:



#### Also available in drive folder:

https://drive.google.com/drive/u/0/folders/1mZKWhlsWQrACFRrsw1pTgyehYlRh3gJp

## Web Service Design:

(All endpoints must be accessed with POST requests)

- /poke/register
  - Args: name String
  - Returns: generated uuid UUID
- /poke/update
  - Args: user UUID
  - Returns: name String, friends [[friend name String, friend uuid UUID], ...]
- /poke/poke
  - Args: user UUID, target UUID, payload String
  - Returns: status String
- /poke/poll
  - Args: user UUID
  - Returns: pokes [[friend uuid UUID, payload String], ...]

- /poke/friends/add
  - Args: user UUID, target UUID
  - Returns: status String
- /poke/friends/delete
  - Args: user UUID, target UUID
  - Returns: status String

### Database Design:

The Poke app database currently stores 2 tables:

- 1 User
  - uuid CHAR(36) PRIMARYKEY
  - name VARCHAR(36)
  - reg date DATETIME
- 2. Friend Stores all user-friend pairs, and the number of times poked
  - user uuid CHAR(36)
  - friend uuid CHAR(36)
  - added date DATETIME
  - total pokes INT

#### **Individual Contributions:**

- **Zach:** Refactor all requests functionality into 1 manager class. Add background update/polling threads to make network requests while the app is not in the foreground / active.
  - Most recent commit (as of writing)
- **Jake:** Mostly code cleanup with Zach since last milestone. Did not do as much work after finishing with client-side requests. Moving on to work on notifications/polling.
- Max: Implemented QR generation based on UUID. Implemented QR scan for add friend feature. Added listview to display friends. Added long press on friend to delete them. <a href="https://github.com/CSCI-3308-CU-Boulder/203\_1\_F20/tree/client\_max">https://github.com/CSCI-3308-CU-Boulder/203\_1\_F20/tree/client\_max</a>
- **Helen:** Created app logo (not committed yet)
- **Jackson:** Created button functionality for long press and single taps for use with activities e.x. Friend's list.

# Challenges:

Background polling is difficult when the app is closed. In case we are unable to do this, the polling will just occur only when the app is running. It will still poll if the app isn't currently open as long as the user hasn't fully closed it.