

# **Requirement Analysis: Core Application**

InboundRX Capstone Team

Version 2.0

Brett Chafin, Jason Custodio, Jason Brophy, Paul Huynh, Luke Kwak, Cher Moua, Thaddeus Sundin

# Table of Contents

1. Introduction .....	2
a. Purpose .....	2
2. Proposed System .....	2
a. Overview .....	2
b. Core Application Summary .....	2
c. State Diagram .....	4
d. Class Diagram .....	5
e. Sequence Diagram .....	6

## **1. Introduction**

### **a. Purpose**

Paulsen's Pharmacy is in need of an iOS app that their customers can use. To do that the core applications has to be detailed out which will be use as a reference to the app's system. The core applications has been narrowed down to the Home, History, Settings, and About view of the app.

## **2. Proposed System**

### **a. Overview**

This section will detail the core functions of the application. These details will primarily be described through the state, class, and sequence diagrams.

### **b. Core Application Summary**

#### **Core Application:**

The core application the following views.

- Home
- History
- Settings
- About

The Home, History and About views will be accessible via a navigation bar at the bottom of the screen. The Settings view will be accessible via an icon in the upper corner of the Home screen.

This application will run on any iPhone that is generation 4s or later, and that has iOS installed on it. The screens should resize according to the device screen they are run on.

The entire application will use Paulsen's logo and color scheme.

#### **The Home View**

Upon opening the application, the app will display the home view. There will be a button in the top right corner which when selected will take the user to the Settings screen

#### **The History View**

When the "History" button is selected in the navigation bar, the application will load the history view. This view will consist of a vertical timeline which displays noteworthy dates about Paulsen's history. Newest dates will be at the top, oldest dates will be at the bottom.

Each historical event displays a name and a date. The user can click on a historical event to expand it. An expanded historical event will display a short paragraph about the event.

**The Settings View**

When the “Settings” button is selected from the Home screen, the app will display the settings view. This will consist of a table view of settings that the user can customize. These settings are:

- A “sign in” button if the user is not signed in, a “sign out” button if the user is signed in.
- Change font size
- Turn notifications off
- Edit account information

**The About View**

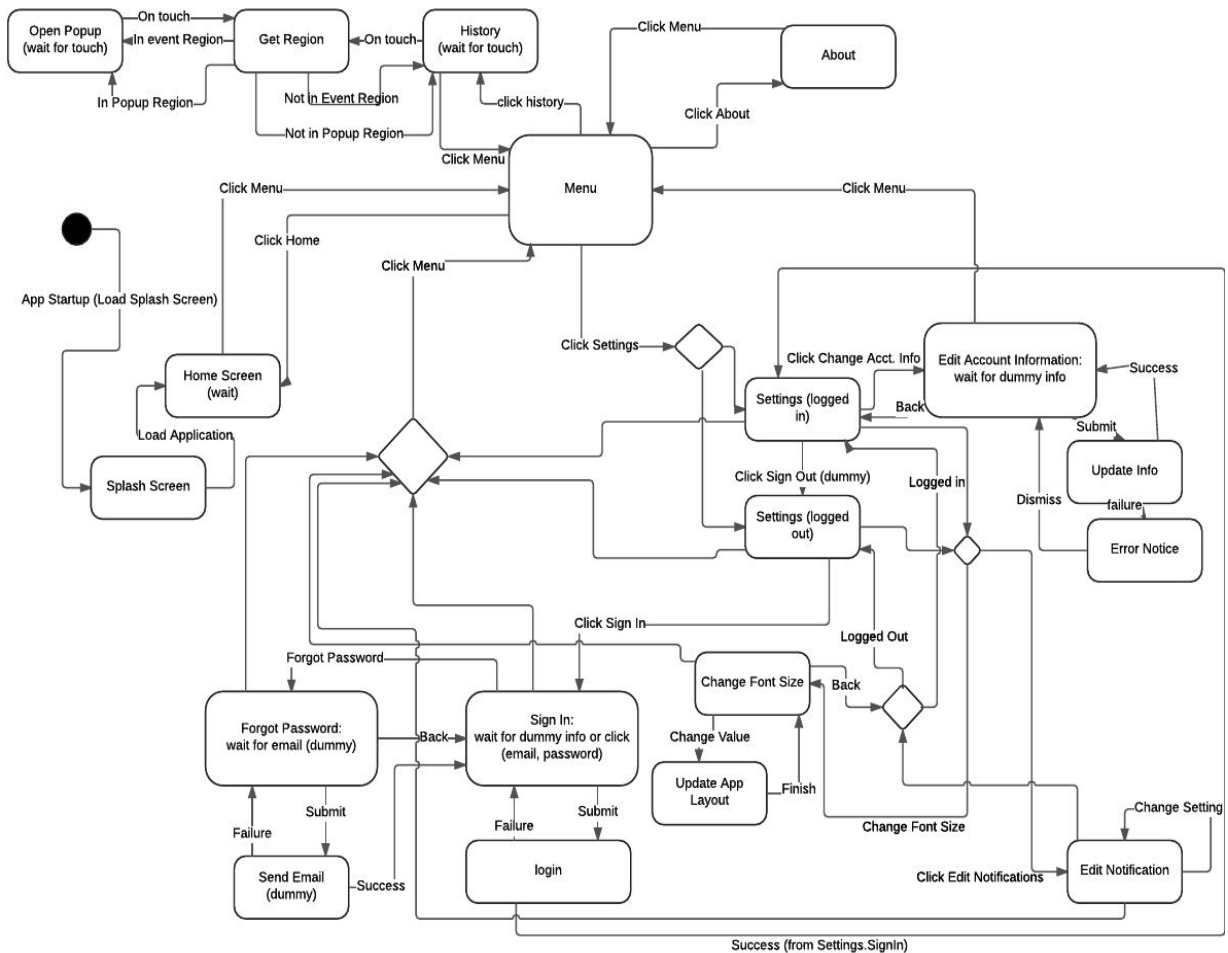
When the “About” button is selected from the navigation bar, the app will display the About view. This will display some information about Paulsen’s, including the address, their phone number, and their hours of operation.

### c. State Diagram

State diagram describes the behavior of an object over a course of time in a system. In this state diagram, each state has their own transformation depending on the event from the user.

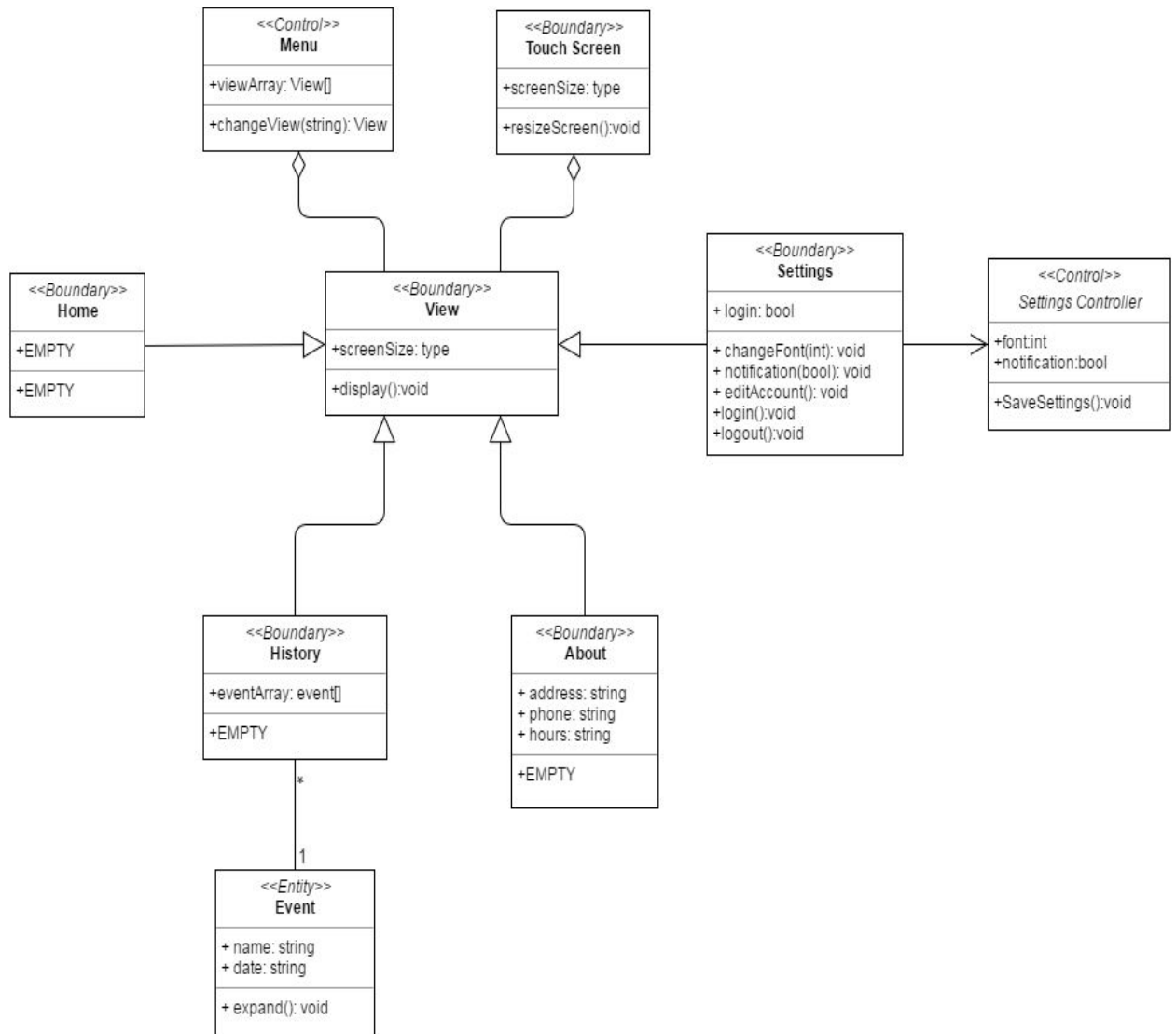
#### CORE APPLICATION STATE DIAGRAM

Capstone Team | November 12, 2016



#### d. Class Diagram

The class diagram is a visual representation of the structure of the system. Here it is the interface of the app where the user can go to different views by using the Menu.



### e. Sequence Diagram

This diagram provides a visual representation of a user opening the app and is exploring the core views. The diagram shows how the system reacts to the user's input as they navigate around the core app.

#### INBOUND RX SEQUENCE CHART

