

Project Topic

Assisting General Public in Government Hospitals Using Bot

Abstract:

The use of chatbots in the healthcare industry has revolutionized the way patients and visitors access information and services in hospitals. Government hospitals, in particular, face the challenge of assisting a large number of patients and visitors, especially during peak periods of demand. To address this challenge, we have come up with a solution by developing a bot which helps the general public by providing guidance specifically in finding locations inside the hospital.

By using the bot, government hospitals can provide an efficient and seamless experience for patients and visitors. The bot can help individuals navigate complex hospital layouts and find specific locations quickly and easily, such as the emergency room, pharmacy, or specific departments.

To implement a chatbot to assist the general public in government hospitals, a map of the hospital's layout is required, including the location of all departments, rooms, and key landmarks. This map can be used to create a graph, with the hallways and rooms representing the nodes and the distances between them representing the edges. Using the Dijkstra algorithm, the bot can find the shortest path between the user's current location and the desired location.

In addition to providing assistance with finding locations using chatbots, voice bots are also included that can offer a personalized experience to visually impaired people.

The bot guides both the general public and the visually impaired people as it acts as both voice and text assistant. By using a Braille keyboard, visually impaired people can access the bot in the same way as the normal people.

In conclusion, the bot can assist government hospitals in providing efficient and effective services to the general public as well as the visually impaired. By using the bot to help individuals find locations within the hospital, government hospitals can reduce the burden on staff, improve patient experience, and ensure timely delivery of healthcare services. The bot provides an excellent opportunity for government hospitals to use technology to improve healthcare facilities.

Team members:

Aparna Gayathri .N	–	231011
Ananda Dharshinee. M.S	–	231009
Bhavya Srii .A	–	231018
Dheepika .R	–	231025