

Get-a-Doc Recommender System

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Link to the paper : <https://sci-hub.se/10.1109/ICRITO.2018.8748776>

Summary :

A number of web and mobile based applications exist for finding and booking a doctor's appointment – like Practo and Portea through the application. However, these applications list multiple specialists instead of providing the perfect match of doctor according to user preferences. Though the present apps provide filters to shortlist the selection, yet a user needs to browse through the entire list of doctors. Moreover, only a single filter can be applied at once, in general. The current work presents a web-based application, Get- a-doc, which provides a user with the best match out of available doctors according to his preferences. main motivation for building the project was to reduce the effort and hassle that the user needs to go through when he has to go through a list of doctors, to find a suitable match according to his/her needs.

Proposed system :

Web Application – user enters type of doctor , location , requirements, web app is made using Django.

Database used : MongoDB

Existing similar systems : Practo , Portea

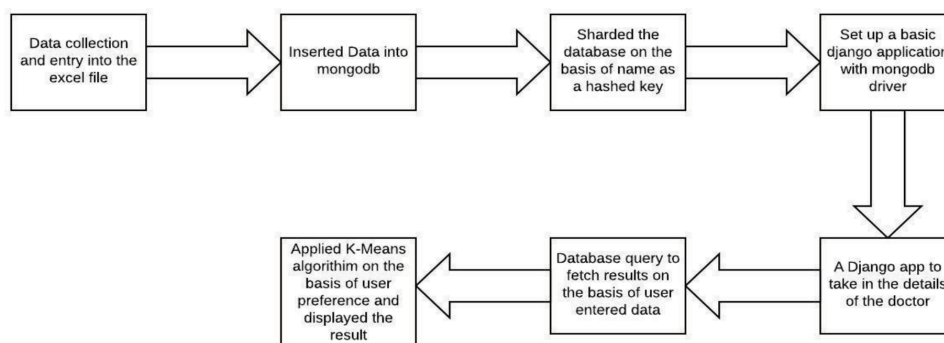
Database : MongoDB is used which is a shared distributed system which ensures scalability and also has faster response and performance than normal Relational Database Management System.

Dataset : The data has been first manually inserted in an excel file, by going through the details of doctors that are freely and openly available on the internet. Presently, the database consists of records of doctors from Noida and Delhi, encompassing specialties of Dentistry and Dermatology.

Working :

- Data collection and insertion in MongoDB.
- Store data in hashed format.
- User enters query.
- K-Means Algorithm is applied to retrieve the best match.

Framework / Methodology :



Example of the web application + the result obtained:

Doctor Type:

dentist

Locality:

Sector-36

City:

Noida

NEXT

THE PERFECT DOCTOR FOR YOU IS:

Name - Dr. Bijoyesh Marda

City - Noida

Fees - 300

Experience - 20

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