

# Medicine Recommendation System using Chatbot

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**Abstract** - As you will discover in the accompanying articles, we started our work by understanding what recommendation systems do and what different recommendation systems exist. We found three types of recommendation systems: simple recommenders, collaborative-filtering recommenders, and contextual-recommenders.

**Key Words:** Chatbot, Medicine Recommendation, Medical

## 1. INTRODUCTION

Businesses integrate chatbots into many processes and applications. You might need to interact with one while buying an medicines from websites. If you have any kind of disease, then you will get the answer automatically with the help of chatbot. Developers build chatbots to understand customers' needs and assist them without needing human help, making chatbots very useful for many customer-facing businesses.

## 2. OBJECTIVE

Simple recommenders are straightforward lists that are not necessarily tailored to any individual user. If you look at the list of "top medicines of your disease" on web, that constitutes a simple recommender: there is not much contextual input on behalf of the user.

Contextual recommenders, in turn, make use of varied inputs to make sure that recommendations are more medicines. They include keywords and other forms of input to filter recommendations. An example is searching for disease based on keywords about the fever, cold, etc.

## 3. FEASIBILITY STUDY

A feasibility study is a test of system proposal according to its workability, impact on the organization, ability to meet user needs and effective use of resources.

### Economic Feasibility

The financial and the economic questions during the preliminary investigation are verified to estimate the following:

- The cost to conduct a full system investigation.
- The cost of hardware and software for the class of applications being considered.
- The benefits in the form of reduced cost.
- The proposed system will give the minute information, as a result the performance is improved which in turn may be expected to provide increased profits.
- This feasibility checks whether the system can be developed with the available funds.

### Technical feasibility

- Can the work for the project be done with current equipment existing software technology & available personal?
- Can the system be upgraded if developed?
- If new technology is needed then what can be developed?
- This is concerned with specifying equipment and software that will successfully satisfy the user requirement.

### Operational feasibility

- It is mainly related to human organizations and political aspects. The points to be considered are:
- What changes will be brought with the system?
- What organization structures are disturbed?
- What new skills will be required? Do the existing staff members have these skills? If not, can they be trained in due course of time?
- The system is operationally feasible as it very easy for the End users to operate it. It only needs basic skill about computer system

## 4. METHODOLOGY / PLANNING OF WORK

### Data collection Methodology

- Document Analysis: we try to discover all the written documents about the organization areas relevant to the system.
- System Development Methodology
- This project is developed by the object oriented programming (OOP)
- It is clear and modified in class models and object oriented
- It uses methods and functions easily.
- The program must inherit in different functions and methods.
- Support the polymorphism in the programming factor.

### Programming and data base tools

This project developed by PHP.

PHP is one of the most popular server side scripting languages running today. It is used for creating dynamic webpage's that interact with the user offering customized information. PHP offers many advantages; it is fast, stable, secure, easy to use and open source (free), there are many reasons to love PHP. Let us count the ways

- Cost: PHP is rather human-friendly. Completely free.
- Ease of Use: PHP is easy to learn compared to many other scripting languages.
- Embedded: PHP can be easily fixed directly into, HTML. CSS.
- Compatibility: PHP runs native on all UNIX and Windows platforms.
- The project use MYSQL for database tools
- Microsoft Word 2013 for documentation
- Star UML Diagram and Edraw Max for analysis

This is used to draw different UML (Unified Modeling Language) that are necessary to structure the system

## 5. MODULES OF THE PROJECT

### User Module

- ✓ User Registration
- ✓ Find Medicines by Keywords

- ✓ Place Order (Medicine)
- ✓ Consult with Doctors by Chat (Talkto).

### Admin Module

- ✓ Check User Data
- ✓ Update Keywords
- ✓ Manage Doctors
- ✓ Stock Management

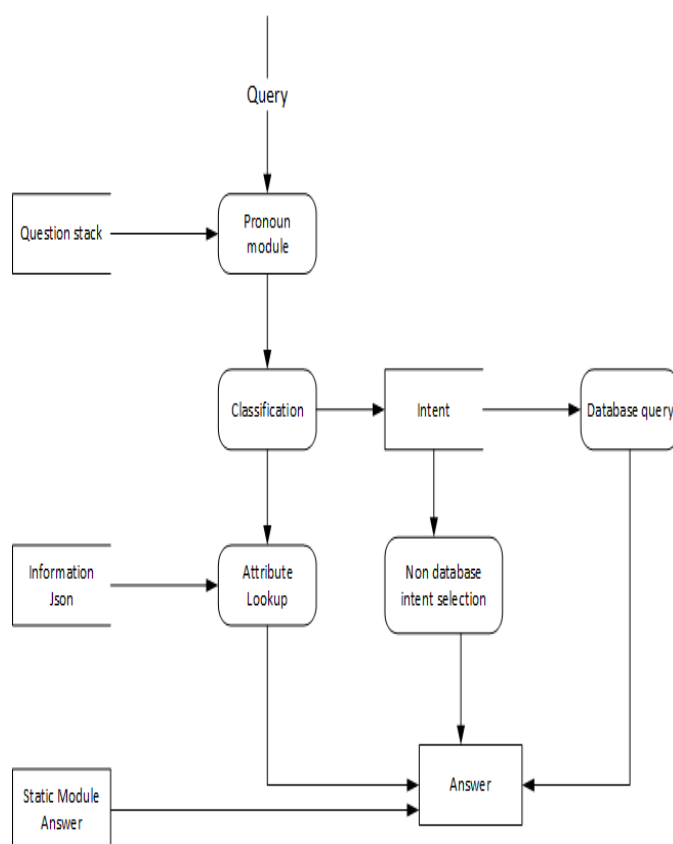
### API Integration

- ✓ Chat API
- ✓ Facebook & GMail API
- ✓ E-Mail API
- ✓ Mailchimp API

### Android App Development

- ✓ Web to App (Apk)

## 6. DIAGRAM



**Fig 1 (Chatbot)**

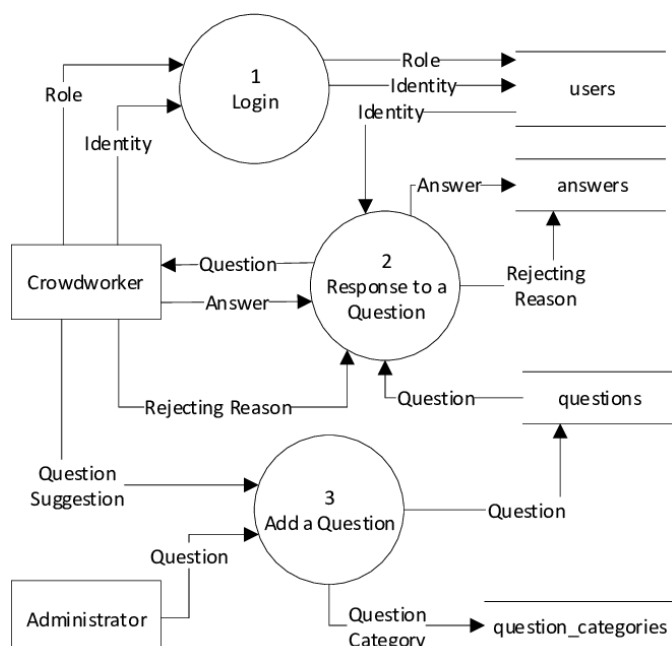


Fig 2 (Request Chat)

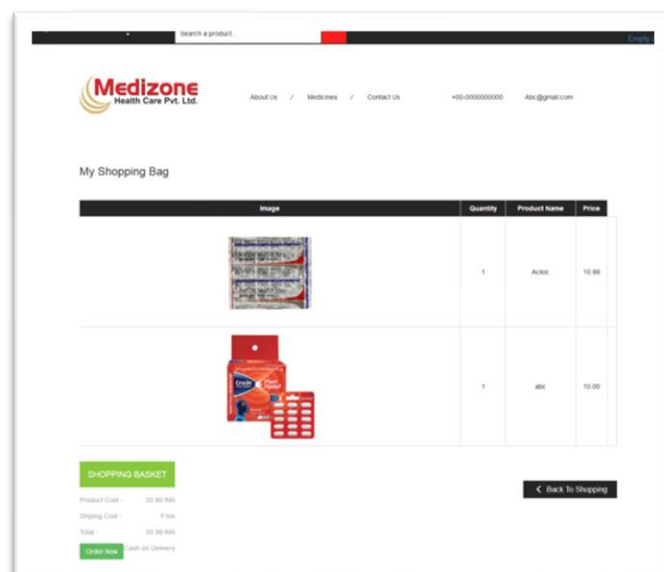


Fig 5 (Cart Details)

## 7. OUTPUT & RESULTS

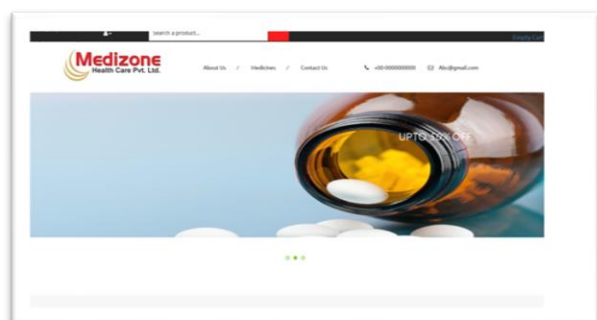


Fig 3 (Home Page)

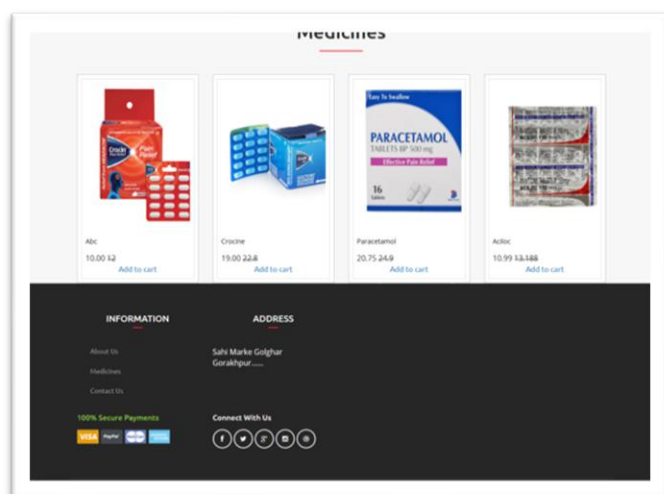


Fig 4 (Medicine Details)

## 8. CONCLUSIONS

As you will discover in the accompanying articles, we started our work by understanding what recommendation systems do and what different recommendation systems exist. We found three types of recommendation systems: simple recommenders, collaborative-filtering recommenders, and contextual-recommenders.

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## REFERENCES

1. [https://en.wikipedia.org/wiki/Protection\\_of\\_Women\\_from\\_Domestic\\_Violence\\_Act,\\_2005](https://en.wikipedia.org/wiki/Protection_of_Women_from_Domestic_Violence_Act,_2005)
2. <http://www.helplineinlaw.com/family-law/DVLI/domestic-violence-in-india.html>
3. <https://www.legalserviceindia.com/articles/dmt.htm>
4. <https://themeforest.net/search/security%20company>
5. <https://www.w3schools.com/>
6. <https://codeigniter.com/>

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