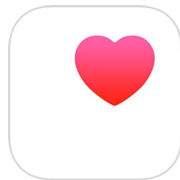


# MENSTRUAL BUDDY

using HealthKit



BY

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# men·stru·al cy·cle

*noun*

the process of ovulation and menstruation in women and other female primates.

Apple announced a central repository for health information, HealthKit, a part of iOS 8. It wasn't until iOS 9 that HealthKit was able to track the Menstrual Cycle. Tracking cycles has a number of uses: when the number of days in each cycle varies, that can be a sign of an underlying health problem.

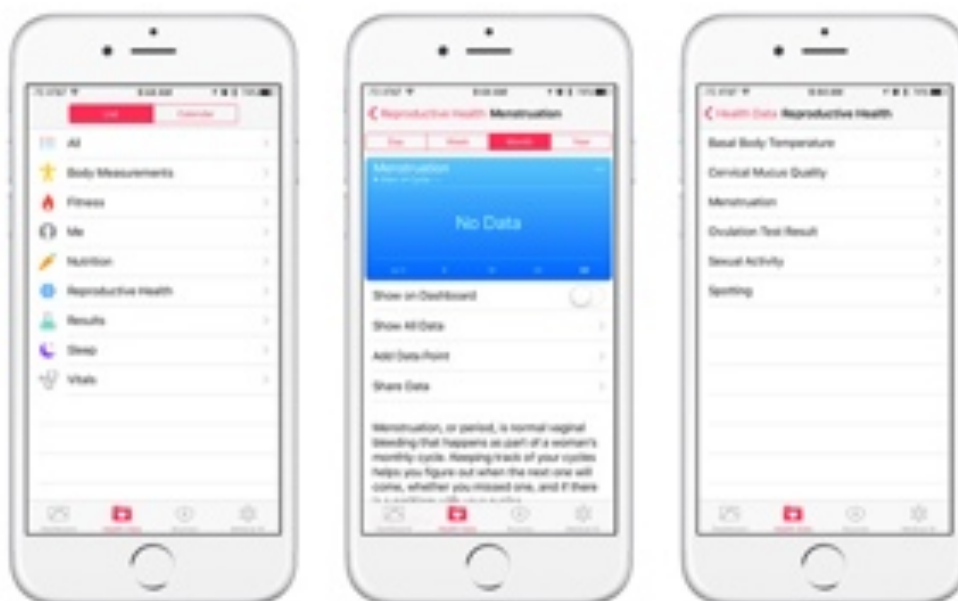
## About the App

There are numerous applications that exist to track these cycles. Menstrual Buddy will provide notifications based like "Hey, menstrual cycle to start in 2 Days" or "Hey, you are ovulating".

The data would help in identifying a number of underlying health issues or increase the chances of conceiving.

Where would we get the data from?

An external hardware device something like an Amazon Dash. This device would be kept near the tampon or pad storage. The area the user is most likely to access at the start of the menstrual cycle. The HealthKit repository would store the date as start of cycle. The device would enable the user to conveniently enter the data.



## Features

Based on the menstrual cycle data captured, the start and end date would help us identify the start of next cycle and ovulation date.

The Alerts sent out from Menstrual Buddy App would include:

- Reminder to buy tampons or pads
- Count down to start of cycle
- Ovulation period

Graphical information about:

- Chart regarding previous start date

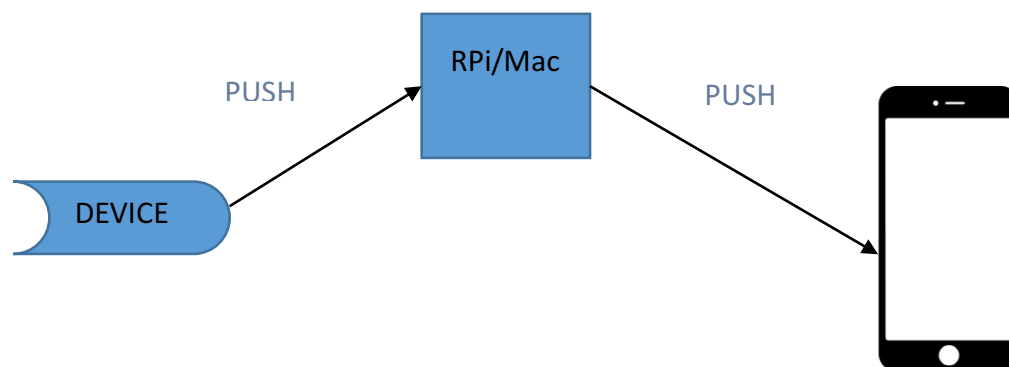
Remote Notifications:

- Based on the button click remote notification will plot the data
- Provide the user with notification that a data has been entered

Local Notifications:

- Alert about due date
- Ovulation date
- Stock up reminders

## High Level Design Diagram



## Source Code Submitted

The source code submitted contains a button click to submit and fetch menstrual flow values to and from HealthKit Store.

## Weekly Time Frame

Week 1	Understanding Healthkit and setting up project	Shristi
Week 2	UI Work Button Push notification APNS	Vinod Avineshwar Shristi
Week 3	UI Work testing with dummy values Button Push notification connect to APNS APNS app lifecycle challenges	Vinod Avineshwar Shristi
Week 4	Integration Integration Integration and local notifications	Vinod Avineshwar Shristi