Data part

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**Data Structure & Functions**

We designed the following five tables for our application:

**Sites**

NYC sites, including basic info(name, photo), location info(city, address, zipcode, latitude, longitude), contact info(phone number, website, email), description(history, culture, architect), travel notes(open time, recommending visit time, fee, activities) and ranking.

**Events**

NYC events, including basic info(name, photo), location info(city, address, zipcode, latitude, longitude), contact info(phone number, website, email), travel notes(open/end date), brief introduction and full description.

**Users**

User information, containing basic info(name, password, email, head photo) and profile(description, preference).

**Notes**

Travel notes, reference by Users, containing title, written time, clicked time and access control.

**Contents**

Contents of the notes, Reference by Notes, containing site id, content and photo.

We provided search functions for all five tables. Additionally, For Users, we provided insert and update functions. For Notes and Contents, we provided insert, delete and update functions.

**Data source & Programming tools**

We used Java to download information of Sites and Events from Tripadvisor, Wikipedia and NYCgo website. Information of Users, Notes and Contents were created ourselves. We used phpMyAdmin to load data into our database built on Amazon RDS(MySQL).