

# Project Deliverable E

Team B34: Accessible Messaging

## Problem Statement

- The client is a legally blind graphic artist who seeks software (for IOS) which can read notifications and messages to him; the client is looking for a smarter application than the ones currently available to him.

# Customer Needs

#	Need	Imp
1	The product is both made and optimized for iOS	5
2	The product has a simple UI, with controls that are easily recognizable for the intended user	5
3	The product is compatible with all commonly used communication applications (apple messages, Facebook messenger, Facebook, WhatsApp)	5
4	The product has an audio-directed tutorial or usage guide to explain its function	5
5	The product functions with both English and Spanish languages	3
6	The product can intelligently discern between system information and actual communication messages	5
7	The product has simple gesture controls or voice controls	5

Metric #	Metric	Unit	Marginal Value	Ideal Value
1	Ease of gesture navigation	Sub	4	4
2	Intuitive button usage to activate/deactivate	Sub	4	4
3	Voice controls display information from recent notification	Sub	4	4
4	Multi-language use (English and Spanish)	Sub	3	4
5	Non disruptive functionality to phone usage	Sub	4	4
6	Reads only notification-related information	Sub	3	4
7	Customer Satisfaction	Sub	4	4
8	Time to load application	Seconds	5	3
9	Ease of installation and setup on phone	Sub	3	4

## Target Specifications

# Benchmarking

Metric #	Need #	Metric	Imp	ReadItToMe	VOINOTTE	Voice Over
1	2, 7	Ease of gesture navigation	4	1	1	3
2	2	Intuitive button usage to activate/deactivate	4	1	1	3
3	3, 7	Voice controls display information from recent notification	4	4	4	4
4	5	Multi-language use (English and Spanish)	3	4	3	4
5	2, 4	Non-disrupting functionality to phone usage	4	4	4	4
6	3, 6	Reads only notification-related information	4	4	4	4
7	1, 2, 7	Customer Satisfaction*	4	3.9	4	5
8		Time to load application (seconds)	3	2	2	1
9	1, 4	Ease of installation and setup on phone	4	3	3	4

\*Customer satisfaction is based on customer ratings or subjective ratings from 1-5 stars from application reviews on the Play store/Apple store.

# Concepts

- Aesthetics
- OS interactions
- Additional Features
- Security
- Voice Commands
- Database and storage

# Feasibility Study

- **Technological**
  - Application development - limited experience
  - Xamarin – C#
  - Mac availability
- **Economic**
  - Xamarin free, open-source
  - No additional costs
  - Developer fee \$100
- **Legal**
  - No serious barriers
  - Security
- **Operational**
  - Reviewing C#
  - Remote desktop
  - Frequent, clear communication between team members and with the client
- **Scheduling**
  - Microsoft project plan
  - Two weekly meetings

# Initial Project Plan

Notification Reader

SETTINGS

ON

OFF

SETTINGS

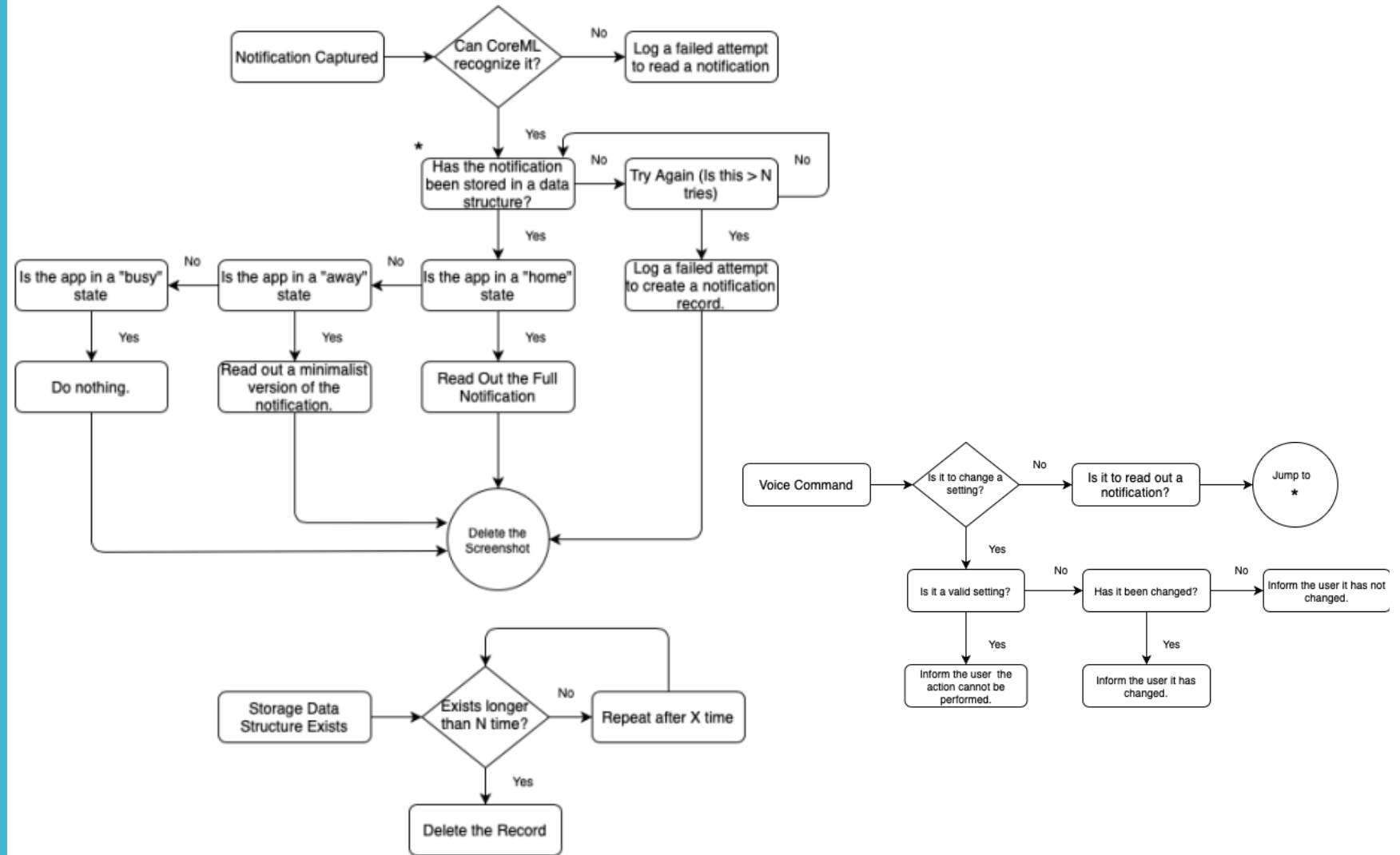
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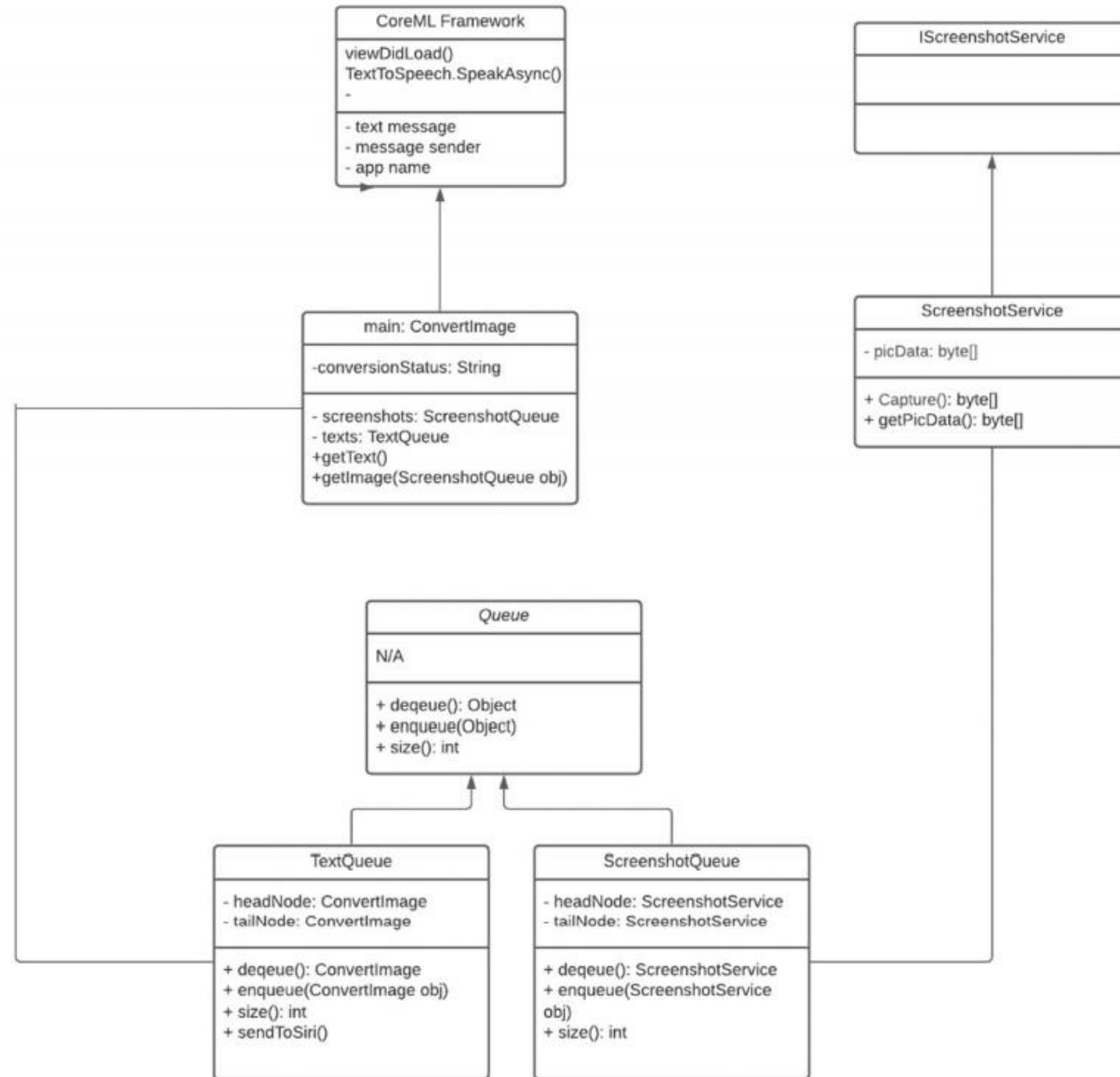
# Design Plan



# Client Feedback

- Method of screenshots/screen recording was approved
  - Important that the method of activation of screenshot function is easily visible
- Similar applications have poor user experience due to
  - Small buttons
  - Over reading information
- VoiceOver update
  - "read all notifications" function
    - Client was not able to make this function work on his device

# Prototype Plan: Testing



# Prototype Plan

Moving Forward