Yelp Book

Project Milestone2

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Motivation:

We plan to build a social network website based on yelp database. After log in via Facebook account, users can add other users as friends, share their experiences in a specific restaurant, shopping mall, cinema, hotel and etc. They can also post status updates and photos with their friends, as well as view the new feeds of their friends. On the other hand, we also create public pages for each business and give a vivid evaluation of the business including advanced data analysis.

Features:

1. Public pages for each business (restaurant, cinema, hotel, shopping mall, etc.) with basic information and advanced data analysis including:
    a. basic information
    b. map (with nearby competitors)
    c. monthly rating (real-time chart and trend chart)
    d. word cloud based on the the reviews, giving a vivid description of its business
    e. display all reviews
2. Users can add reviews and rate a specific business
3. Users can follow business public pages
4. News feeds: the constantly updating list of posts in the user's home page

(Optional)

4. Users can like / unlike the posts of their friends
5. Users' timelines
6. Create common groups on a given idea, topic or common interest

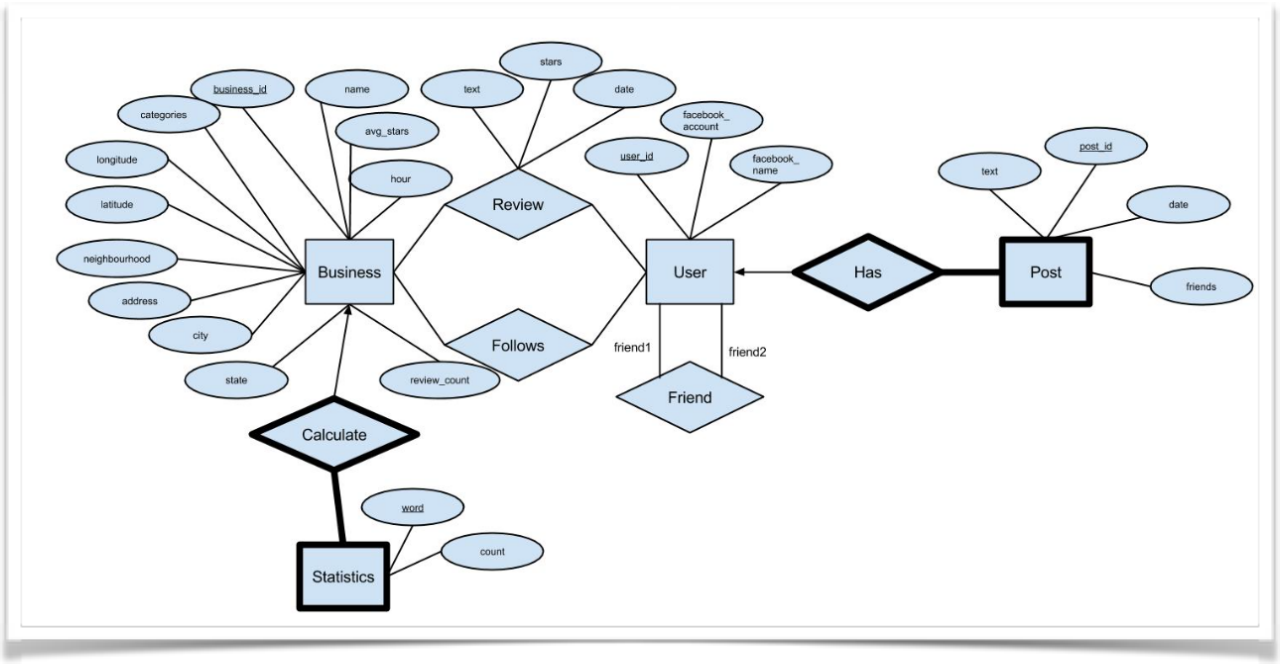
Technology and Tools:

Framework	Node.js
Version Control	Github (https://github.com/Jeremy-WEI/YELP-PROJECT)
Front-end	Bootstrap 3, Javascript
Database	RDS (MySQL)
Deployment	AWS EC2

Member responsibility:

Dichen Li	Establish database schema, populate database with initial data
Linjie Peng	Parse reviews, get keywords to form word cloud, design and implement business data visualization tool
Jingyuan Wu	Google Map API implementation, facebook login and user account system
Yunchen Wei	Implement news feed, friends and related social networking functionalities. Front end design and implementation

ER Diagram:



Relational Schema:

1. Business (business_id, name, neighborhood, address, city, state, longitude, latitude, stars, review_count, categories, hours)
2. Statistics(business_id, word, count)
3. Review (business_id, user_id, stars, text, date)
4. User (user_id, facebook_account, facebook_name)
5. Follows (user_id, business_id)
6. Post (user_id, post_id, stars, text, date, friends)
7. Friend (friend1, friend2)

NoSQL database description: We plan to use MongoDB for pictures storage and organization.