Team Bike2Go

Timothy Dalton
Kaileen McCulloch
Daniel Coultish
Louis Kraak
Kolby Chapman

Proposal

Problem

There are many people that do not own a bicycle and cannot afford to buy one. Also, many people would like to use a bicycle for recreation or transportation, but only require it for a short amount of time. Unfortunately, a bicycle rental service does not currently exist in an easy to use format. In addition, by offering people an alternative to driving, we can hopefully get more cars off the road. According to the information gathered from our interviews, many people would be interested in using a bicycle rental service.

Solution

Our system will offer easy access to bicycles for a cheap price. By incorporating both a website and app for renting, our users can have access to our service in whatever format serves their needs. By keeping the system and interface simple we hope to encourage people to try our system.

Technology

The main technology our system will incorporate is an app which will allow users to set up a profile, find locations, reserve bicycles, and set up a payment system. Google maps will be used for the location aspect of our app. To get in and out of the locations users can use key cards.

Conceptual Overview Design

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┌─────────┐   ┌─────────┐
│  Login  │   │ Register│
└────┬────┘   └────┬────┘
     └──────┬──────┘
            ▼
      ┌───────────┐ ──────────────────►  ┌────────┐
      │ Home page │                      │  Help  │
      └─────┬─────┘ ──────┐              └────────┘
     ┌──────┘             │
     ▼                    ▼              ┌──────────────┐
┌──────────┐      ┌──────────────┐       │  View bike   │
│View account│───► │View Reservations│   │  locations   │
│  details  │      └──────────────┘      └──────┬───────┘
└─────┬─────┘                                   │
   ┌──┼──┐                                      ▼
   ▼  ▼  ▼                             ┌──────────────┐
                                       │View bike info at│
                                       │   location    │
                                       └──────┬───────┘
                                              │
                                              ▼
                                       ┌──────────────┐
                                       │ reserve bike │
                                       └──────────────┘
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Edit account details	Setup payment method	Add funds