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Meetup

SRS

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1 Introduction

1.1 Purpose

Purpose of Meetup is to tackle the problem of finding a meetup spot for the group on the move. It is a common problem which groups on the move face is to find a place which satisfy everyone's preferences. We will develop an application that will give some suggestions based on what group want to eat and where they want to eat .We will tackle this problem faced by groups and will give them an web application to help them find their meetup spot conveniently.

1.2 Document Conventions

The convention that is followed in writing documents is IEEE standard 830 SRS template.

1.3 Intended Audience and Reading Suggestions

This document is intended for developers, project managers, testers, documentation writers. The following document follows a hierarchical structure. The subsequent parts are ordered as in starting giving an abstract idea about the project and its need, then following the description of the overall project, specifying different functional requirements, following the interface and system features and ending with the note of describing non-functional requirements. It is better to proceed from start as it will lay down the image of the project step by step. If you already have an abstract idea in your mind, them you may skip the introductory part.

1.4 Product Scope

Meetup is basically a platform that will enable groups to pick a hangout place at the ease of everyone and keeping their preferences in mind. It will search for the all the places that will satisfy the user preferences and then will return a list of restaurants or cafes on which the group member can vote and see which places suits the best.

1.5 References

The template is taken from this Link :- Reference link

2 Overall Description

2.1 Product Perspective

In today's world where everything is just a click away, selecting which product suits us the best among thousands of similar products is tough choice to make but selecting which food to eat where when in groups consist of different set of problems, some place don't offer good food some are far away. Therefore we are making an application which will solve all these issues will show you a list of restaurants offering the food you want with ratings given by users and will show all relevant details needed to know about the restaurant. We will also give a platform to share it with your friends where your friends can vote on the restaurant they want to go according to their preferences and therefore helping groups on the move to pick a place to hangout.

2.2 Product Functions

The user will be required to insert two input saying what the user want to eat and the name of city where he wants eat. Based on the input given by the user Meetup will show a list of restaurants that will be satisfying the constraints with the rating of restaurants and a link to see all the details about the restaurants like reviews, price range, opening and closing time and many more. Suggestion will also consist of vote field where if user wants can share it with its group and they can vote on which restaurants they want to go and does reducing all the effort of choosing a hangout place to a simple two input form.

2.3 User Classes and Characteristics

The product is used by the following classes of people:

- Persons who love to hangout
- Families in picking a spot on which everyone agrees

- Non Commercial
- Persons who like to use experiment with their hangout places.
- Personal use.

The primary audience will be the class of persons who like to hangout with their friends or with their family. Along with the class of peoples who loves food, this will also be towards getting more attention from non-foodie audience as well. They might not like going out for food generally but for occasional purpose they can use this application.

2.4 Operating Environment

The application is primarily launch on the web platform because since it will be a website it will be accessible to two most used platforms desktop and smart phones. Nowadays where people use smart phones for all their day to day tasks we will be making it progressive web app which will give it a look of web app. We will be using Django for this application and will be working with Firebase database to store the vote counts.

2.5 Design and Implementation Constraints

- We are going to use yelp API for providing database service for restaurants and we are developing this app on free tier account, so there is a limit imposed on all the functionalists to use (limit on quantity in each request).
- The Website later will be hosted on pythonanywhere using the free tier account which restricts the database upto 512MB.
- The deployment will be done on pythonanywhere where low bandwidth will be given for our app.
- Currently the yelp API we are using might not support for some of the cities but later using couple of different API together can result in better coverage of all cities and restaurants.
- Application will work only if user is online and won't be able to suggest any restaurant if user went offline.

2.6 User Documentation

The user documentation components are:

- User Manual
- Online assistance

The description of these can be found in their respective docs.

2.7 Assumptions and Dependencies

- We have assumed that the audience we are targeting have familiarity with the use of applications primarily android and websites.
- Also there is an assumption that the user knows what he wants to eat.
- It is assumed that API is gives correct information about restaurants and is updated
- It is assumed that the API has all the data about restaurants of any city and is correct.
- The application is highly dependent on the services of API and all the functionalities are documented in their docs.
- It is assumed that all the devices have internet connection enabled.

3 External Interface Requirements

3.1 User Interfaces

In User-side App, firstly there is a page which will ask you to input your preferences namely what you want to eat and in which city is you wants to eat. After the user submits the query, you will be redirected to a new page which will consist of list of restaurants and all other details regarding the restaurant along with the vote count and button.

3.2 Hardware Interfaces

We will use smart phones/desktops for interaction between end points, which having a decent internet connection.

3.3 Software Interfaces

We will release a simple web application.

3.4 Communications Interfaces

We will be using a database listener for a listening and logging the changes in the main database for votes.

4 System Features

There will be single app targeting different classes of user, which can be anyone among the society. The user app will have personalized recommendations, notifications, material user interface, portal for personalized foods suggestion and smooth experience. The user app will contain real time messages for votes.

4.1 Description and Priority

The main theme of our application is to let user decide a preferred locations which are unable to discuss on the other social medias. And we want to minimize the selling price of the good while maximizing the profit to artist means we want to cut off mediator.

4.2 Stimulus/Response Sequences

User-side

1. User first have to create a poll by desired food and location where he to eat.
2. User then can see the desired hotels in that location which are available on the app with the ratings.
3. After creating a poll it will create a shareable link which user can share among his/her friends.
4. Now his/her friends have to join that groups via that link and then they can see result which first user had searched now they all have to vote for their choices among all results.

4.3 Functional Requirements

4.3.1 Poll Creator

- **Input :** User have to fill desired food name and location for creating a poll.
- **Output:** The triggered update on database will result a list for preferred hotels in that location.

4.3.2 Poll Voters

- **Input :** Voters have to paste that link in join poll log.
- **Output :** The logging of the poll will show the results which creators had searched for.

5 Other Nonfunctional Requirements

5.1 Performance Requirements

1. In a situation where there is no internet connection,an empty home view should be prepared to display the inability of the website to fetch the required data from the yelp API.
2. Server should handle multiple requests properly without the server breakdown.
3. Server side processing should not overkill the system resources used by other processes.

5.2 Safety and Security Requirements

In website, one need to enter food item name and location so there is no need to login by the user in website. So there is no need of additional safety and security requirements.

5.3 Software Quality Attributes

1. Maintenance of documentation standard.All the documents must be in proper format, technically accurate and completed on time.

2. Inspection and reviews of all the documents. Every document is reviewed by some other team member and changes are suggested. These changes are then incorporated according to the configuration management plans.

3. Coding conventions are followed in the whole project coding and implementation phase. This makes the software code easy to understand and maintain.

4. Verify that relevant documents are updated and based on approved requirement changes.