Project Report

CMPE 272
Team 18

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Teng Jin	Save images and user information into MongoDB.
Mingxuan Han	Use google custom search api and maps api to search images and positions for guiders.
Yu Fu	Create abstractive web pages using HTML, CSS, Angular JS.

GitHub:

https://github.com/SJSU272Lab/Fall16-Team18/tree/master/project%20assignment

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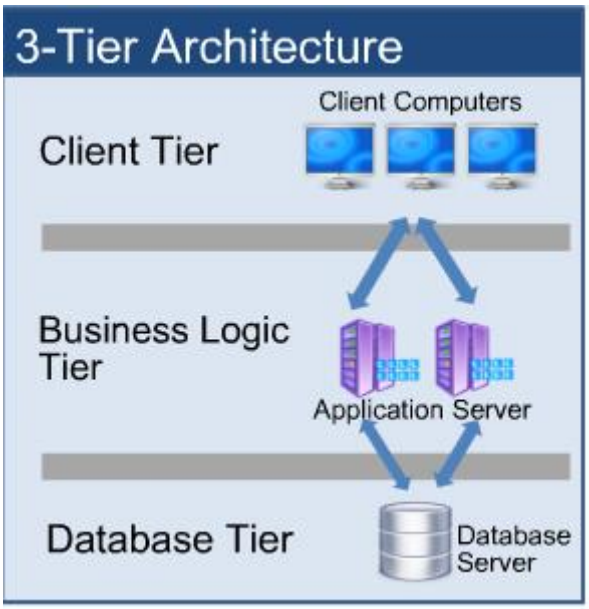
1. Abstract

Hiking on weekend or other outdoor activities are attractive for most people. However, it is difficult for people to find a good place in their spare time, especially those new residence. Besides Yelp, which allows us to get the information for restaurants nearby, and google map, which can guide us to the destination, there is not any other applications to provide us some good places nearby, such as hiking, fishing or so on.

Our project is aiming to solve this problem. We develop a platform for both individual guiders and tourists. Individual guiders can create a destination depends on their choices where they want to offer services. Our platform provides plenty of information like pictures by using APIs for individual guiders to fetch when creating their web pages. On the tourists' side, tourists can search for web pages created by individual guides and then reserve a spot by clicking on the page. Our platform can be divided as three parts, such as server, client and database. We develop a RESTful service by using Node.js (Express JS), use AngularJS and HTML5 for the client side and store data by using MongoDB.

2. Architecture



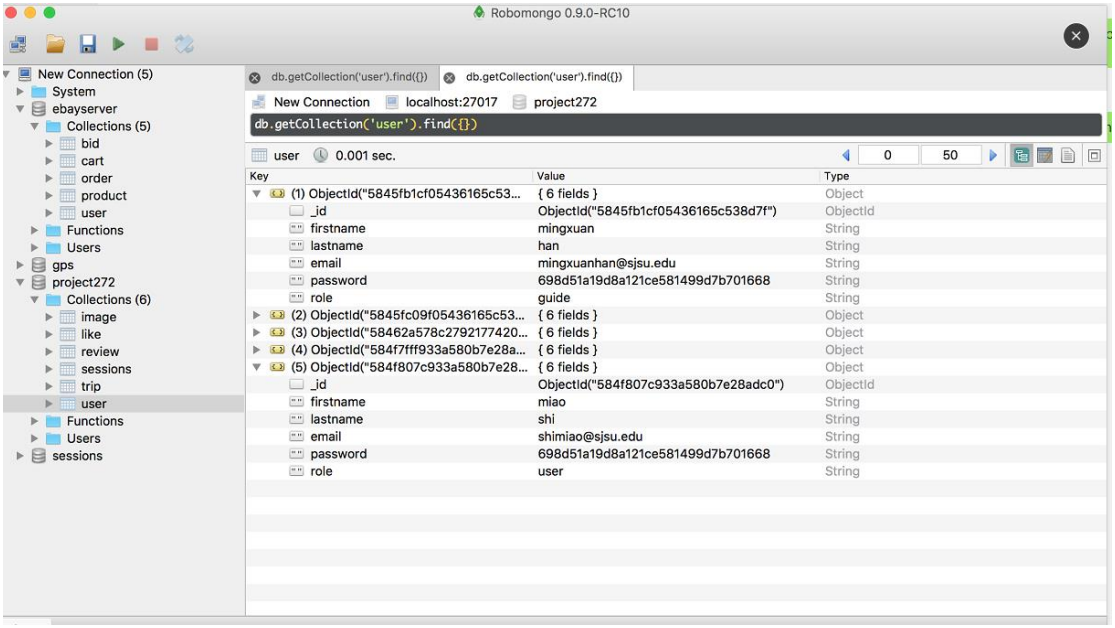
In our project, we use 3-tier architecture which is most commonly used to build web applications. In this model, we use AngularJS, HTML5, CSS and JQuery for the client side, node.js to implement basic logic in the application server and MongoDB to handle data functions. On the other hand, our applications also use Google Maps API to show the accurate location of the destination created by guiders and Google Custom search APIs to fetch images for guiders to make their destination more attractive.

3. Screen Captures

3.1. Database Design

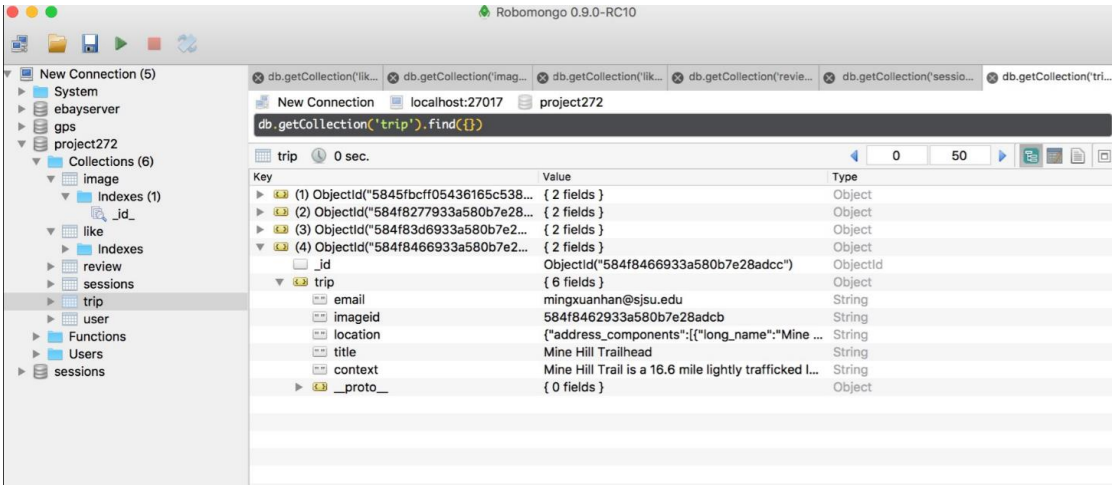
3.1.1. User table

User table contains some basic information of users, such as email address, first name, last name, password and role. The passwords are encrypted by md5 algorithm for the security purpose.



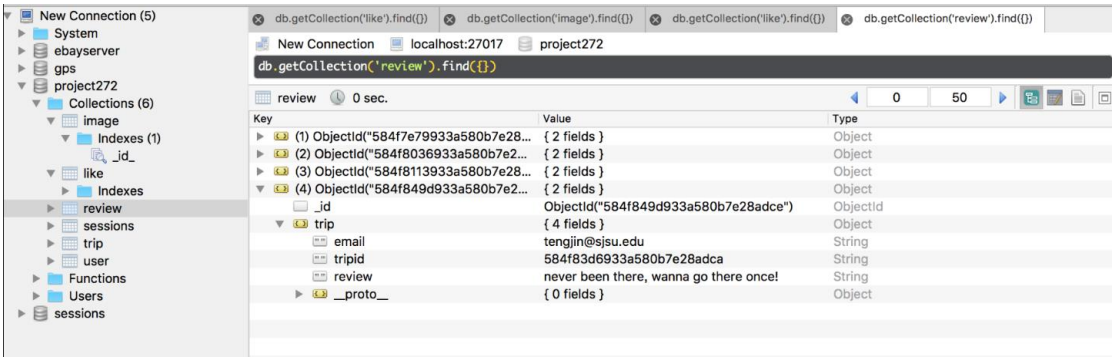
3.1.2. Trip table

In this trip table, it contains the guider's email address, image id which represent the image uploaded by guider, the detail location of the trip and some descriptions.



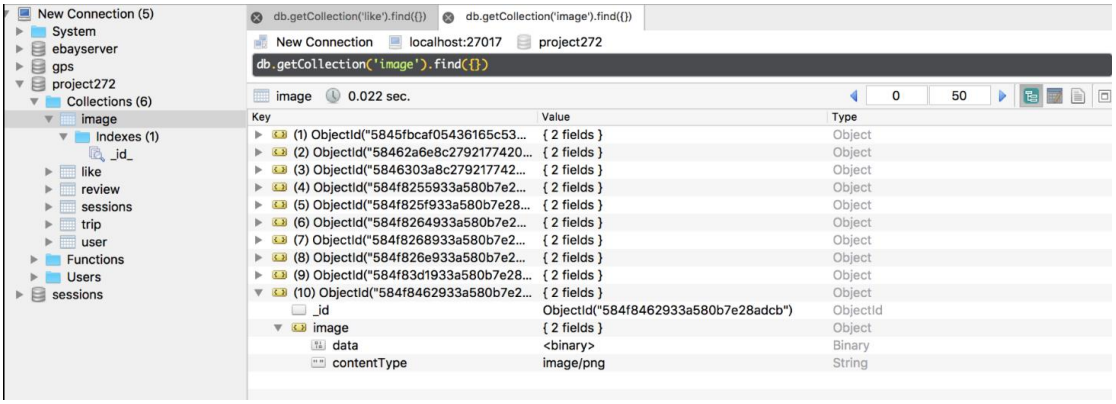
3.1.3. Review table

Review table includes reviewers' email address, trip ID which represents which trip they are reviewing and review context.



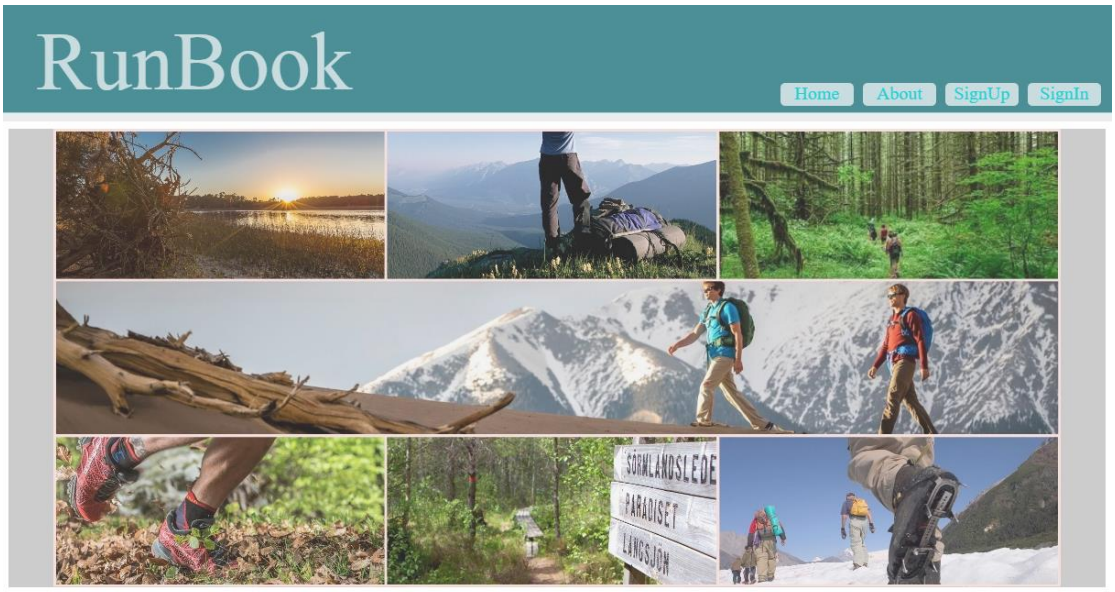
3.1.4. Image table

Image table stores all the images uploaded by users and guiders.

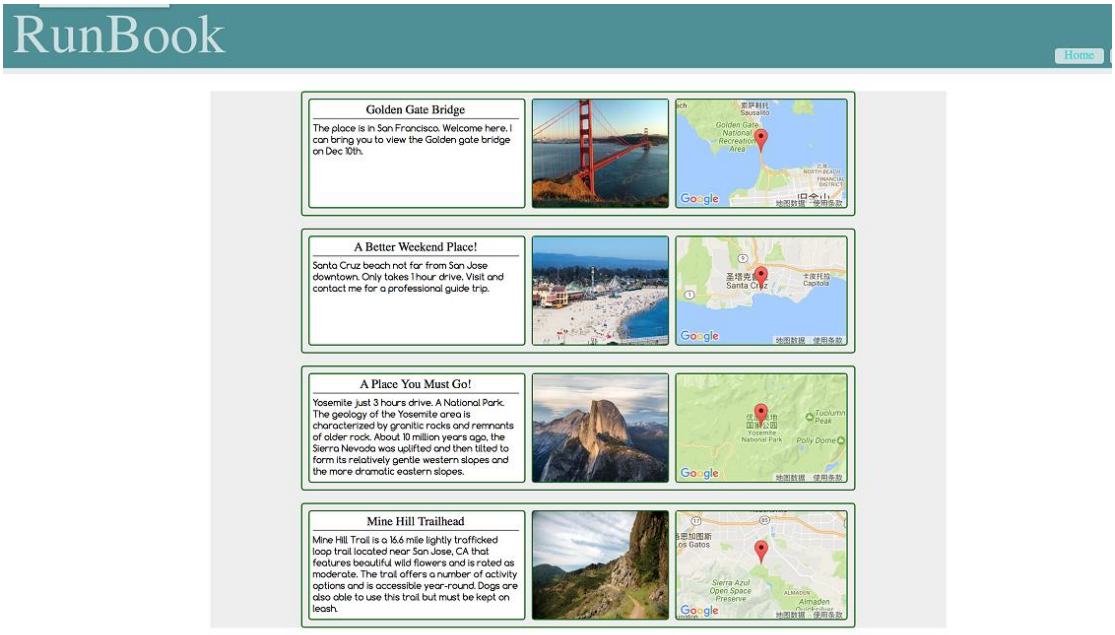


3.2. Web site

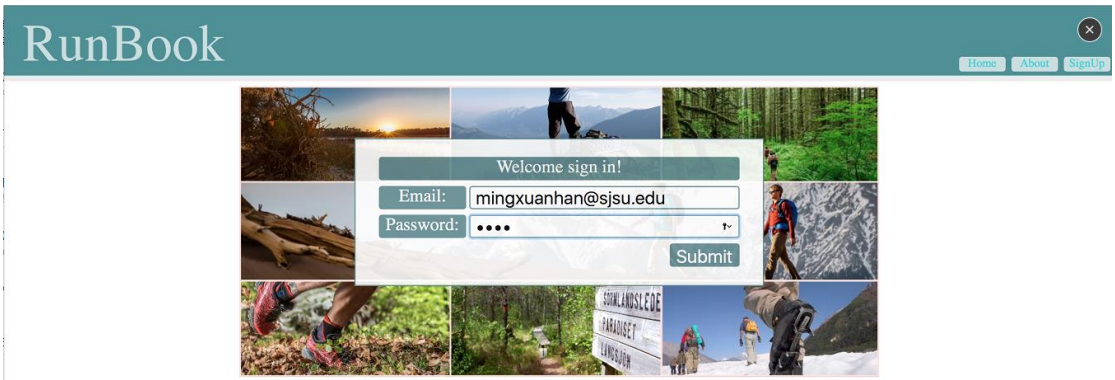
3.2.1. Home page

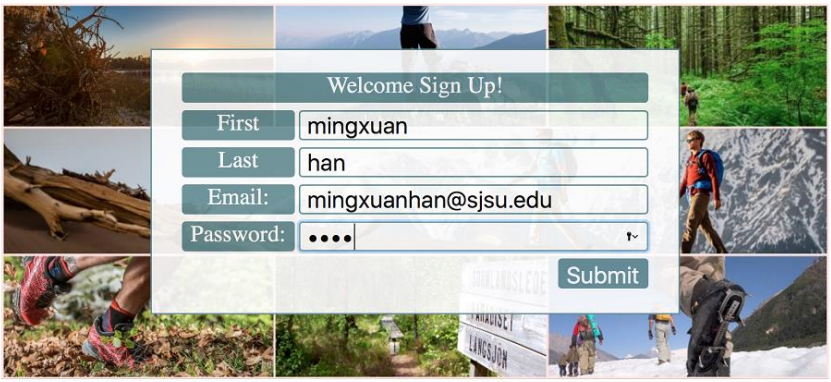


Users can view our website and search for trips if he/she does not have an account.



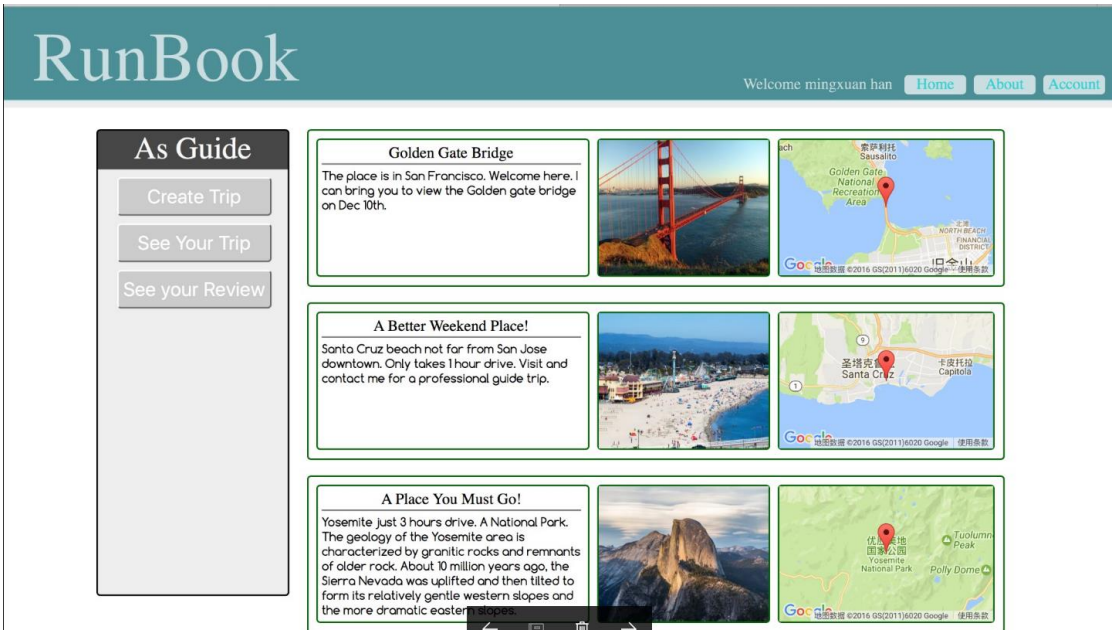
3.2.2. Sign In/ Sign Up page



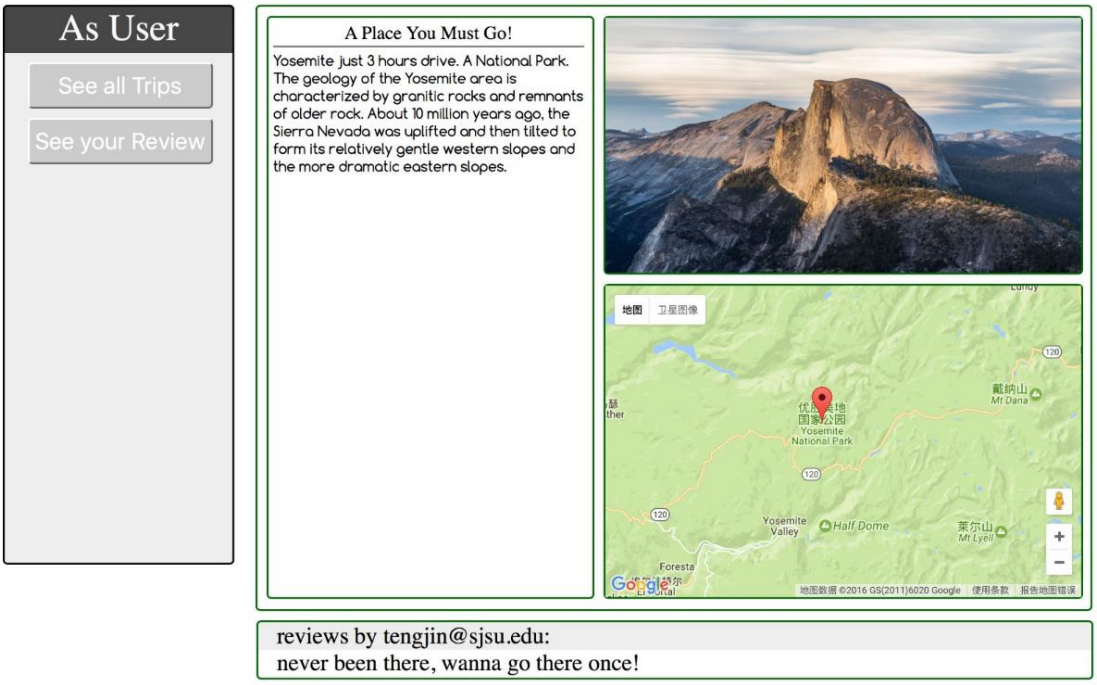


3.2.3. Trip page

After signing in/signing up as a user, he/she can search all the trips in our website, which include the description of the trip, the images uploaded by guiders and the location of the trip in google map.

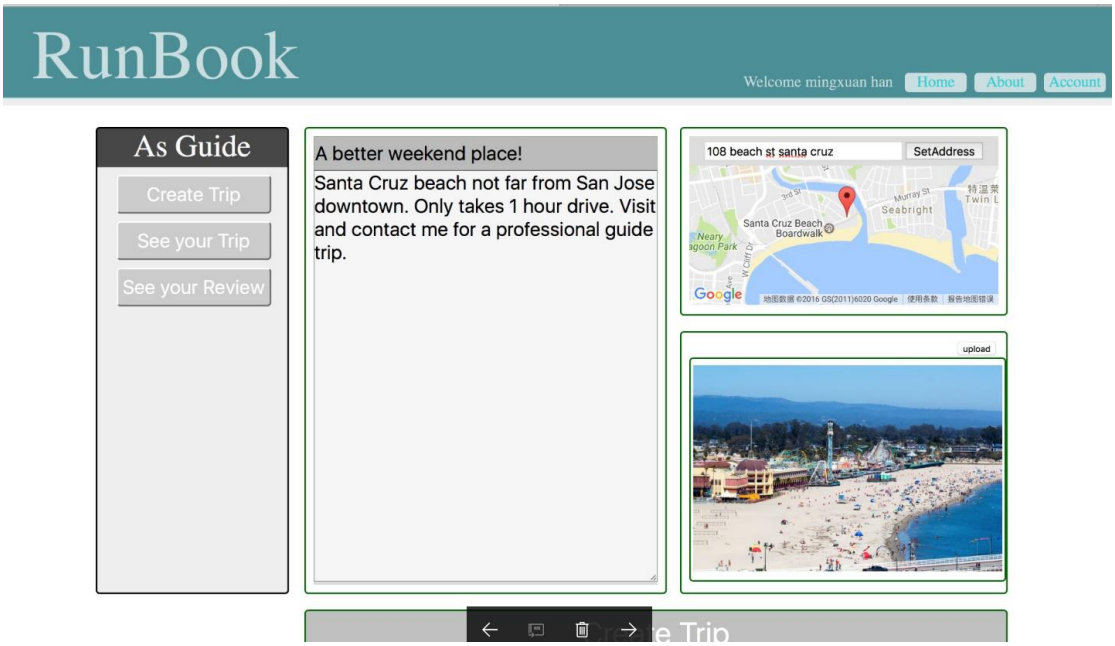


After clicking on each trip, it will show the detail information of the trip. On the other hand, user can see the review information created by others, which helps the user to make a judgement whether the trip is worth going or not.



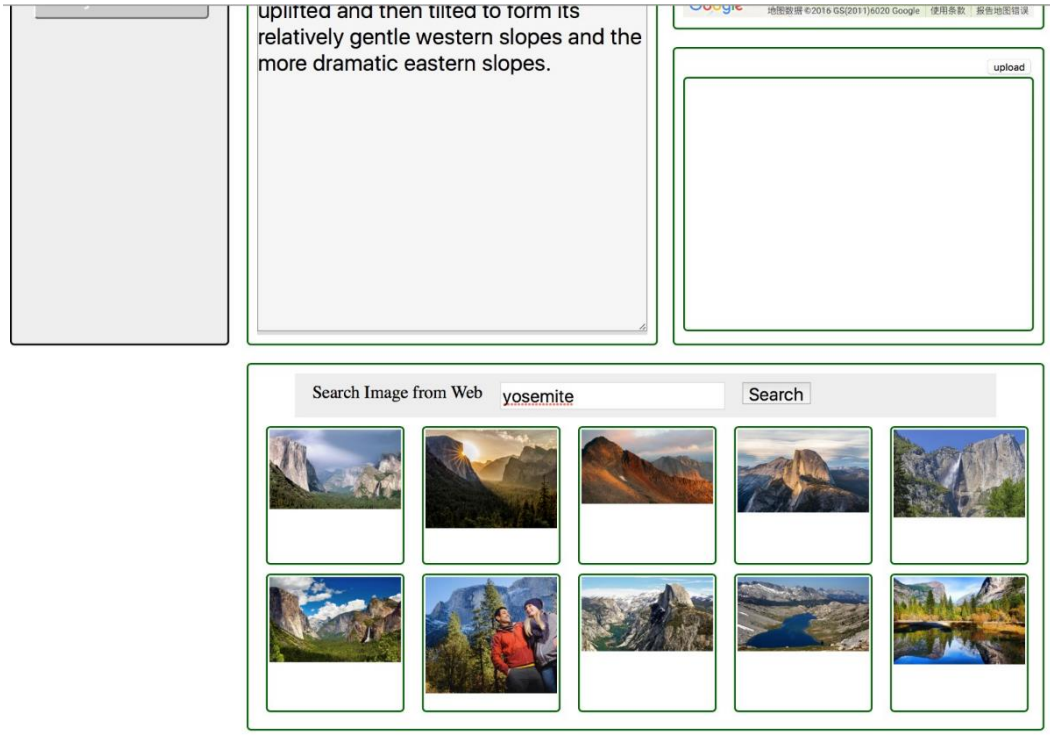
3.3. Create trip page.

After signing in/signing up as a guider, he/she can create a destination of his choice where he/she wants to offer his/her services.



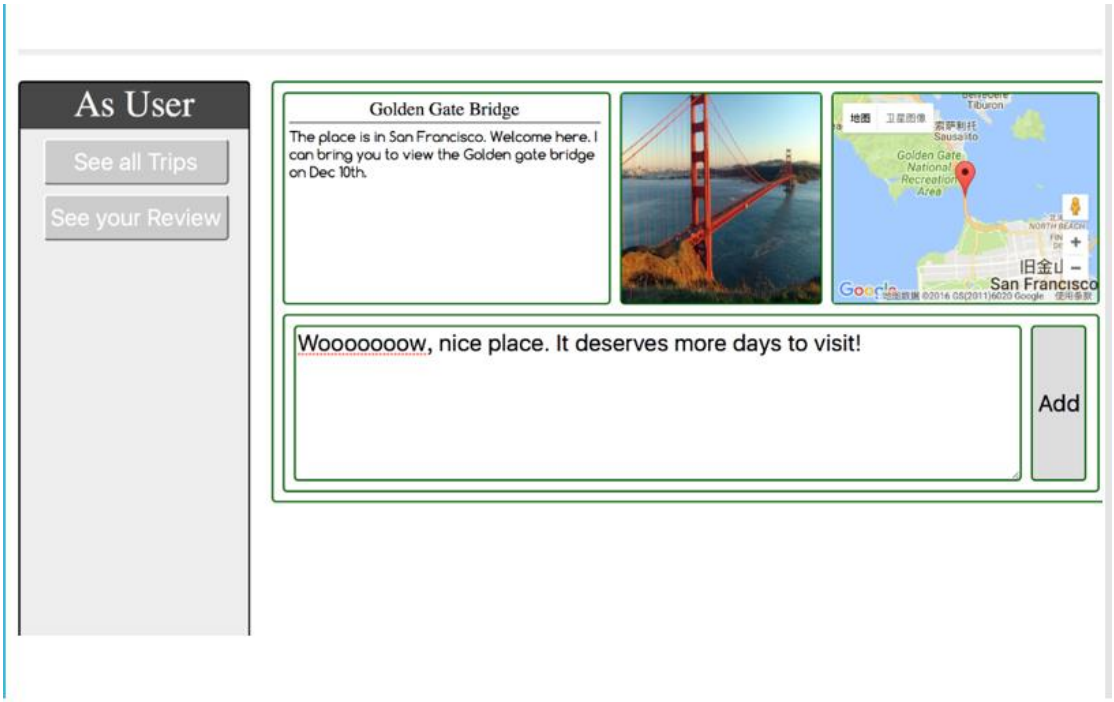
Our website allows guiders to fetch information about these places and pictures to create his web pages. For example, our website uses google maps API to show the accurate position of the destination as well as google custom search API to search images for the destination. Then guiders can select one image or upload his/her own image if he/she likes neither of them.

Here is the images we provide for a guider when he search for the destination of Yosemite.

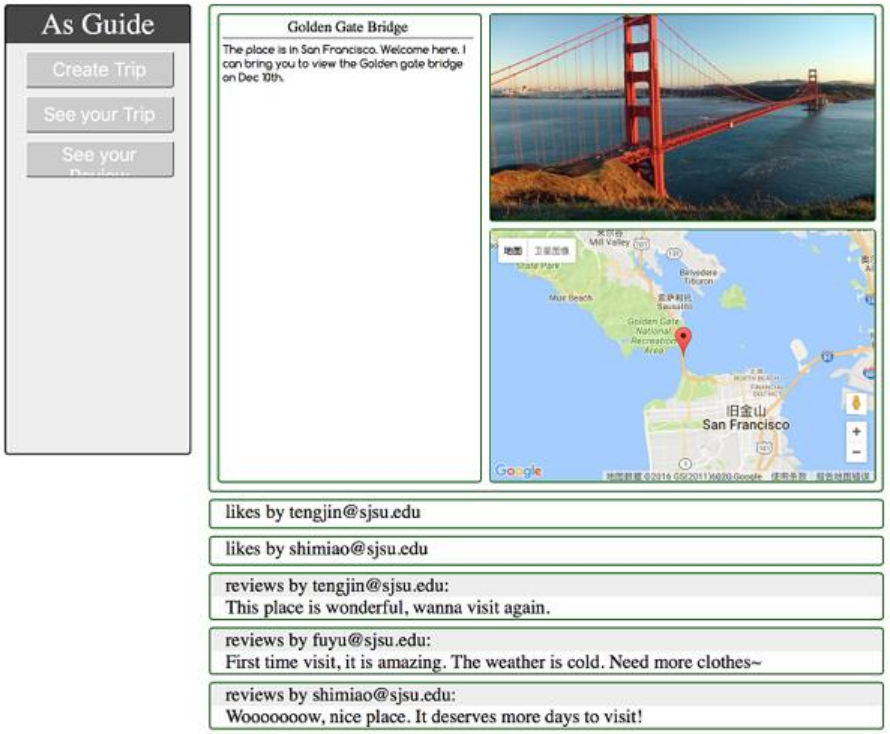


3.4. Review page.

Review is important, because it can help those people who never go there before to know the place through others' review and also get information about the guider, such as whether the guider is nice or not. So our website has a review page for users to review the trip which is also searchable by others.



Here is the page where user can see the review information created by others, which helps the user to make a judgement whether the trip is worth going or not.


As Guide
Create Trip
See your Trip
See your
Golden Gate Bridge
The place is in San Francisco. Welcome here. I can bring you to view the Golden gate bridge on Dec 10th.
Mill Valley
Belvedere Tiburon
Muir Beach
Sausalito
Golden Gate National Recreation Area
旧金山
San Francisco
Google
likes by tengjin@sjsu.edu
likes by shimiao@sjsu.edu
reviews by tengjin@sjsu.edu:
This place is wonderful, wanna visit again.
reviews by fuyu@sjsu.edu:
First time visit, it is amazing. The weather is cold. Need more clothes~
reviews by shimiao@sjsu.edu:
Wooooooow, nice place. It deserves more days to visit!