# **Brainstorm** & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

- 10 minutes to prepare 🔀 **1 hour** to collaborate
- **2-8 people** recommended

### Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

**5 minutes** 

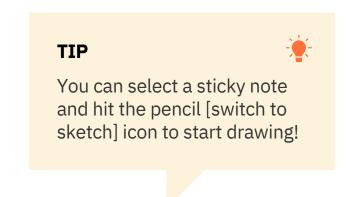
# **PROBLEM**

More than 10 million people are living with Parkinson's Disease worldwide, according to the Parkinson's Foundation. While Parkinson's cannot be cured, early detection along with proper medication can significantly improve symptoms and quality of life.

The researchers found that the drawing speed was slower and the pen pressure is lower among Parkinson's patients. One of the indications of Parkinson's is tremors and rigidity in the muscles, making it difficult to draw smooth spirals and waves. It is possible to detect Parkinson's disease using the drawings alone instead of measuring the speed and pressure of the pen on paper. Our goal is to quantify the visual appearance(using HOG method) of these drawings and then train a machine learning model to classify them. In this project, We are using, Histogram of Oriented Gradients (HOG) image descriptor along with a Random Forest classifier to automatically detect Parkinson's disease in hand-drawn images of spirals and waves.

#### **Brainstorm**

Write down any ideas that come to mind that address your problem statement. **① 10 minutes** 



Afsana Mariam

page about other conditions if its not parkinson

Info about conditions that can develop into parkingson on future

Suggest medication and doctor

Detail how to use page with video prescription. assistance

Ask for Patient details and store it for future reference

# **Group ideas**

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-

groups.

① 20 minutes

Feedback from the user

Severity of Reporting back to the user

home page with detail Details about parkinson's and can develop into users to chec about disease other similar diseases

Suggestions Food prescription. to the user

## **Prioritize**

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

20 minutes

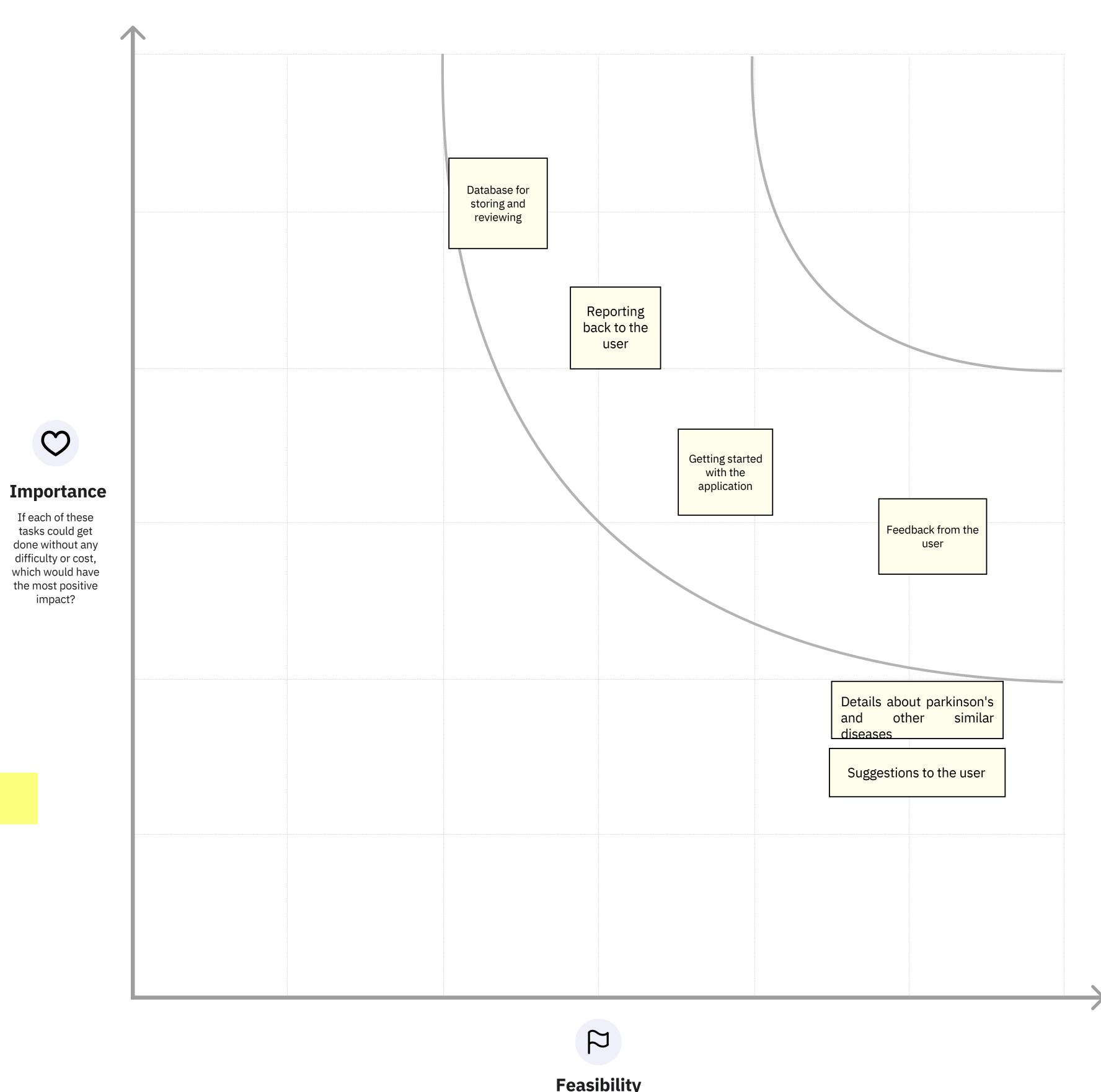
Database for

storing and

reviewing

started with

application



Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)

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