

# Chatbot for Hospital Management

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## Overview

With information retrieval and natural language processing (NLP), it is now possible to automate a lot of interactions in a hospital. Examples include fixing appointments, and basic queries such as availability of medicine.

These interactions between patients and hospital staff can often take a lot of time, especially when there are a lot of patients. This project aims to implement a chatbot that can be useful for all the stakeholders in the hospital.

This system aims to reduce the time taken for the aforementioned actions, without causing any inconveniences. We aim to provide a user interface where people write their query in the normal language and get their requests satisfied.

## Implementation

We will implement the chatbot using python and machine learning. The front end will be designed using a python web framework such as Django or Flask. The user query will be processed using NLP capabilities provided by services such as DialogFlow or wit.ai. A custom backend written in python will be used to process the refined input and to output the desired query. We propose to use MySQL for data storage.

## Work Distribution

- Aditya - Backend (processing the output from NLP and performing tasks accordingly, database work, etc.)
- Bharath - NLP (training the bot, integrating with the rest of the project)
- Sainadh - Frontend + Backend Integration