

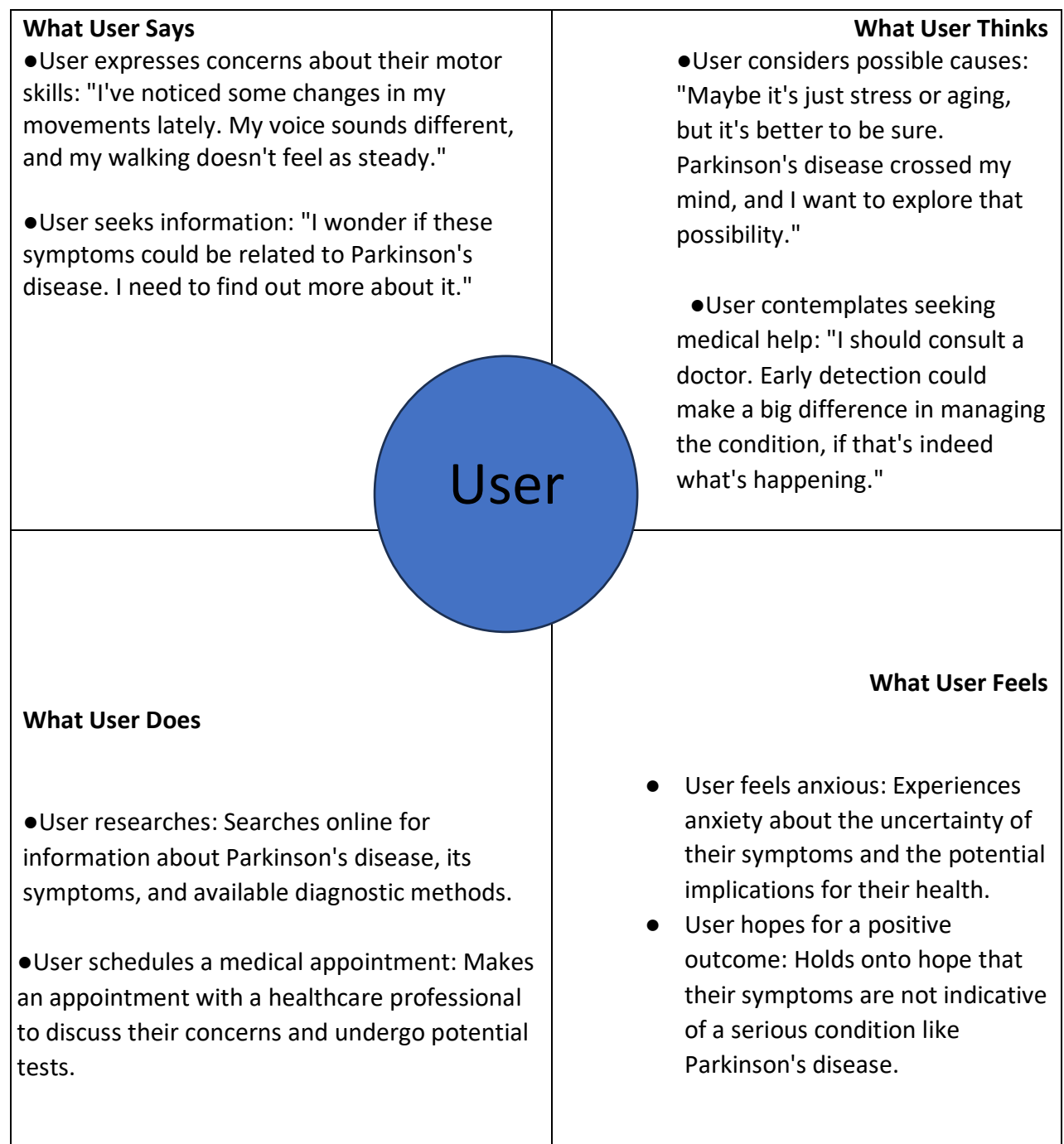
Annexure-

Selected Problem:

Early detection of Parkinson's disease using machine learning

Design Thinking – Empathy

By field Survey, asking questions, and interviews with users/clients, the team will discuss and do Empathy mapping. The team has to prepare a questionnaire for the above activity and keep records. Attach all proofs to this document.



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Problem Statement:

The user **is a** human being, **who needs** technical assistance to overcome traditional methods of living and adapt to an urban way of life **because** the latest technology has made it much easier to go about life with less human effort and stress. Yet this change is not made readily available to individuals who have yet to embrace this new shift of lifestyle.

Annexure-

Ideation

Sr. No.	Requirement	Proposed Solution
1.	Data Collection And Preprocessing :-	
	Available Solutions- - Existing Research Models	Proposed Solution- - Develop an ensemble model that combines multiple algorithms' outputs.
2.	Wearable Devices :-	
	Available Solutions- - Some wearable devices are already used to monitor movement and collect data. They can provide valuable inputs for early detection models.	Proposed Solution- - Gather a comprehensive dataset from wearable devices, voice recordings, and medical imaging sources.

Solution-

Our System will help users to manage and provide assistance in their day-to-day tasks as well as do basic functions autonomously like information gathering, making calls, surfing the web, setting alarm and reminder as well as answer queries of the users. Apart from this, our system will provide the user with a smooth transition into the urban lifestyle by guiding them through initial phases of changes and helping them throughout their lifetime.

Scope-

This solution has five modules to integrate. By considering the logic and technology engagements and its mapping with time limit and available skill sets, we are dividing this application in one year (i.e., two semesters).

1. Request, Query Processing and basic task execution
2. AI Voice Generation
3. Facial/Voice Authentication
4. Smart Home Integration
5. Integration of all modules