**Location Directory and Path Finding Management System.**

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**Abstract**

The project is to be implemented on Madurai city in which it helps the user to find location based on various category. The goal of the project is to explore city with a Categorised web application. The prototype implemented includes basic functionalities of city guide such as showing a map, locating points of interest (POIs) on a map, locating location of a user, retrieving information of POIs, add reviews about POIs, plan a tour, support communication (e.g., phone, short message), show route direction to POIs, add reminder, and choose different kinds of POIs to show on map. Directories contain a large number of listings under different categories. It provides tools like searching, filtering, pictures, location information with maps, places information, contact details, and more. It is community driven and built on user generated content.

1. *INTRODUCTION (HEADING 1)*

Given problem is to find a solution for searching a location in a categorised list of directories. This project acts as an important role in helping people to locate to their places inside a city and promote their business. The project directory is developed so that users can view the detailed information about the particular city. The users are register by providing details such as Name, Mail id. The project also has a login page where the registered user can login. User can explore popular places as categorised lists like tourist places, restaurant & residency, jewellery, banking and finance, automobile, shops and they can also promote their shops using ads. Thus, this application helps to select the location they need to explore in an efficient manner. Primary Goals of the analysis are: (1) To try to understand more about the Dataset and its attributes (2) To figure out relationships between the Attributes of the Dataset and Target of the Dataset. (3) To find out inferences regarding Location prediction from the Dataset. (4) To find out the Accuracy of the location for different Classification models.

# Methodology

## Examining the Dataset

All the columns has integer or String values in it. No Columns possess null values. Column values of the given dataset are: Title (Title of the organization), Service (The organization provides), Description (A brief detail about the organization), Logo (Image of the organization), Category and sub-category, Location (Where the organization is located), Email, Mobile, Address, Business Details (Like Website, No. of Employee, working hours, Established date), Gallery and video about the organization.

## Data Cleaning

Dataset does not possess any Null values or redundant values. All the Dataset variables are needed for the classification so we cannot remove any rows or columns in the dataset.

## Visualization

The Visualization techniques are used to visualize the dataset and find out any relationships between the attributes and understand more about the Dataset. Following are the Inferences from the Visualization techniques: (1) Most of the users using the websites are new to the city. (2) Foreigners depend on the website because of the language barrier they cannot able to communicate and ask for a specific place (3) Clients need to get their place well known in the city by using this website. (4) Generating advertisement according to user likability.

## Data Pre-Processing

All the values in the dataset are integer or string values. No other type of value is used to represent a classification of data.

But the dataset has both Categorical and Numerical variables. And the range of Numerical variable values are random and cannot be compared with each other. The Numerical variables are "mobile", "Number of employers", "Establishment", "Working hours”.

## Testing splits

We have to split and test each module for error free application. By performing the test for every module, the result will be obtained. The main aim of developing this application is to reduce the time and to give an accurate location in a city. Thus, this application provides the required information for quicker decision making.

## Performing Testing

The Above Split up dataset also known as the testing dataset will be used for finding out the accuracy of these modules. By testing modules like Register, login, Update profile, Re-set password, Dashboard, my listing and submit listing the performance of the application will be found out.

# Results

Both front end and backend are developed simultaneously. After testing the all split up modules the results were obtained. The application is finished and all modules works properly.

# Using the Template

These are the discussions made after analysing the dataset:

* The proposed system provides the most accurate route and reliable path to the user.
* A suggestion-based system determines the similarity to users and produces a prediction for the user by taking the weighted average of all the ratings.
* Application use some indexes which are appropriate to evaluate our approaches, such direction, contact information, Working hours, reviews, updates.
* To predict a rating for a place, the application calculates the overall review such as like, rating, comments. This enables users to find not only content items they are currently interested in, but also those in which they might become interested.
* The current data of a place can be added easily and incrementally with an updated set of information.
* It’s used for collecting and analysing a large amount of information on a user's behaviour, preference and predicting what users will like based on similarity to other users.

# Conclusion:

## We have analyzed and got to know some of the important attributes that may lead to a precise path for a specific location and suggest places that user might have like by analysing the information on user behaviour. We have used different testing methods to get more accurate predictions. All the modules are important and removing any of them may reduce the model accuracy.

##### References

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