



The all-in-one self-management application for sufferers of addiction



UNC GREENSBORO
College of Arts
and Sciences

Team: Chauncey Davidson, Charles “Steve” Stamey, Nakava Kibunzi, Joshua Brown, Brian Goughnour
CSC 490-01: Senior Capstone with Dr. Somya D. Mohanty, Spring 2019

Purpose

Addiction problems are severely affecting the greater Piedmont Triad area. According to the NC Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) visits for opioid and drug overdoses increased by 738% over the past 7 years. In 2017 GCES conducted nearly 700 Naloxone overdose reversals.

This indicates a need for easily accessible resources and tools for substance addicts to help encourage them to use safely or, hopefully, help them find a path to quitting. The CURE App is intended to be bring easily accessible help to those suffering from this crisis. People don't seek help if they don't know they have it!

What is CURE?

The CURE application is a tool which users can utilize to help themselves or someone they know with harmful substance addictions.

The application will allow users to plan events and meetings with helpful organizations and care centers, make and organize gradual recovery steps for each week, and get immediate help in case of emergencies. This is a one-stop useful tool to aid people struggling from addiction, and help them stay on track with their goals.

Objectives

Location Services

Users can access services that they need, when they need them with mapping services.

Quick Access to Facilities

In case of emergencies, victims should find instantly get help by calling facilities with no fuss or lookup.

Educational Information

Users get access to resources and tools that help them stay on track and learn more about their community.

Privacy Protection

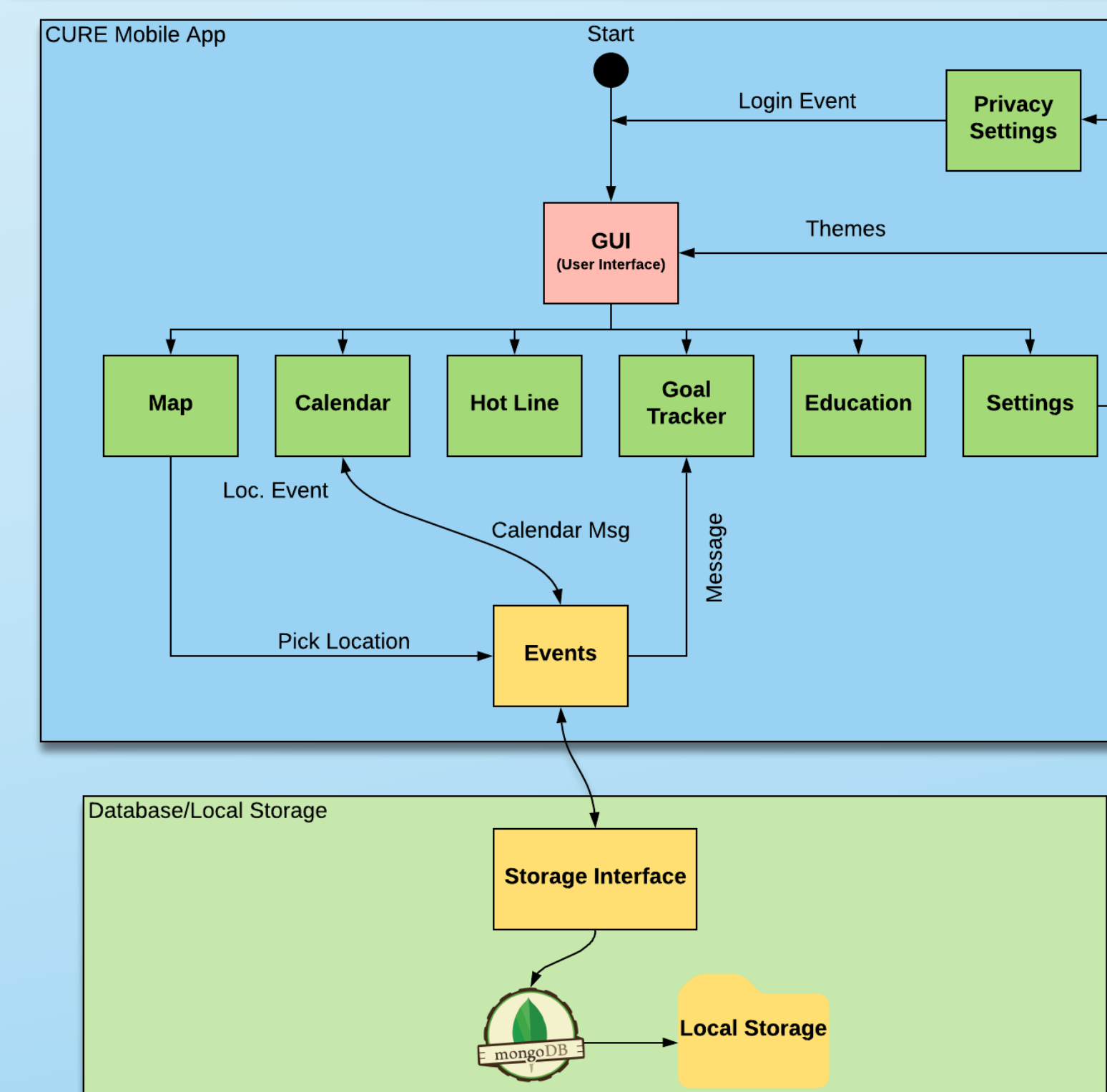
Locally stored information and local, hashed password protection will allow piece of mind for users.

Subsystems



A user can call emergency services, add calendar events, create goals, have access to educational resources, map nearby resources, even change various settings, and themes!

Application Design



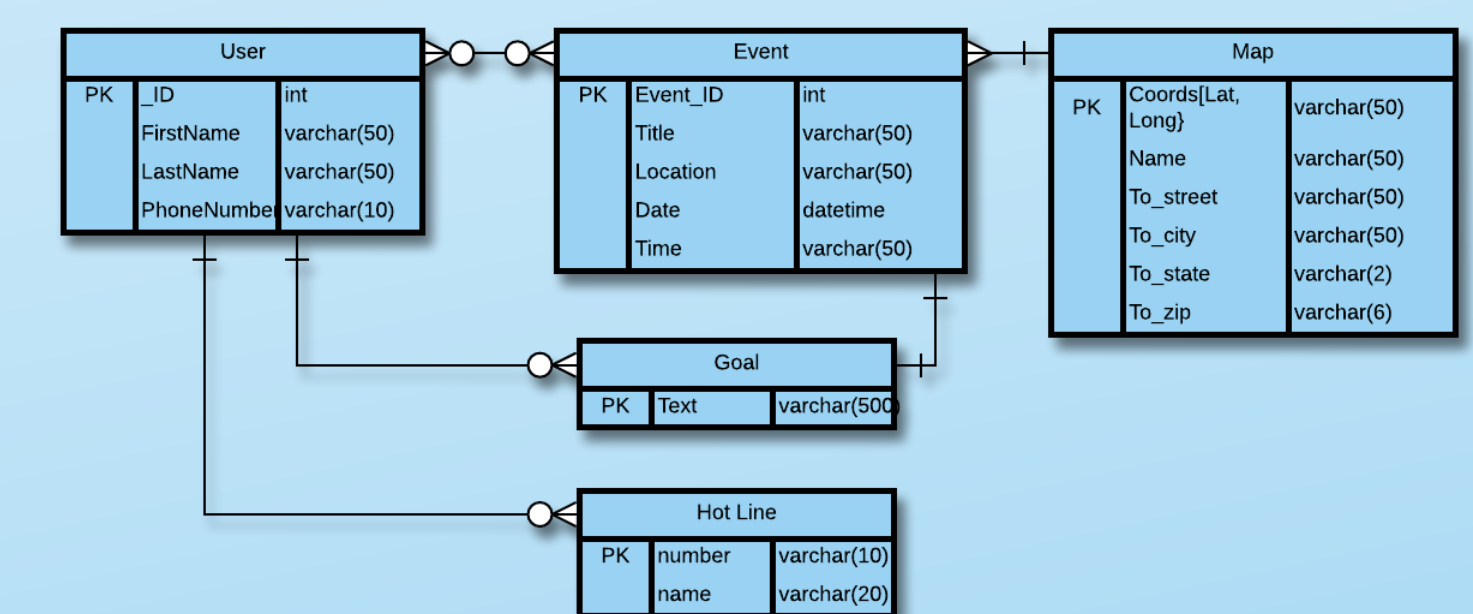
The primary application design of CURE was created using the Meteor Framework in order to allow easy porting to both iOS and Android mobile devices through Cordova. CURE consists of six major subsystems as pictured above.

Tools

Front-End: Built with Blaze templating, and CSS bootstrap libraries.

Back-End: Meteor's framework, Javascript, Leaflet Maps, Node.js, and Mongo DB

ER Model



Future Work

24 HourText Help

Due to the preference of many users to text rather than actually speak to professionals, a chat feature would allow the user to communicate with volunteers and professionals the way they prefer.

Notification Settings

Whenever new events such as substance abuse meetings, and various other functions are taking place a user can get a notification set directly to the CURE application.

Logging

Allow for the a users actions and completed goals to be forwarded to professionals to monitor a users progress in thier recovery.

