Meet-n-Eat - A Geotargeting Suggestion Engine

Project Abstract

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ABSTRACT
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[Native Android Application]

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Meeting friends or colleagues for coffee / lunch is a regular activity we do in our day to day lives. We intend to solve this need for socially active people by proposing to build a mobile application through which, users can decide easily on where to meet and what they want to eat. By determining the geographical location of users either through zip code, country, region/city different content and suggestions can be delivered. Similar applications exist in the market, but their recommended coordinates are restricted to only two distant points. Our solution aims to provide coordinates for more than two distant points and also filters the results based on restaurant ratings and the type of cuisine.

The application will be built in the android development environment using mobile sdk. The prototype of the application will be the first step, followed by iterative development according to the requirements. A new user of the application has to sign up with their details to maintain the user profiles on the server. The membership information will be stored on a server like Amazon EC2. Once a user is logged in he/she could choose their friends profiles and indicate to meet these friends. Algorithms will be developed to determine the midpoint coordinates between locations based on each user's input zip codes and suggest the meet-and-eat recommendations and visualize through google maps API's. The user will be given a list of cuisine options to choose from, along with what the ratings of the restaurant should be (e.g.: A 4 star restaurant). The ratings of the restaurants will be collected from website like yelp. This data shall be periodically updated and cached on the server. Each of the team members will be involved in the analysis, design, development and testing phase. Unit testing would be done for each part of the product to ensure the quality of the product.

Meet-and-Eat application will help solve the problem of deciding a place to catch up with people. Distance shall no longer be a problem, since the application will find the most convenient and desired restaurant which is accessible to everyone. As time is an important factor in every field, our application strives to help manage our user's time better by doing all the meet-n-eat planning for them.