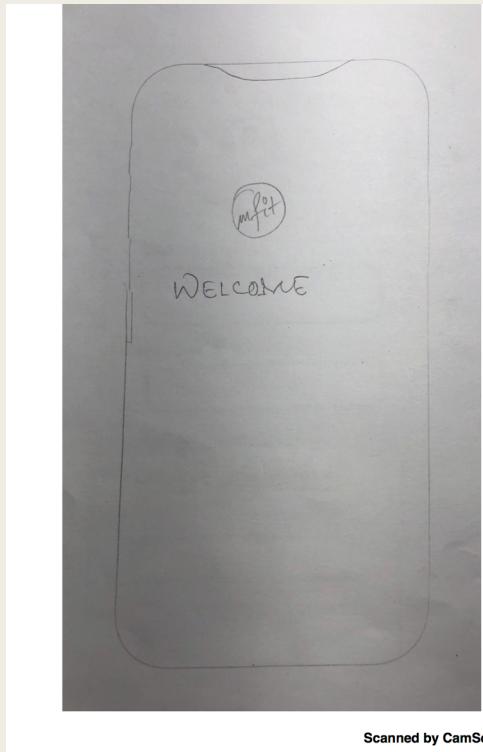


# ***MOBILITY APPLICATION FOR SMART RECIPE SUGGESTIONS AND FITNESS TRACKING***

-Moitrayee Chatterjee

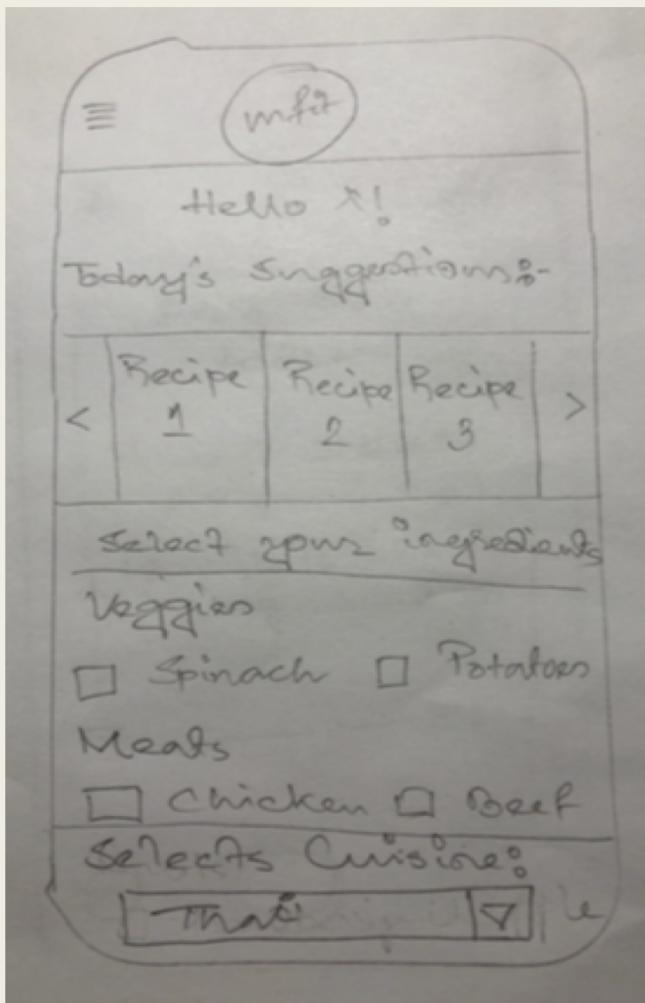
# Paper prototype



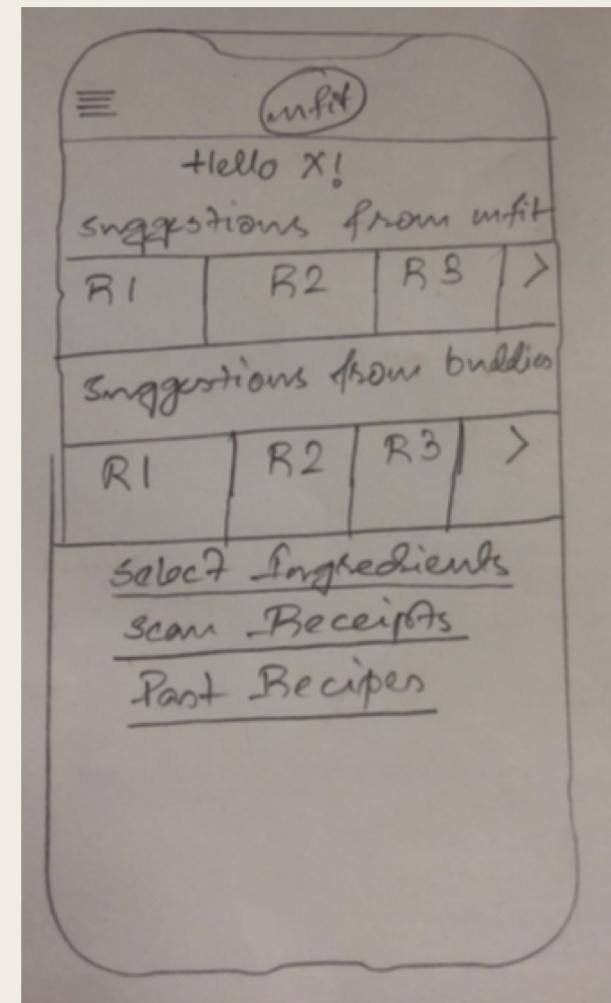
Scanned by CamScanner

# User Feedbacks incorporated: Home pg

Before

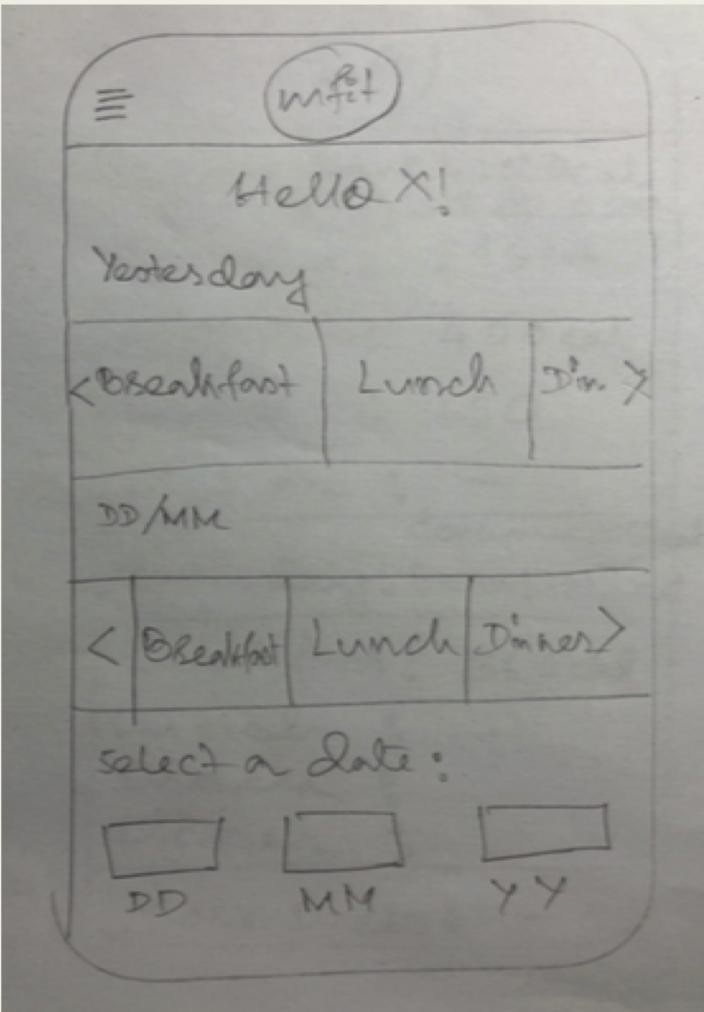


After

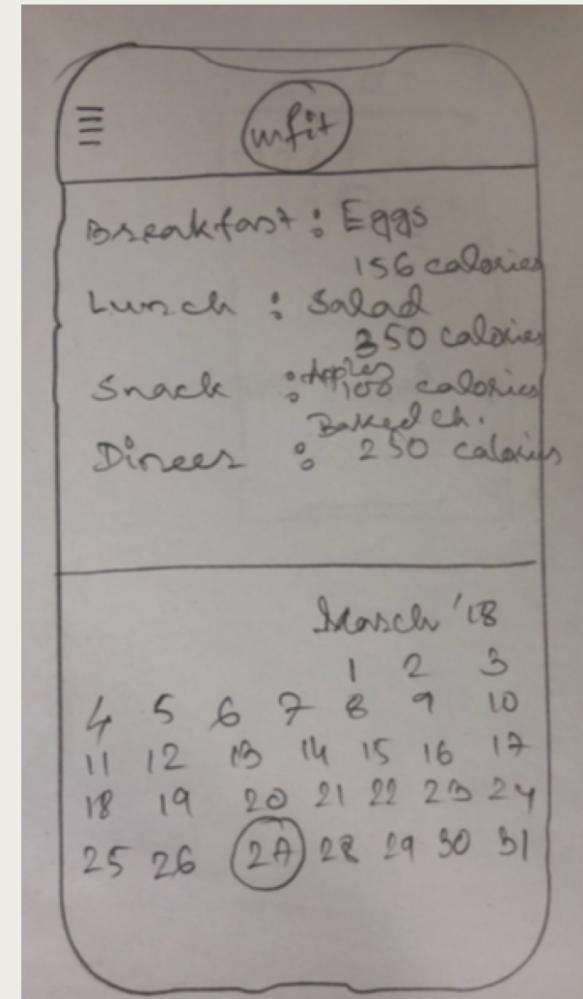


# User Feedbacks incorporated: Past Recipes

Before

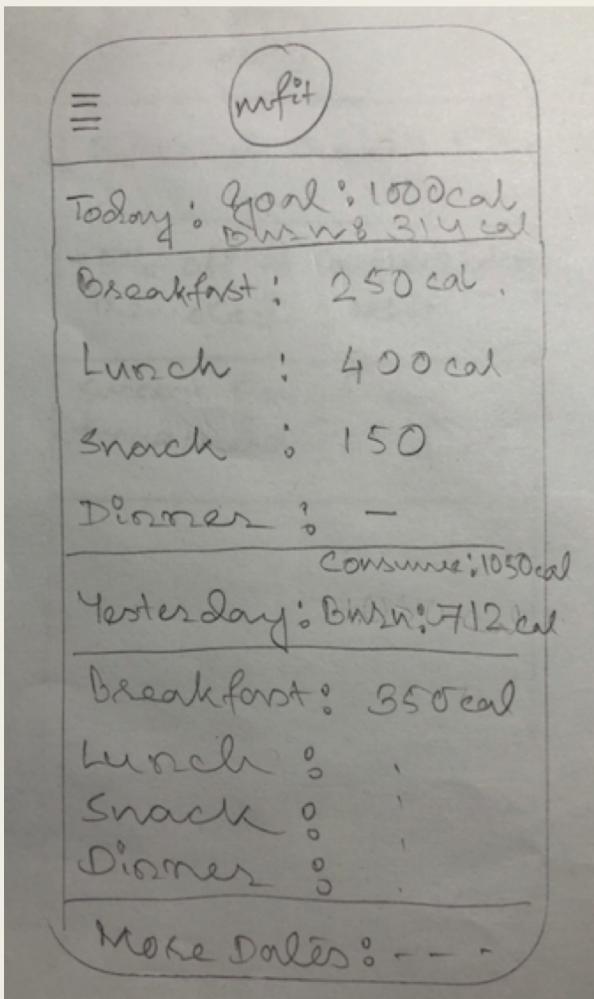


After

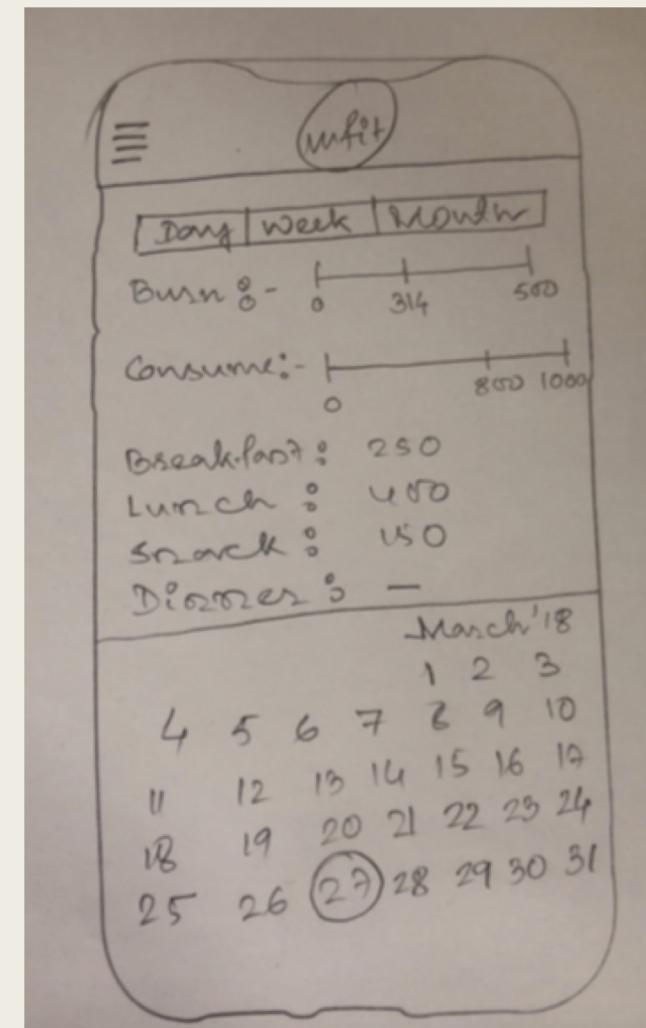


# User Feedbacks incorporated

Before

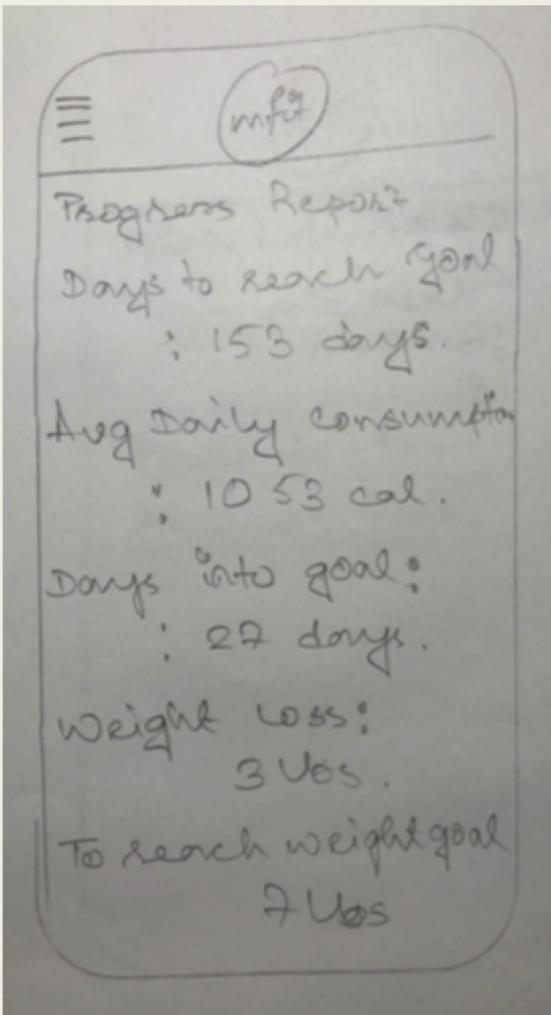


After

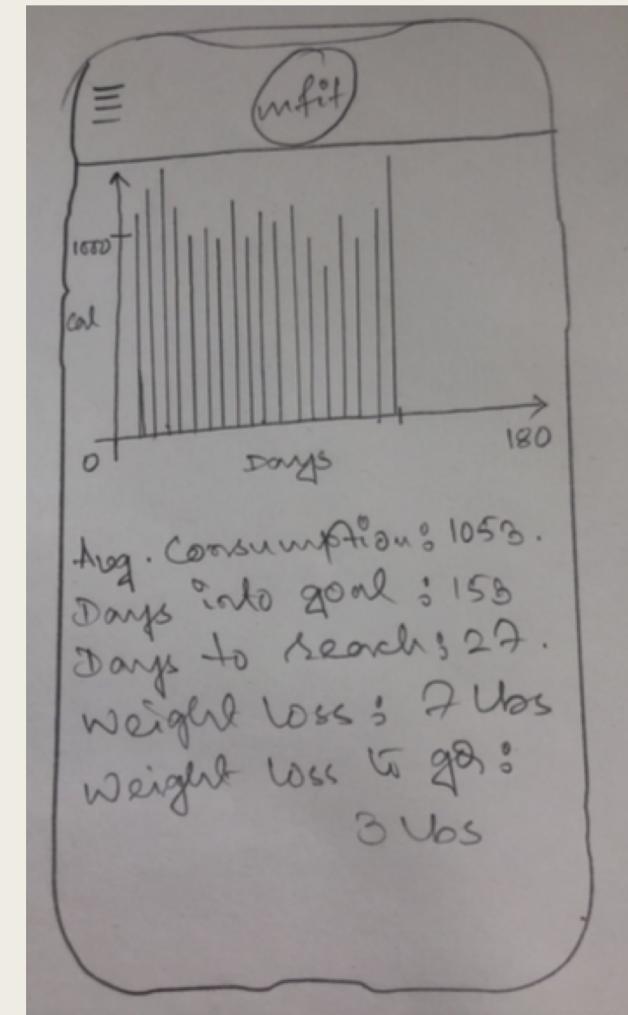


# User Feedbacks incorporated: Progress Report

Before



After



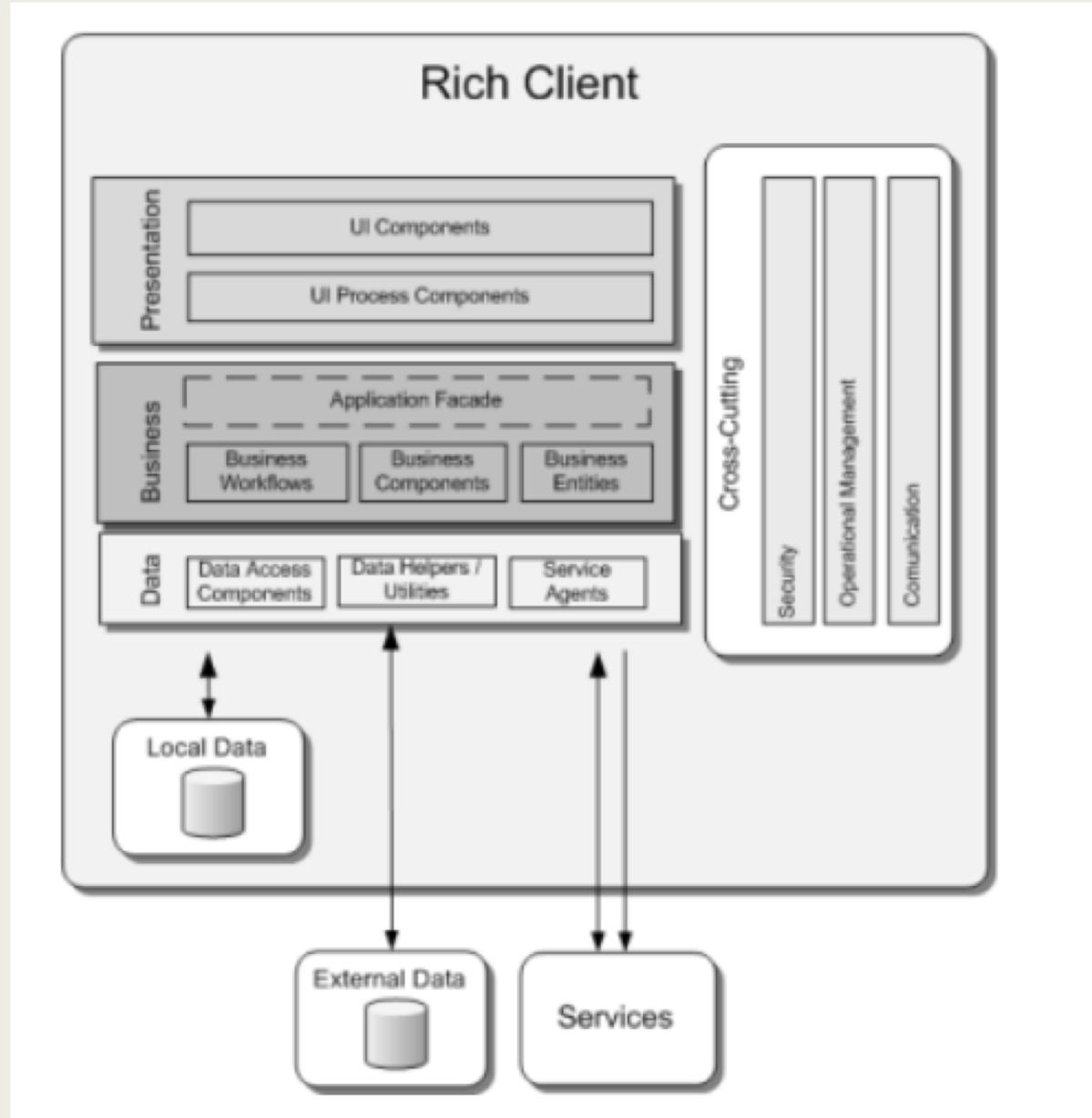
# Software architecture considerations

- Platform Selection: iOS, Android.
- Development Approach: Native.
- Client Type: Rich Client.
- Device Type and Capabilities (Screen, CPU, Battery, Memory etc.)
- Caching
- Synchronization
- Logging
- Authentication

# SA consideration: Native Application Architecture – Platform Specific

- A Native iOS application is developed using Objective-C
- A native Android application is developed using Android Studio in Java
- Pros:
  - Full access to device features
  - Rich user experience
  - Fluid animations and heavy graphics
  - Can quickly take advantage of OS updates
- Cons:
  - Longer development timeline
  - Higher maintenance and upgrade cost
  - Higher resource costs due to various skillsets needed

# Rich Client Archetype<sup>1</sup>



# User Story: Functional

Requirements	User Story
Register	As a user, I need to register in order to access the app. I need to enter username, password, age, weight and height. [These information will be stored in the database and will serve as the profile info.]
Login	As a user, I need to be registered and Login before using the app features.
Select ingredients to Create Receipt	As a user, I need to be able to have the options to (1) select from a list of ingredients, (2) scan my grocery receipts, (3) select from previous recipes to get recipe suggestions.
Scan Receipts to select ingredients automatically and Create Recipe	

# User Story: non-functional

Acceptance Criteria	User Story
<b>Usability Requirements</b>	The user should be able to use the GUI easily and intuitively The user should experience that the application is fast and
<b>Performance Requirements</b>	robust when loading
<b>Reliability Requirements</b>	The application will produce nearly correct estimation of the calorie goals.
<b>Portability Requirements</b>	The software shall work in all different platforms
<b>Inter-operability Requirements</b>	The application will be able to pull activity data from activity tracker.

# User Story: interface, data, security needs

Requirement	User Story
Data Needs	As a mobile app user I want to save all my data to the cloud so I can access it using my login information on another device.
Interface needs	As a mobile app user I want to interact with a friendly UI, that would be intuitive, simple and more graphical than textual.
Security needs	As a mobile app user I want to be able to choose which data to share with my mFit Buddies and which data to share on social media. Also, I need the app to password/touch id /face id enabled to help protect my information.



Thank you ☺