Business Requirements

The client would like to create an app for the user to find a dog groomer with the most availability so the dog doesn't have to wait a long time to wait before and after washing. The app is also a social platform to share photos of their dogs with the community of friends. Then the trained TensorFlow MobileNet object detection model will pick up slight differences between clean and dirty dogs and give that information to a calendar with date and time. The MobileNet model will provide a binary data parameter of clean and dirty to a scheduling assistant that accounts for date, time, geographic location and the amount of users it suggests to travel to certain groomers to handle all of the users on the platform. Lastly, the scheduling assistant will show dog owners the best time to go to the groomer.

Business Requirements | Nouns | Verbs

* **Business logic** Users should known when groomers are available
* **Fine-tuned scheduling** by understanding trends in the cleanliness of the users' dog community
* **Users**: bio, profile pic
* **Features** - Posting , Commenting on photos
* **Groomer suggestion** is based on the probability distribution of dirty dogs at any given time during the week
* **Groomers** can see analytics and choose to stay open during the predicted most busy days of the week

Target Audience **-** dog owners, who are social and want to know when they can wash their pet without having too much idle time so that their dog won't get upset during the wait. (age range: 25-50)

* Login Process - Id, Phone Number, location

1. Nouns
   1. Users
      1. users
      2. groomers
   2. Post
      1. photo
      2. ML identified dirt (Y or N)
      3. caption
2. Classes
   1. User
      1. Name (First/Last) string
      2. Phone Number: float
      3. handle: string
      4. Password string
      5. Email String
      6. Profile Picture image
      7. Location: string
      8. securityQuestion(1,2,3) or authentication dictionary
      9. History of likes (tracking the tags) dictionary
      10. User create their own security questions
      11. Registered: boolean
          1. If registered, can check analytics
3. Content
   1. UserID string super()
   2. Time stamp
   3. Comments

Extend the verbs into full use cases with fully descriptive sentences that will represent the app's features. Each use case must list it's user and its action.

Tasks (use cases)

1. User
   1. A person who's created an account
2. Groomer
   1. A person who has a business account
3. createAccount
   1. Everyone needs to make an account to interact with the social network
4. viewPost
   1. user views a post
   2. name
   3. handle
   4. Location
   5. Like
   6. comment

1. Comment
   1. Register users and groomers can open the comment box and write a string.
2. uploadContent
   1. Groomers and users are able to record and upload pictures to their account. Users are permitted to connect with their pets and groomers are allowed to post content about their work.
3. checkIfClean
   1. When users upload photos, tensorflow.js trained with roboflow will check if the dog is clean or dirty and save the data as a boolean to the sequential database each user has stored in the database of their account.
4. recommendCleaning
   1. Once the user has posted a picture and roboflow decides that the dog is indeed dirty, the scheduling assistant will suggest the dog go to a groom asap. Each user will show a trend in dirty photos posted over time and the model underlying the dirty clean cycle for each user will get tuned to their account as well as sync with local groomer schedules.

Build a UML Class diagram, listing the classes, attributes, methods and associations (regular associations, inheritances and aggregations) that you identified

<https://lucid.app/lucidchart/38bf9f6d-d226-4e62-9a5c-602365eec425/edit?invitationId=inv_1c9a89a9-e071-471d-aad7-28c64cdf99d9>

Build low fidelity interface mockups for the main interfaces for the app. Use notes to describe interactions, restrictions, etc (e.g. this create user button will enable only when the user completes the whole form, and will take you to the user profile page). These can be early mockups, don't overthink them

<https://www.figma.com/file/r08BFfWe3nKpxJvmgHKfQT/project-1-PDP?node-id=0%3A1>