

# ReFill: The Hydration Application

## Project 3 Design Document

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## 1 Description

. ReFill is an application that provides lists of accessible water bottle filling stations in a variety of areas. This is useful to provide better knowledge about accessible water for those traveling in new areas, or looking to stay hydrated.

## 2 Example Usages

Below we highlight a few of the example usages of this website. These further allow us to explain the design rationale used to create the site.

### 2.1 Personas

**Persona 1.** Felipe is a senior undergraduate student who is exploring new cities he wants to live in. He is young, moderately health oriented, and enjoys travelling. He is also interested in an urban environment to further his professional career.

**Persona 2.** Renata is a young working software engineer who just moved to San Francisco. She is very health oriented and enjoys physical activities with social components, such as hiking and pickle ball.

### 2.2 User Stories

**Persona 1.** Felipe is visiting Boston for the first time during the summer and underestimated how hot it can get. He is a computer science undergraduate student, looking to see

if he likes the area for graduate school. He generally likes to travel in cities, so he is looking for a resource to find where to fill up his water bottle in this new location.

**Persona 2.** Renata is a recent college graduate and an avid hiker who just moved to the SF area for work. She is thinking of organizing a hike to bond with her coworkers, and wants to know if she can refill her water bottle near the trails she wants to visit.

## 2.3 Initial Prototypes

We began by drafting some hand-drawn prototypes of what the layout and structure was going to be. Figure 1 demonstrates such hand drawn sketch.

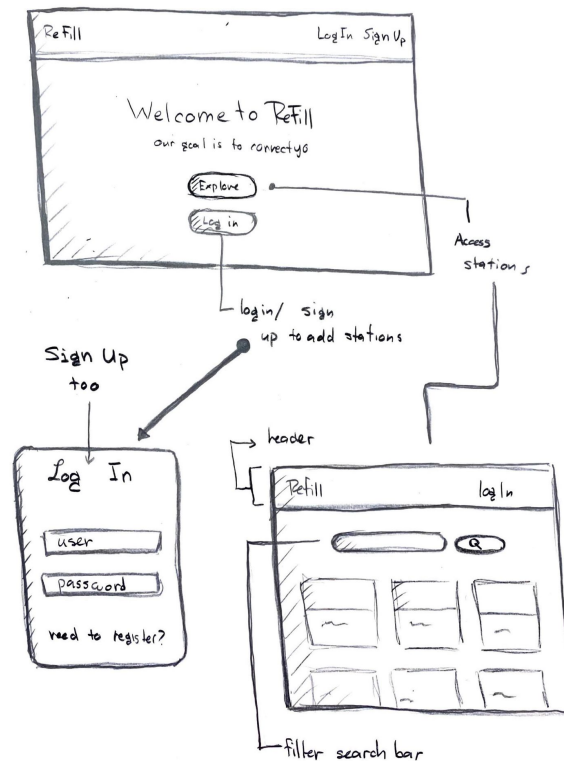


Figure 1: Initial Sketches of the Application

## 2.4 Further Prototypes

Figure 2 shows one of our later templates for the interactions between the websites. It also highlights some of the databases we used and which pages would interact with which.

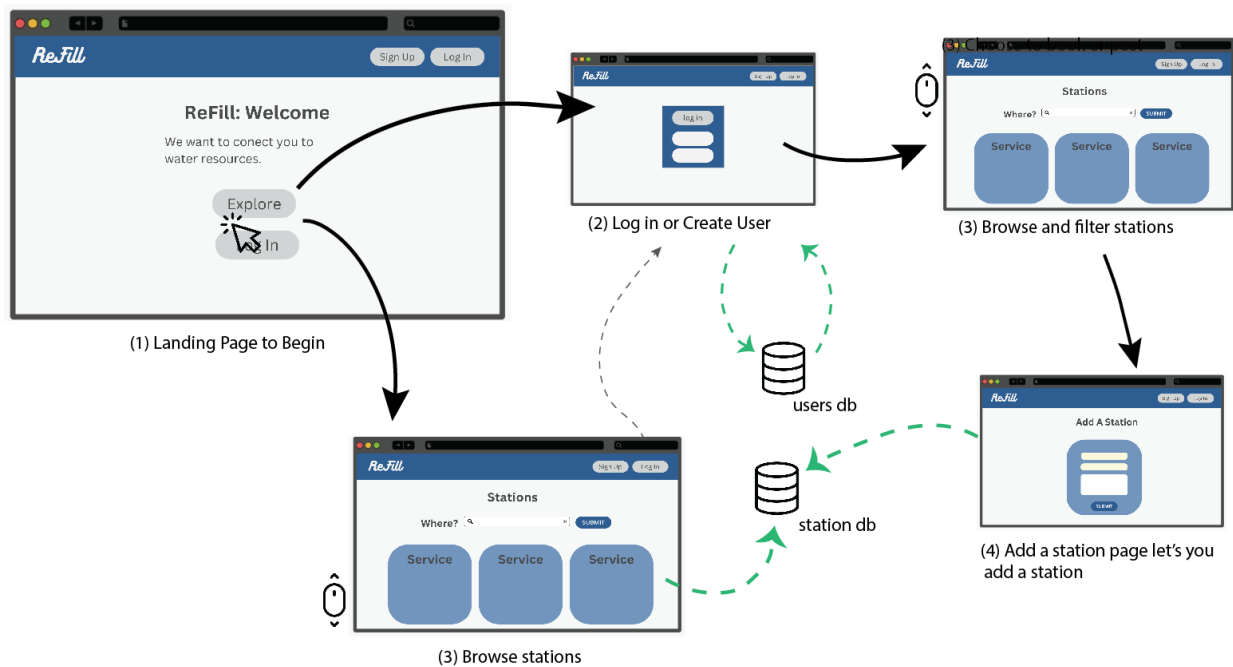


Figure 2: Mock up of pages and MongoDB interaction