Woolala Final Report

CSCE 606
Fall 2020

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Summary

FashioNXT, a company started by Tito Chowdhury, needed a mobile application that could provide feedback to companies and users regarding fashion by combining the UI of Instagram, Tinder, and Yelp. The app needed to be user friendly as Instagram, as intuitive as Tinder, with the quantitative feedback provided by the rating systems of Yelp. This would allow users/corporations to post photos of their upcoming products, get customer feedback prior to product launch, as well as getting hype regarding the product.

WooLaLa was able to meet that demand by providing a mobile app that has a scrolling feed, upon which users are able to give a 5-star based rating by swiping left or right on the photos. They could then indicate their desire to purchase the product or not, so that the poster would have knowledge of the product's rating and consumer interest prior to the product release. The stakeholders in this case are the FashioNXT members, the AggieHonorCoders team, Companies that will be posting their products on the platform, and the consumers that would be using the app to find new products that they might like to purchase in the future.

User Stories - Some user stories were combined to make it fit into this report. For the full list of User Stories, visit our Pivotal Tracker Page or refer to our backlog documentation in the github repository

Completed Features
- Feature: Login Screen
  - As a user
  - I want to be able to login to the app
  - So I can access my WooLaLa feed

We needed a login screen for the users to be able to log in. The point was to make the app easy to use for the users, so we just needed a backsplash, a logo, and a button for signing in with Facebook or Google.
We gave this feature 3 points as it was the first thing we needed in the app and we were using a completely new language and environment. The high score was due to the unfamiliarity.
- Feature: Login through Facebook
  - As a user
  - I want to log in through facebook
  - So that I can access the app under my profile

We needed the users to be able to log in through Facebook as stated before to make the login simple.
We gave this feature 3 because of the documentation that we had to go through and signup of Facebook developer accounts in order to make this feature possible to implement.
- Feature: Login through Google
  - As a user
  - I want to log in through google
  - So that I can access the app under my profile

We needed the users to be able to log in through Google as stated before to make the login simple.

We gave this feature 3 because of the documentation that we had to go through and signup of Facebook developer accounts in order to make this feature possible to implement.

- Feature Sign Out
    - As a user
    - I want to sign out of my account
    - So I can give my phone to someone else

We wanted the user to be able to sign out of the app so that they can sign in with a different account if needed.

We gave this feature a 2 because once we implemented the sign in, sign out was relatively easy to figure out.

- Feature: Share a post to Facebook
    - As a user
    - I want to share a post to facebook
    - So that I can share the post that I'm interested in with my friends
- Feature: Feed
    - As a user
    - I want to see a feed
    - So that look at what my friends are up to

The Home screen is the Feed screen. This screen allows the users to scroll through the posts of the people they follow.

The first basic implementation of the screen was given a score of 2, but features were added on top of this screen in other iterations after the basic screen.

- Feature: Rating
    - As a user
    - I want to be able to rate the posting
    - So that I can know what I think about the posting

Tito was clear that he wanted a star based rating system that he could swipe left or right to give the rating. This feature was crucial and took many iterations and feedback to get it correct. Through all the iterations, it required 25 points.

- Feature: Follow/Unfollow User
    - As a user
    - I want to be able to follow a user
    - So that I can see their posts on my feed

Initially meant to be a friend request system, turned into a follow/unfollow system. There is no acknowledgement from the receiver of the follow to allow the follower to follow them, instead, it's a one sided request.

This feature caused many changes in varying screens and databases, so this feature required 15 points.

- Feature: Upload a posting with caption
    - As a user
    - I want to be upload a new posting
    - So that I can share what I'm wearing

It's crucial that users can upload a posting so that they can appear on the feed. This feature included implementing the needed database features of image compression and image storage, as well as the ability to use the camera and file explorer within the app.

The combined points were around 20 for this feature.

- Feature: Share a post to Facebook
    - As a user
    - I want to be able to share the posting to Facebook
    - So that I can share what I'm looking at

Tito wanted the users to be able to share the post to Facebook. We implemented this by allowing users to share the post to their Facebook Story.

We gave this feature 2 points.

- Feature: Indicate that I would like to Buy the Product
    - As a user
    - I want to be able to indicate that I would buy the product that's posted
    - So that I can show my interest to the poster

This feature allows users to click a button to indicate that they are interested in buying the product once it's released. It's implemented as a button to the right of the star rating below the post.

We gave this feature 2 points as it required database changes and was a feature that was requested towards the end of the project.

- Feature: Report Post
    - As a user
    - I want to be able to report a post
    - So that I can flag an inappropriate post

This feature was implemented because we were required to implement it due to Apple's App Store guidelines. It simply flags posts.

1 point.

- Feature: Delete Post
    - As a user
    - I want to be able to delete a post
    - So that I can remove a posting

Allows users to delete their own posts in their profile page.

2 points due to database API work.

- Feature: Show Posts in Profile page
    - As a user
    - I want to be able to see my posts in my profile page
    - So that I can keep track of my posts and their ratings

Creates a feed below the user's profile of their own posts. This specific implementation was not requested, but done to make it feel similar to Instagram.

3 points due to complexities in layout.

- Feature: Show number of people that rated the post
    - As a user
    - I want to be able to see how many people rated my post

- So that I can have a good judgement of how many people are interested in the post

Last minute feature request to show how many people rated your post.

1 point since it was simple.

- Feature: Delete a Profile
    - As a user
    - I want to be able to delete my profile
    - So that I can delete my user information

Not requested, but required for us to be able to do maintenance on the database. We needed a way to delete users cleanly as we were testing. We needed all their posts to be gone and all the

2 points.

- Feature: Search for User Profiles
    - As a user
    - I want to be able to search and view profiles
    - So that I can find others in the app

We needed a way to lookup users so that people can follow them and view other people's profiles.

This was fairly complicated since it was required in the beginning and the first thing we needed the database connection for. 3 points for the first implementation, but many edits in following iterations were needed.

- Feature: Follower Page
    - As a user
    - I want to be able to see a list of my followers
    - So that I can keep track of my followers

We wanted a list of followers to be shown so that we can see who's following the current user.

2 points

- Feature: Following Page
    - As a user
    - I want to be able to see a list of the people I follow
    - So that I can keep track of the people I follow

We wanted a list of people the current user is following so that we can see who the current user is following.

2 points

NOT IMPLEMENTED FEATURES

- Feature: Notifications
    - As a user
    - I want to be notified when people like my posts or follow me
    - So that I have instant feedback

Tito wanted notifications for when users get followed or gets a rating on their post or when people click the I Would Buy button, but we were unable to implement this feature in time.
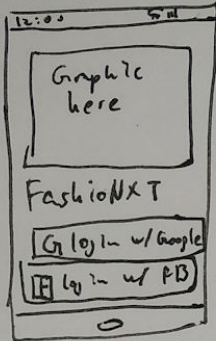
- Feature: Search by Hashtag
    - As a user

- ○ I want to be able to search posts by hashtags
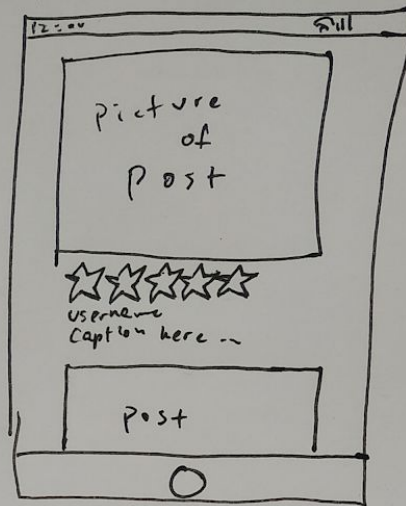- ○ So that I can look up posts easier

Tito wanted to be able to search by hashtags, but we needed some database changes to include hashtags as a different field as well as a change in post uploading to include different hashtags, or include a text parser in the Caption field to parse out all the hashtags in the text. We didn't get around to this feature due to time constraints.
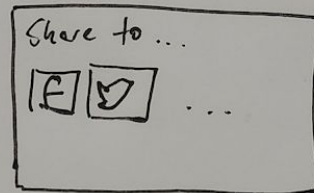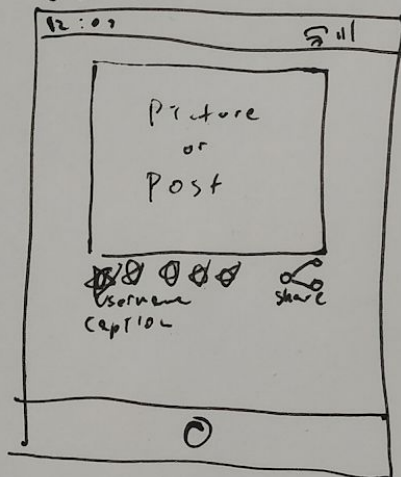
Earlier User Story Lofi Diagrams

1. Facebook login
   Google login

   12:00
   Graphic here
   FashioNXT
   G login w/ Google
   F login w/ FB

2. Feed

   12:00
   Picture of Post
   ☆☆☆☆☆
   username
   Caption here ...
   Post

3. Share

   12:00
   Picture or Post
   username
   Caption
   share

   →

   Share to ...
   F ♡ ...

4. Camera

   12:00
   Feed Page

   →

   Video Photo Macro ...

1. Login page

W

FashioNXT

(f) (G)

Facebook users login

Google users login

2a. Facebook Login

Facebook

account

password

Login

2b. Google Login

Google

Choose an account

○ _____

○ _____

⊘ use another account

Facebook users login succeeded

Google users login succeeded

Facebook users login failed

Google users login failed

3. Homepage

sign out

Users sign out

Homepage

WooLaLa 🔍 ✕

image

★★⯪☆☆

🏠 Home   ⊕ New   👤 Profile

← Next

(Select an image)

📷   🗇

Users post

Retrieve images

Users check profile

User's camera

Users choose images from gallery

☰ Recent

Database

Stores user profiles, images, etc

Retrieve profiles

← Profile

👤
Profile Name
(Bio)

| Post | Followers | Ratings |

Edit Profile

Users update profile

← Edit Profile
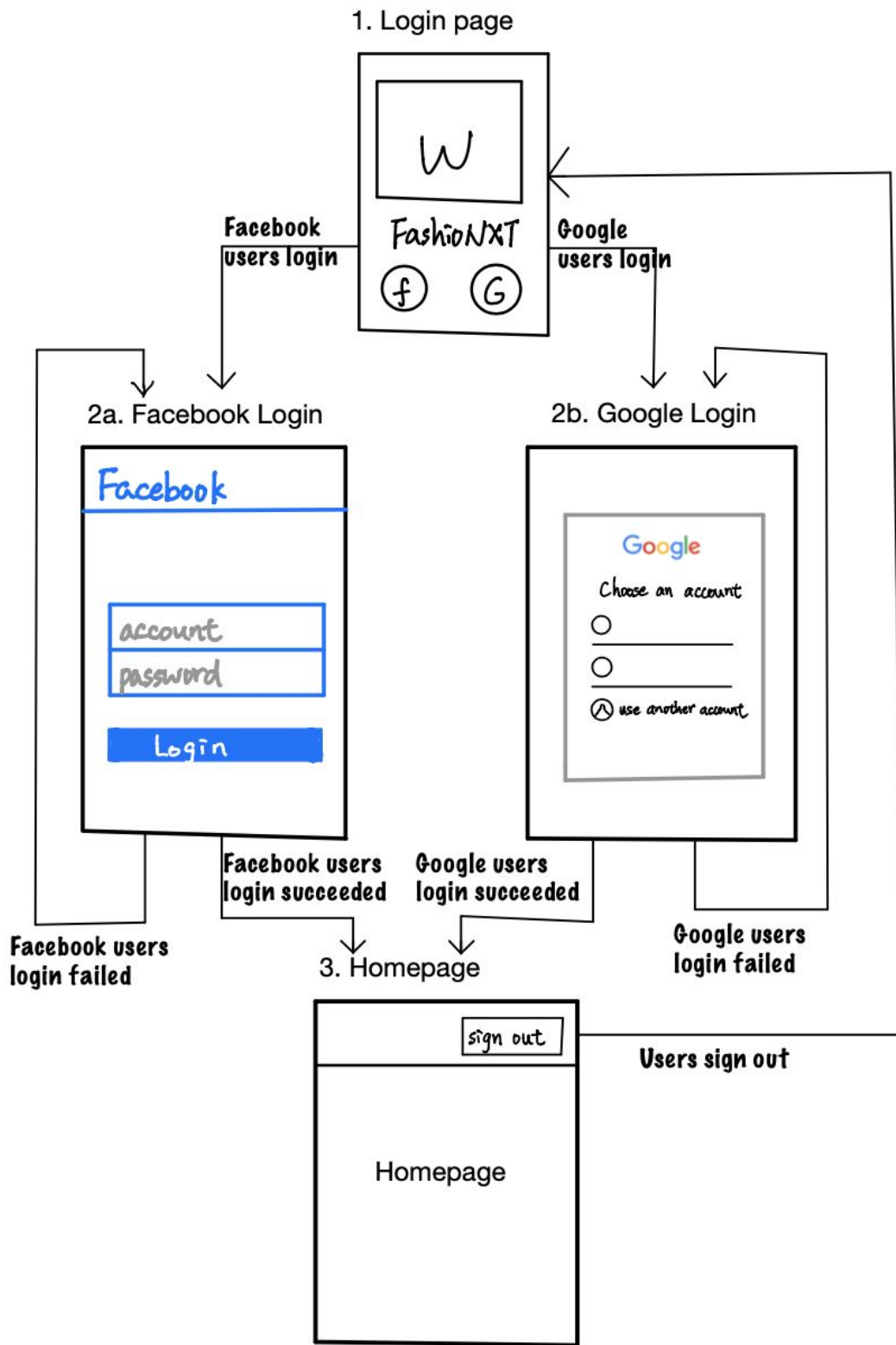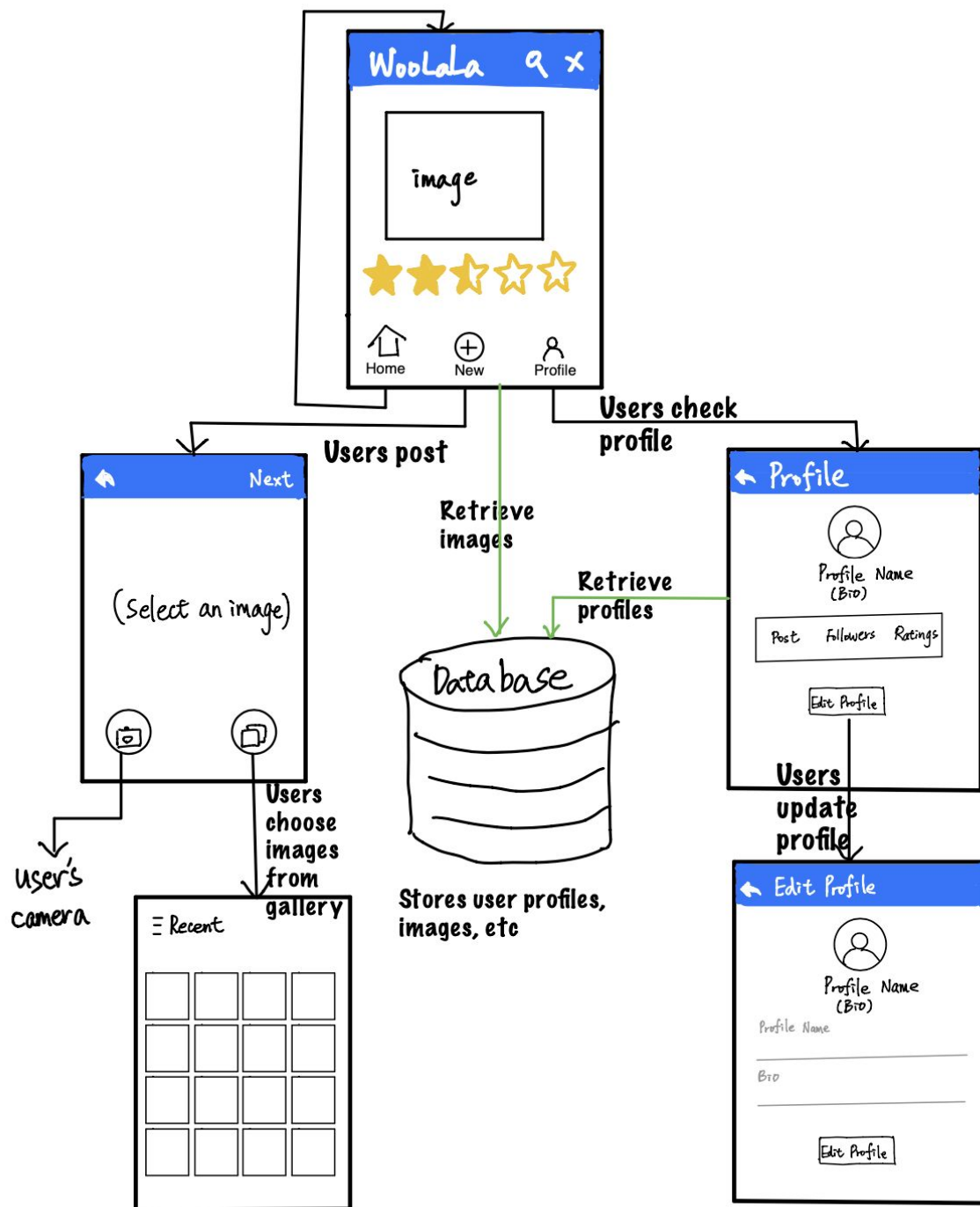
👤
Profile Name
(Bio)

Profile Name
_____

Bio
_____

Edit Profile

Roles
Scrum Master: Deokman Paul Park
Product Owner: Hayden Roper

Iterations
Iteration 1: Basic setup of environments, setup of accounts for Google API, Facebook API, Database setup, etc.
Iteration 2: Setting up the basics of each major screens: feed, profiles, edit profiles, search, rating system, etc.
Iteration 3: Adding major features into each of those screens, little additions that were nice touches to make it feel similar to familiar apps for the users.
Iteration 4: Bug fixing, continuation of UI/UX focused design, some additional last minute feature requests from the client. Clearing up the Database, getting ready for putting the app on the app/play stores.

Meetings
Iteration 0: September 27th, 2020 7 - 8PM
  ● Go over requirements, features, previous project's progress
Iteration 1: October 12th, 2020 8 - 9PM
  ● Demo of Login Screen working, feedback
Iteration 2: October 26th, 2020 8 - 9PM
  ● Demo of Profile Page, Search, Feed, Star Rating, etc and feedback
Iteration 3: November 9th, 2020 8 - 9PM
  ● Demo of secondary screens, and improvements of primary screens and feedback
Iteration 4: November 22nd, 2020 8-9PM
  ● Demo of almost completed app, future goals, and closing off the project

BDD/TDD Process
BDD/TDD for flutter was difficult. The environment did not often allow for tests of behaviors since certain things could not be tested for within the flutter environment. We spent a lot of time in the second iteration trying to get BDD/TDD working with login and gave up since key presses on the screen of emulators could not be automated.

Configuration Management Approach
Our Github Repository had 22 active branches by the end. Some branches were deleted after they were merged to try and make the tree cleaner. There were a total of 324 commits to the WooLaLa2020 github repository.

Heroku Issues
Heroku proved to be slow for our usage. We're utilizing Heroku to host our node.js which is used for our database API connection to MongoDB. The free version of the Heroku server causes the app to be too slow for real world usage. Tito will be exploring the option of paying for the hosting in order to get the speed to a usable level.

MongoDB Issues
We chose to use MongoDB because of the customer's request as well as Ashfaq's(previously involved with the project) recommendation. We are using the free level of hosting for the

MongoDB on their Cloud services, but we experienced severe slowdowns at random times. Due to this, Tito is looking into purchasing a dedicated server from them as well.
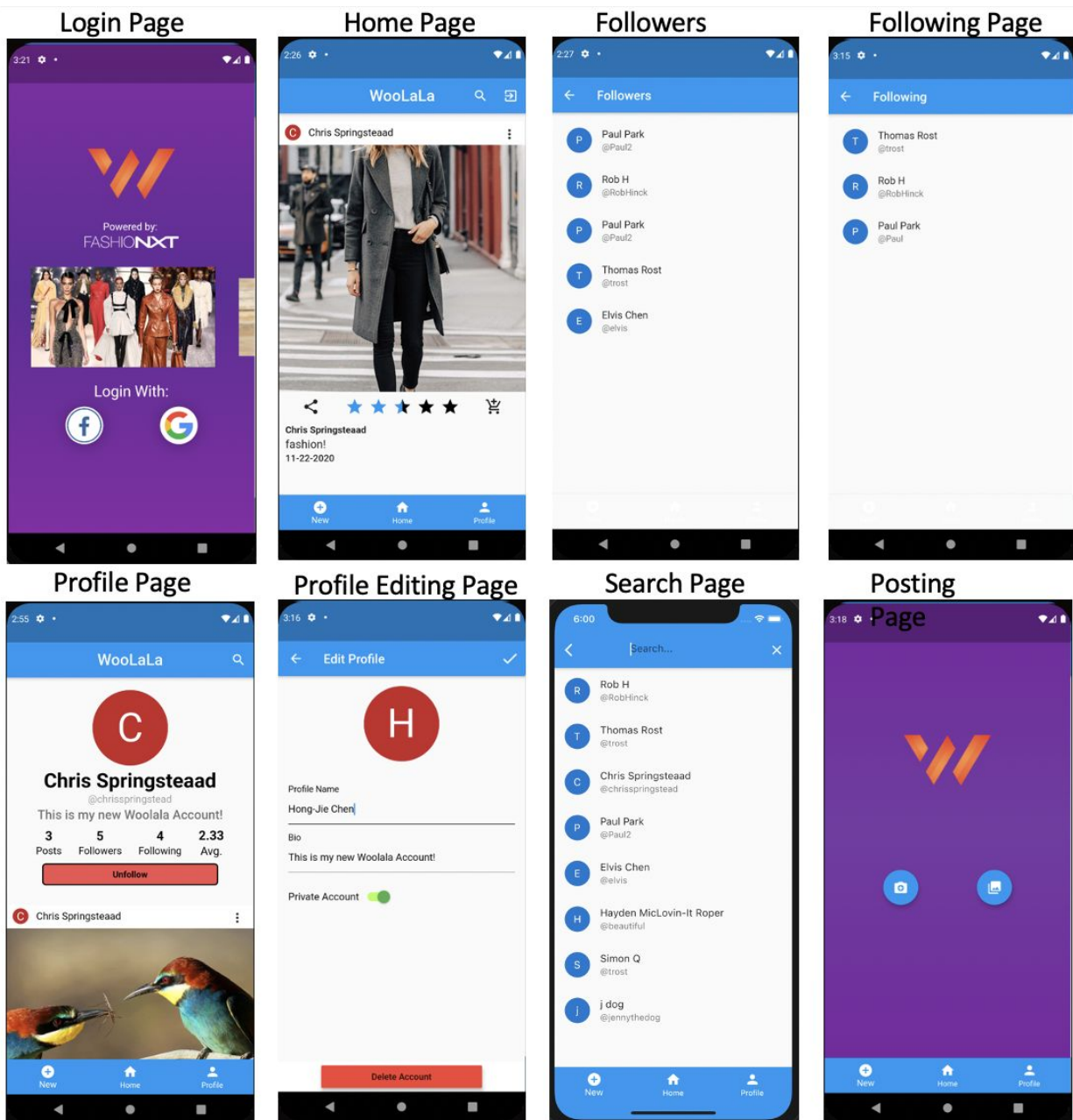
Pivotal Tracker
https://www.pivotaltracker.com/n/projects/2467831

Github Repository
https://github.com/FashioNXT/WooLaLa2020

Screenshots of the WooLaLa mobile application

Android:

Login Page

Home Page

Followers

Following Page

Profile Page

Profile Editing Page

Search Page

Posting Page

iOS: