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CSCI 490
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Requirements And Test Plans

C1: Location services are required for geolocation
C2: Google Play Services required for google maps utilization
C3: Android phone Application
R1: Account creation
- Accounts must have unique email and must be stored for account authentication
- Two types:
  - Creator
    - Email
    - Username
    - Password
    - Static address to be used as location

  - Patron(might make V2 req for the reason that Patrons are essentially identical to Creators but with less privileges)
    - Email
    - Username(optional)
    - Password

  T1:
- Verify accounts created in app are succesfully stored in both firebase auth(email, password) as well as firebase firestore(all credentials) through the firebase console

R2: Post creation
- Only allowed by users defined as Creator
- Posts must be persistent
- Types
  - Video
  - Photo
  - Text
  - Location
    - Location posts(addresses) show up on activity map
- Posts must allow for navigating to posters home page

  T2:
- Verify users can create a post of the following types through the application interface.

- Verify post information of post is present in firebase storage through the firebase console.
- Confirm all posts are viewable from the user's home page after creation as well as the explore page

R3: Functional activity Map
- Snaps to current location
- Location posts must show up on map
- Clicking on pins on map navigates to that users account
- Clicking on pins provides directions(V2 REQ.)

  T3:
  - Create a location post set to current location
  - Check activity map in application has a pin present on the current location

R4: Home page
- Creator home page
  - Must organize posts made by the time(newest at the top)
- Patron home page(V2 Req)
  - Must include posts made by creators that are followed organized by time of post
  T4:
  - Verify most recently created posts by user are presented at the top of the user home page(posts should be timestamped)

R5: Explore page
- Must include all posts made by all creators (except current user)
- Posts on explore are organized by proximity between user's current location and the creators static address, posts are then organized by time of post
  Or
- Proximity between user's current location and location post address
  T5:
  - Create origin user
  - Create a number of neighboring users with varied location addresses(for proximity testing)
  - Create a post with each neighboring user accounts
  - Verify that origin user sees posts in order of proximity(closest to furthest), post by closest neighbor user should be at the top of the timeline and the post by the furthest neighbor should be at the bottom of the timeline

R6(V2 Req): Follow System
- Users must only be allowed to follow users defined as Creator
- All posts are by the followee must be present in the followers home page
  - Posts are organized by time of post

R7(V2 Req): Messaging
- Users can message creators
- Messages must be stored in a repository accessed by the home page