

HandleBars

by Team Handlebars - Pd 9

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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:

<http://api.citybik.es/v2/networks>

Documentation: <http://api.citybik.es/v2/#filter>

MapQuest Open Geocoding:

<https://developer.mapquest.com/documentation/open/geocoding-api/> (requires key)

MetaWeather:

<https://www.metaweather.com/api/>

#1: Site Map

Features:

(Direct user interactions on the site)

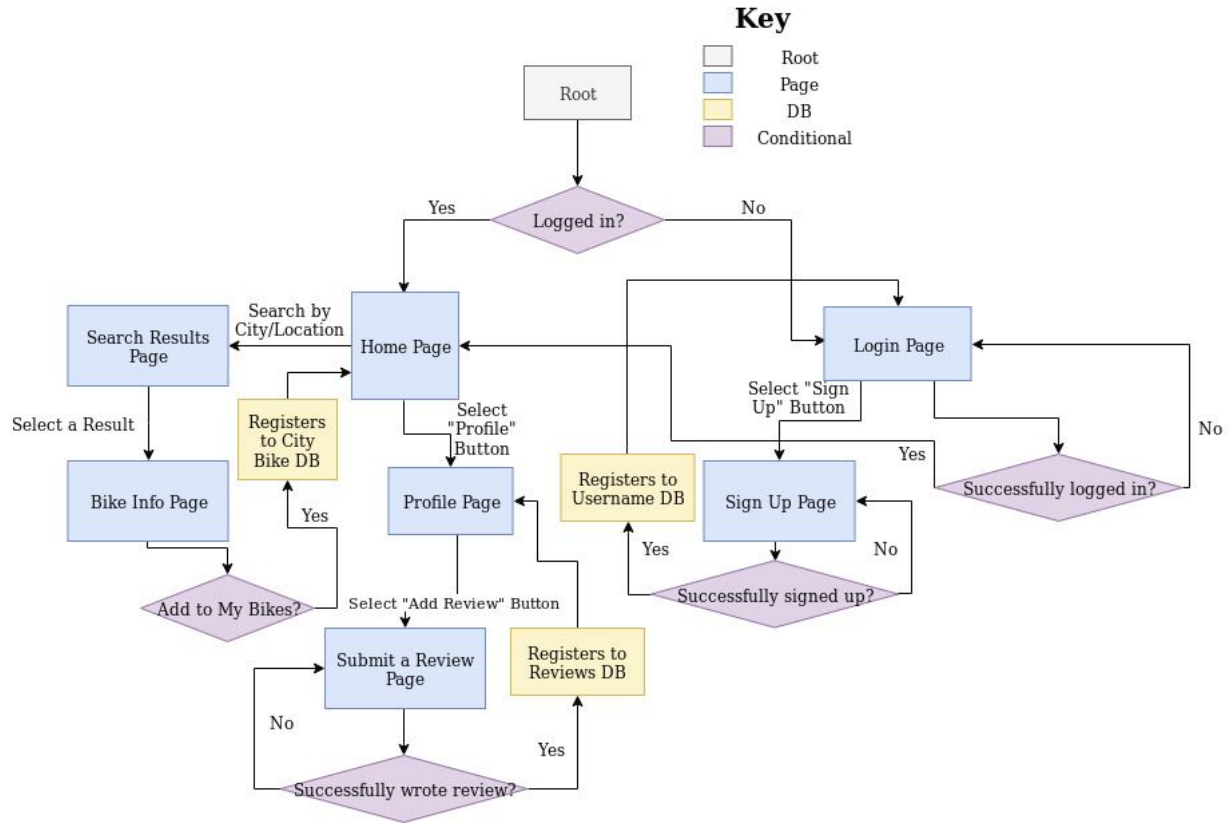
- ❖ Login/Registration: Each user will need to make an account/log in to post reviews or comments and save bike spots.
- ❖ Search Bar: The user can search for CityBike info based on a location. There are options to view the weather or a picture of the location (if available) too. This data will be accessed 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.

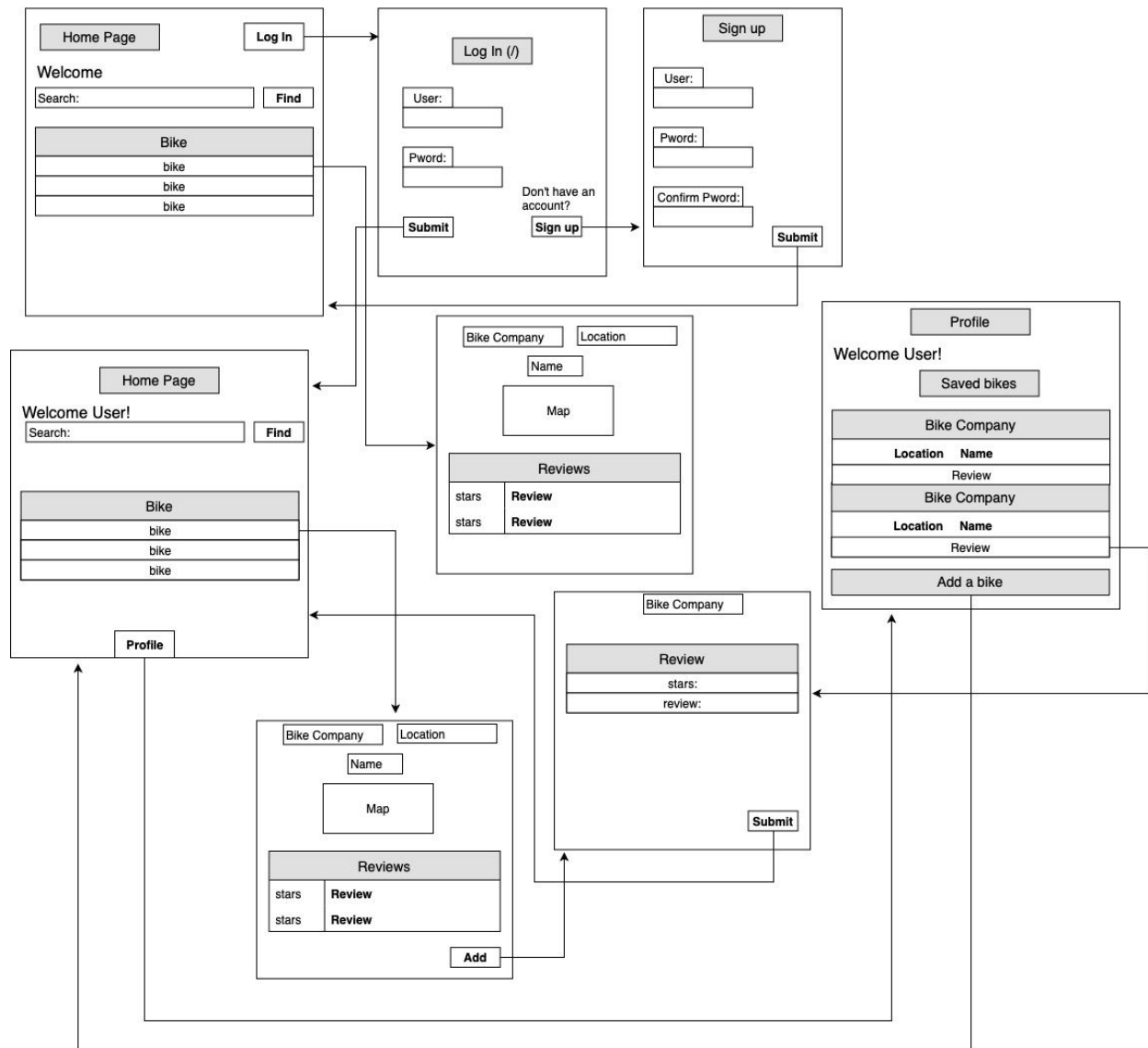
Site Pages:

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

- Welcome Page
 - Contains the search bar
 - Large jumbotron heading
 - Search Results:
 - Weather will return weather from API (has to be most recent)
 - Bike spots will return spots from API and bike availability (has to be most recent)
 - Map will return an image from API
- Login Page
 - Credentials fields - checks username and password exists/matches
 - Redirects back to the welcome 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
 - Consistent details will be loaded from the database
 - Bike availability will be pulled from API
 - Reviews - title, date, rating, and text of review
- Redirect page



#2: Component Map



#3: Database Layout Diagram

USERNAMES

userID INTEGER	username TEXT	password INTEGER
0	hliu00	1234567
1	hliu01	1234

REVIEWS

userID INTEGER	topicID INTEGER	location TEXT	rating INTEGER	Content BLOB
0	0	Moscow	8	The staff was very friendly. The price was reasonable. I will definitely come back.
1	1	New York City	2	The pay machines don't work. Lack of service. Too much traffic, not an enjoyable place to rent a bike.

City Bike

City	Country	Id	Name	Rating
Copenhagen	DK	bicyklen	Bycyklen	4.5
Moscow	RU	velobike-moscow	Velobike	5

- using the city inputted by the user, the id can be used to access the City Bike API to request the specific latitude and longitude.

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, search bar, and API connections
- Henry Liu
 - Login and user sessions and databases