



# Recipe Keeper

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# Outline

1. Problem
2. Design Process
3. Demonstration
4. Q&A

# Problem | Background

- Home-cooking is healthy and economical
- Good home-cooks have good recipe
- There are many apps providing recipes for people, but there is no app allows home-cooks to capture their signature recipes and share it with people

# Problem | Target User

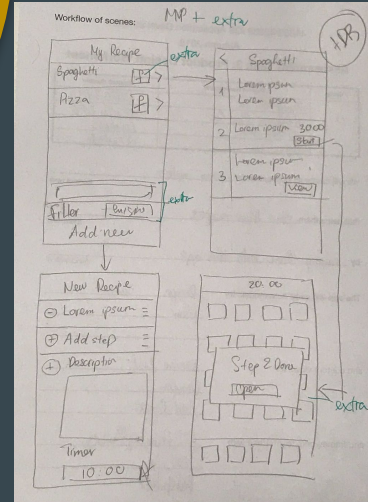
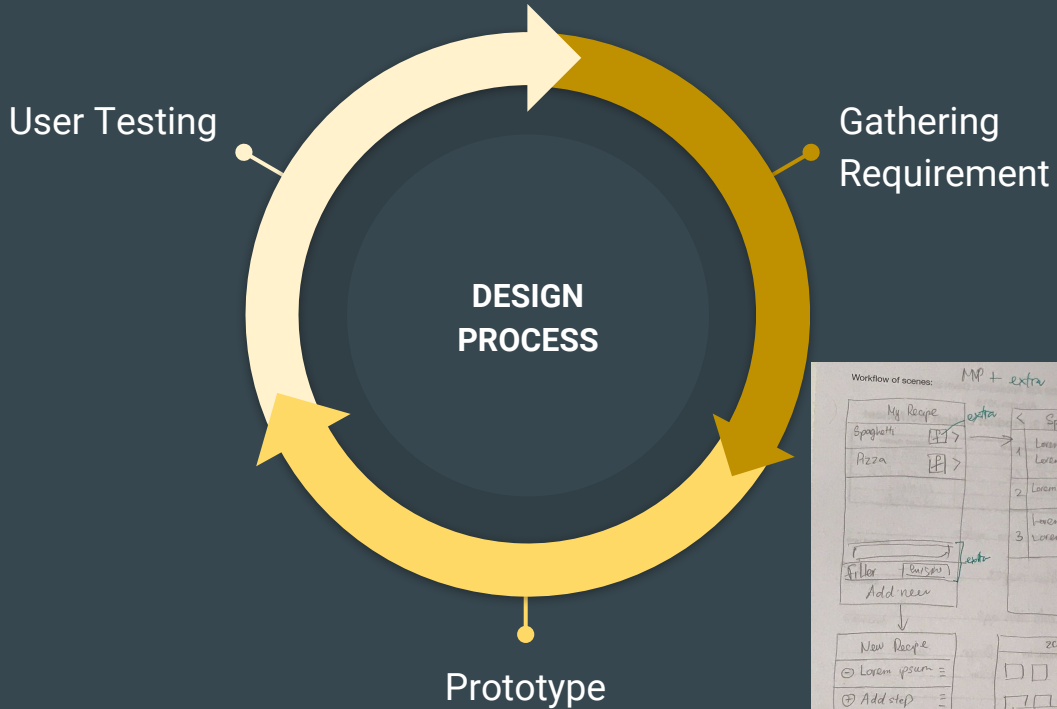
- Homecooks who frequently create new recipes
- Professional chef



# Design Process

## Principles

- Ease of writing recipes
- Integrated actions, such as timer



# Design Process

MVP

Add Recipes  
View Recipes

Phase 1

Search and Filter Recipe  
Integrated action: Timer

Phase 2 +

Integrated action:  
Shopping list

User Account

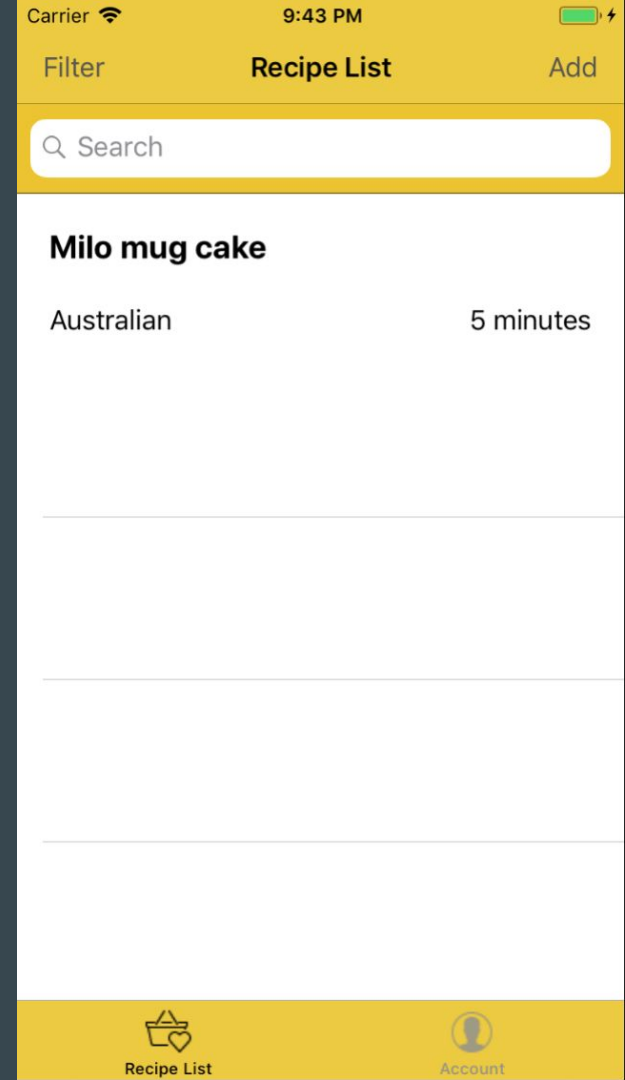
Share Recipes

Recipe Market

Recipe Rating

# Architecture

1. Front End
  - a. UI Kit
2. Back End
  - a. Realm
  - b. User Notification
  - c. Audio ToolBox



# UIKit

## UITableView & UITableViewController

- Easy to manage data
- Conform to UITableViewDelegate
- Save memory

Carrier 9:44 PM

Cancel Add Recipe Save

**Recipe Name**

My Recipe

**Cuisine**

Pick a cuisine

**Estimated Time**

How long does this recipe take?

**Ingredients**

Tap button to add ingredient (+)

**Instruction**

Tap button to add instruction (+)

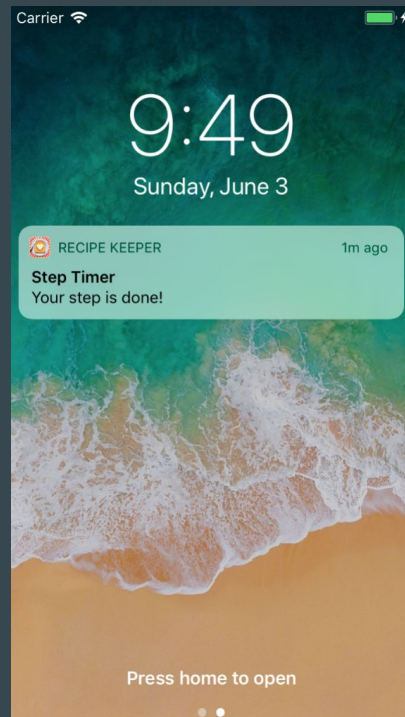
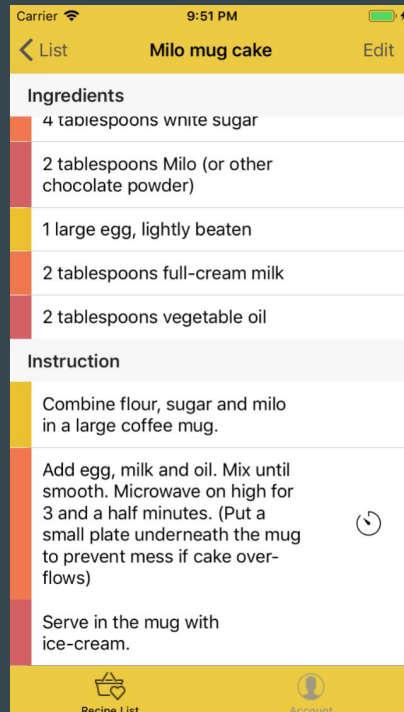
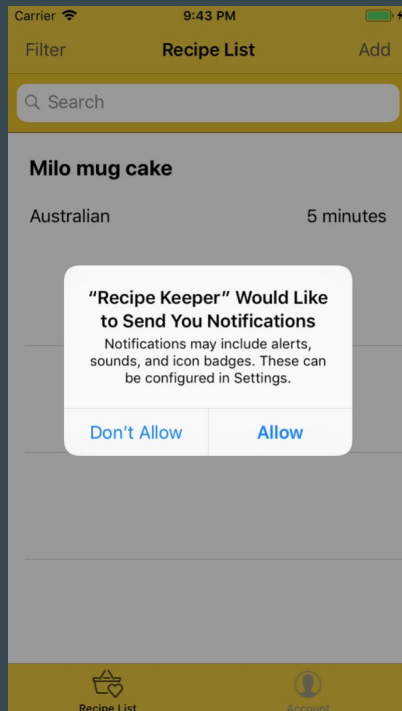
Recipe List Account



# User Notification

## Local Notification

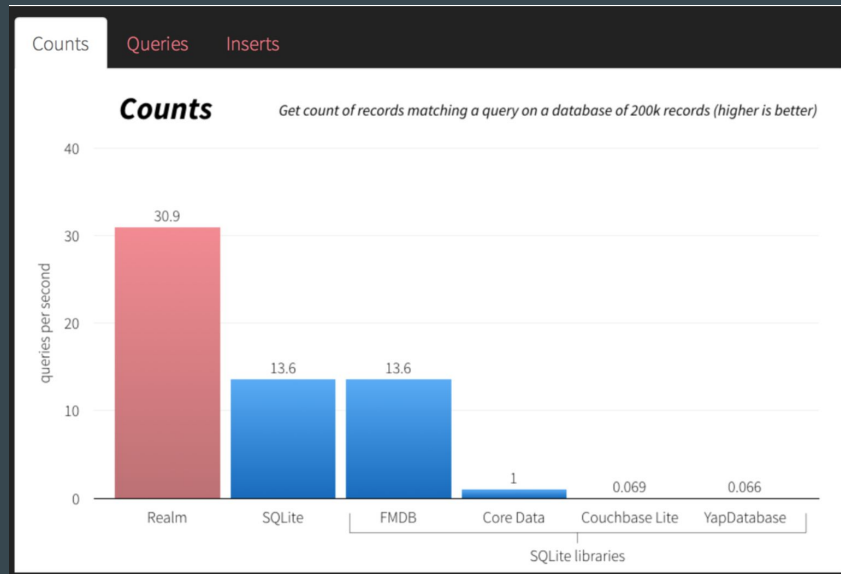
Inform users when new data becomes available for your app, even when your app is not running in the foreground.



# Realm Swift

The figure shows the number of counts that can be performed in 200,000 pieces of data per second. Realm can count 30.9 queries per second. SQLite only has a count of 13.6 queries per second, Core Data could only count 1 query.

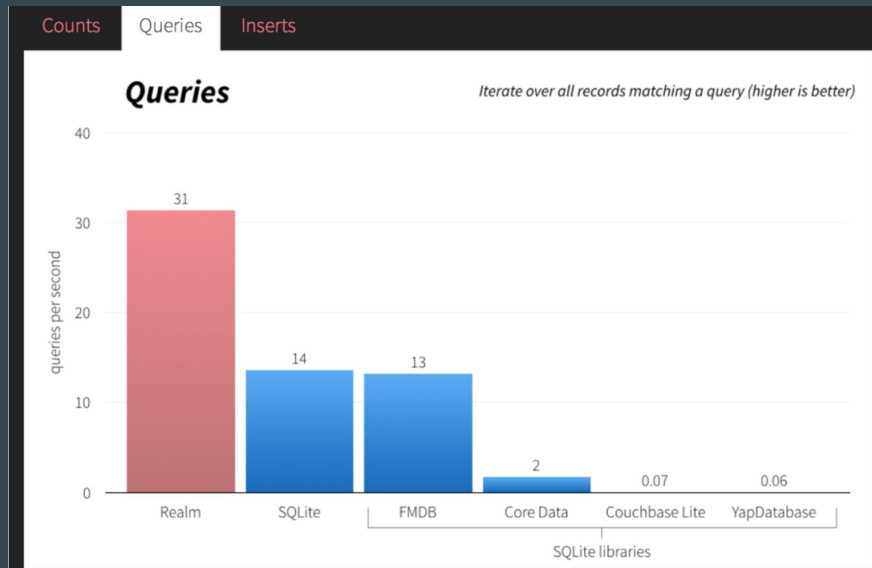
Source: <<https://realm.io/blog/introducing-realm/#fast>>



# Realm Swift

A one-time traversal query is performed on 200,000 records. The data is similar to the previous count: Realm can traverse 200,000 data 31 times per second, and Core Data can only perform two queries. SQLite only do 14 times.

Source: <<https://realm.io/blog/introducing-realm/#fast>>



# Realm Swift

Why Realm?

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Cross-platform

Easy to use

Visualisation

# Audio Toolbox

Apple Built-in framework, record or play audio, convert formats, parse audio streams, and configure audio sessions.

Sound feedback → Better user experience

# Demonstration



List

## Milo mug cake

Edit

## Ingredients

2 tablespoons Milo (or other chocolate powder)

1 large egg, lightly beaten

2 tablespoons full-cream milk

2 tablespoons vegetable oil

## Instruction

Combine flour, sugar and milo in a large coffee mug.

Add egg, milk and oil. Mix until smooth. Microwave on high for 3 and a half minutes. (Put a small plate underneath the mug to prevent mess if cake overflows)



Serve in the mug with ice-cream.



Recipe List



Account



List

## Tomato-Peach Salad

Edit

## Ingredients

1 tomato

1 peach

1 red onion

1 spoon of cider vinegar

1 teaspoon of sugar

1 pinch of salt

1 pinch of pepper

## Instruction

Toss tomato and peach wedges  
with red onion slices. (8mins)Drizzle with cider vinegar and  
olive oil (2mins)Season with sugar, salt and  
pepper (1mins)

Recipe List



New User



# readMe & User Guide

- About
- Authors
- Key Features
- Installation Instruction
- Coding Principles
- Acknowledgement

Carrier

9:45 PM



## User Guide

### How to create a new recipe

1. Tap "Add" to create your new recipe
2. Enter recipe name, select the cuisine and recipe cook time, add ingredients and instructions
3. Click "Save"

### How to edit your recipe

Swipe left on ingredients or instruction that you want to delete to remove them



Recipe List



Account

# Question & Answer