

# HandleBars

by Team Handlebars - Pd 9

Roster: Jeff Lin (PM), Kenneth Chin, Calvin Chu, Henry Liu

## Website Purpose:

Return close bike rental spots, a map, and the weather of a searched location using the CityBikes, MapQuest Open Geocoding, and MetaWeather APIs. We plan to use Bootstrap to build our website.

## Tasks:

- Processing search terms to plug into API URLs
- Handling invalid search terms
- Displaying weather information about a location
- Displaying bike rental spots
- Displaying map

## APIs:

[City Bike](#) ([Documentation](#))

[MapQuest Open Geocoding](#)

- Jeff's API Key: GiP6vYcbAdnVUtnHGJwYdvAdAxupOahM

[MetaWeather](#)

## #1: Site Map

## Features:

### Search Handling

- Location information is taken in by MapQuest and map is returned of location
- Take coordinates from MapQuest API and plug into MetaWeather API
- MetaWeather API returns "woeid" to search for location weather based on city
- Use city of searched location and match to cities of CityBikes to return close bike spots

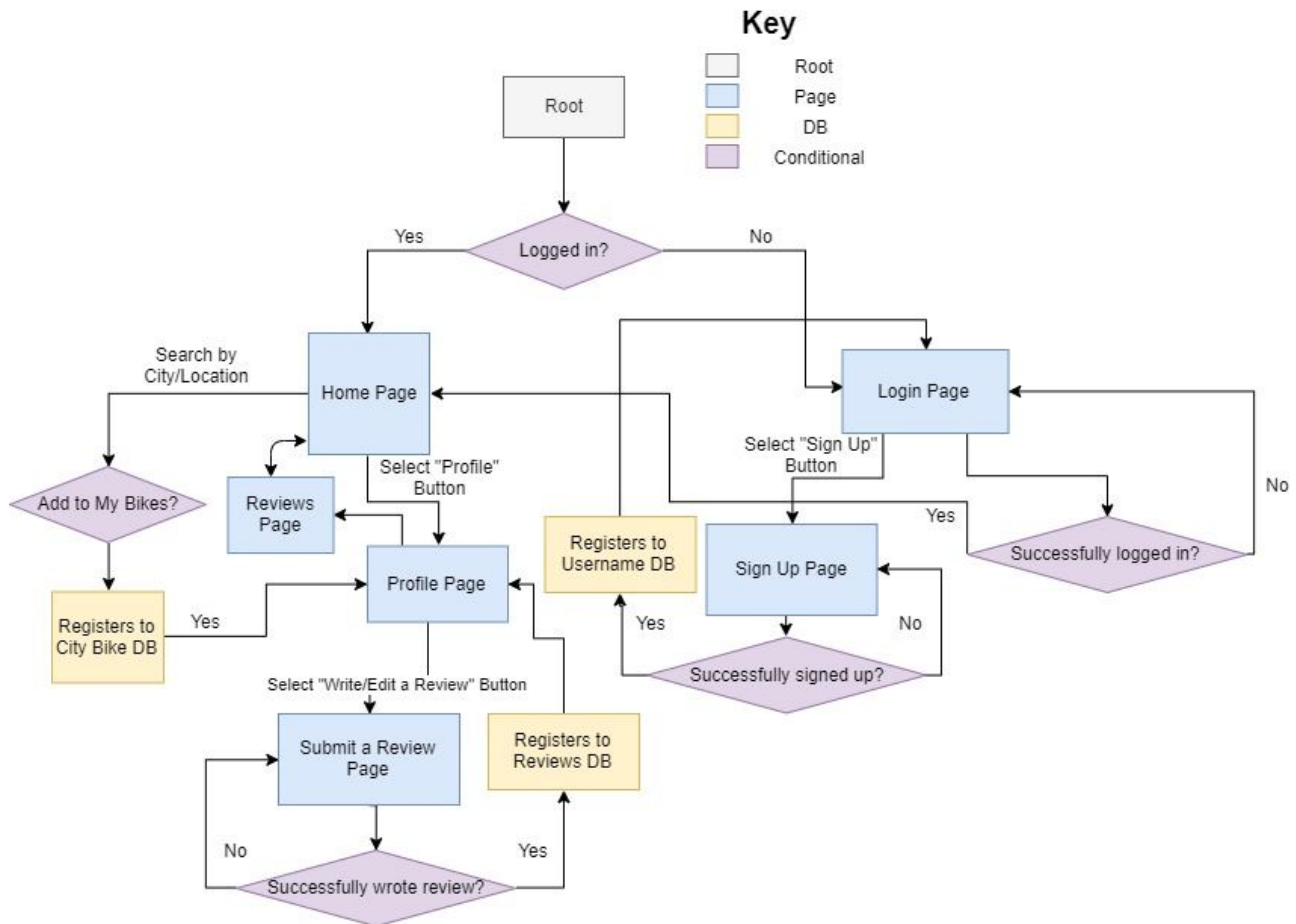
### (Direct user interactions on the site)

- ❖ Login/Registration: Each user will need to make an account/log in to post reviews or comments and save bike spots.
- ❖ Search Bar: The user can search for CityBike info based on a location. There are options to view the weather or a picture of the location (if available) too. This data will be accessed through APIs/current information in the databases.
- ❖ Write a review: Each user can write a review for a given company/location. They can give it a vote out of 5 and write comments. The review will be stored in the reviews database.
- ❖ Welcome Page: The main page that is presented when a user logs in. This page will present the top voted locations based on the opinions of other users.

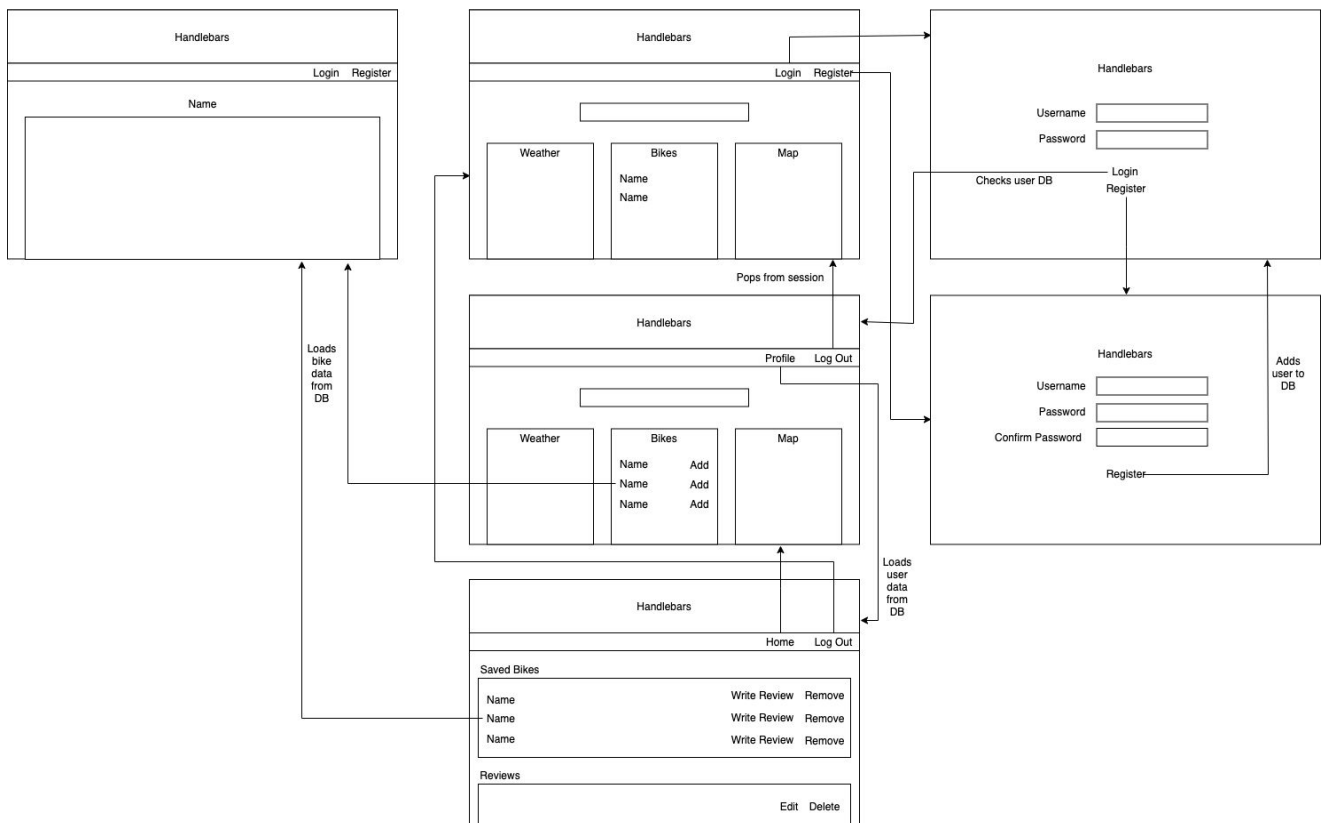
## Site Pages:

Parent page that contains navbar - buttons vary depending on login status/page

- Home Page
  - Contains the search bar - only when logged in!
  - Large jumbotron heading
  - Search Results (again, only when logged in):
    - Weather will return weather from API (has to be most recent)
    - Bike spots will return spots from database and API (bike availability has to be most recent)
    - Map will return an image from API
    - Can take you to that bike company's Reviews Page
- Login Page
  - Credentials fields - checks username and password exists/matches
    - Redirects back to the home page
  - Register button - links to the registration page
- Registration Page
  - Credentials fields - asks for username and matching passwords
    - Redirects back to login page
- User Page
  - Saved bike spots - profile of the bike spot will be loaded
    - Filters through SAVEDBIKES database to find saved spots
    - Consistent details will be loaded from the database
    - Bike availability will be pulled from API
  - Reviews - title, rating, and text of review
    - Filters through REVIEWS database to find saved spots
- Add Review Page
  - Allows users to submit a review for a specific bike company
    - If user has already wrote a review for that company, it will instead allow the user to edit his/her previous review or delete it entirely
- Profile Page
  - Lists all the user's currently Saved Bikes
    - Allows easy access to write/edit a review
    - Allows user to remove the bike from their list
    - Allows user to see all reviews written by users about that company
  - Lists all the reviews the user has written
    - Allows easy access to edit a review
    - Allows user to see all reviews written by users about that company
  - Allows user to easily go back to the search page that led to their Saved Bike/Review
- Reviews Page
  - Lists all the reviews by users of a specific bike company
- Logout Page (backend work: logs out the user and redirects to root)
- Add Bike Page (backend work: adds a specified bike to user's Saved Bikes and redirects to profile)



## #2: Component Map



### #3: Database Layout Diagram

#### USER

username TEXT	password TEXT
hliu00	1234567
jlin02	abcdefg

#### SAVEDBIKES

username TEXT	bikeNumber
hliu00	0
jlin02	0

#### REVIEWS

username TEXT	bikeNumber	rating INTEGER	Content BLOB
hliu00	1	5	The staff was very friendly. The price was reasonable. I will definitely come back.
jlin02	2	2	The pay machines don't work. Lack of service. Too much traffic, not an enjoyable place to rent a bike.

#### BIKES

PRIMARY KEY	bikeID TEXT	City TEXT	Name TEXT	Coors TEXT	Address TEXT
1	velobike-moscow	Moscow	Velobike	55.75,37.616667	Cathedral of the Annunciation, Moscow
2	bicyklen	Copenhagen	Bicyklen	55.673582,12.564984	5 Banegårdspladsen, Copenhagen

### **Minimum Viable Product**

- Full implementation of API
- Working search bar that can handle all types of entries

### **Extra Features**

- Users and profiles
- Saved bike location on accounts
- User reviews

### **Work Division**

- Jeff Lin (PM):
  - Front end design, search bar, and API connections
- Kenneth Chin
  - Bike spot reviews and review display and ratings
- Calvin Chu
  - Front end design, reviews, and API connections
- Henry Liu
  - Login and user sessions and databases