

Ketchup Clinic Concept Sketch

Problem

Type 2 Diabetes is one of the most prevalent diseases in the U.S. The American Diabetes Association shows that “in 2015, 30.3 million Americans, or 9.4% of the population, had diabetes” and every year about “1.5 million Americans are diagnosed with diabetes” [1]. This chronic illness involves substantial life changes that can be overwhelming. Newly diagnosed patients struggle with managing the oral medications, understanding the side-effects, and creating a drug schedule that integrates with their current eating, sleeping, or exercising habits. Ketchup Clinic’s goal to build a platform that allows users to learn more about each medication and create an optimized drug schedule that factors in their eating, sleeping, or exercise habits.

[1]: <http://www.diabetes.org/diabetes-basics/statistics/>

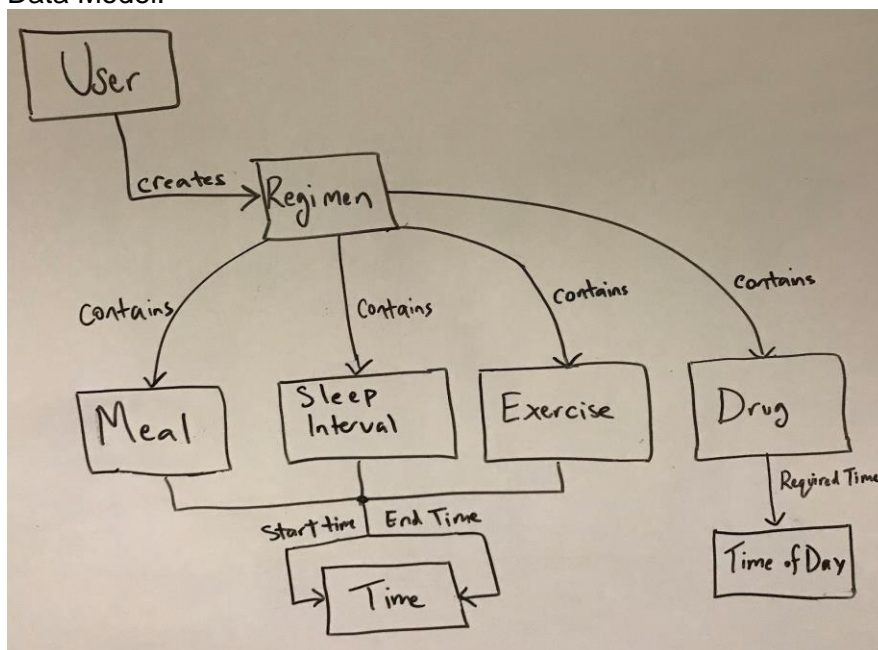
Project Key Concepts

I. Regimen

Purpose:

Allows a user to create a personalized drug schedule based on their sleeping, eating, and exercising constraints.

Data Model:



Actions:

- User: selectDrug()

- Effect: User selects from a list which drugs they were prescribed
- User: addMeal(timeStart, timeEnd, mealSize)
 - Effect: User creates a time period when they will eat and when they usually finish and how heavy the meal tends to be.
- User: addTimeAsleep(timeStart, timeEnd)
 - Require: timeStart != timeEnd
 - Effect: User creates a time period where they will be asleep
- User: createRegimen()
 - Require: drugs, meals, time asleep
 - Effect: User creates a drug schedule that integrates into their life

Scenario:

Joe Appleseed was recently discharged from Conceptual State Hospital with a diagnosis of Type 2 Diabetes. Joe received five pills he must take every day and was told to exercise five times a week to maintain a healthy blood sugar. While Joe received instructions with each pill he is scared and intimidated. Joe learns about Sugarly, a platform made by the Ketchup Clinic that helps people understand Type 2 Diabetes medications and create a manageable schedule. Joe signs up and selects the drugs he was prescribed. The system then asks Joe to add when he likes to eat and sleep. Joe then adds when would be a good time to exercise for 30 minutes. Finally, Joe clicks "Create Regimen" and a schedule for him is created that he now can follow everyday.