

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID51981
Project Name	Visualizing and Predicting Heart Diseases with an Interactive Dash Board
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:


Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

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.

Reference: <https://www.mural.co/templates/empathy-map-canvas>

Step-1: Team Gathering, Collaboration and Select the Problem Statement

Template



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

📄 Share template feedback

➔

Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

🕒 10 minutes

A

Team gathering
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

B

Set the goal
Think about the problem you'll be focusing on solving in the brainstorming session.

C

Learn how to use the facilitation tools
Use the Facilitation Superpowers to run a happy and productive session.

Open article

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1

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

Heart disease (HD) is a major cause of mortality in modern society. Medical diagnosis is an extremely important but complicated task that should be performed accurately and efficiently. Based on the analytics we can analyze which patients are most likely to suffer from heart disease in the near future and based on the patient details we will take decisions to cure them.

Step-2: Brainstorm, Idea Listing and Grouping

Brainstorm 2

SNEHA K S	LAKSHMAN KARTHICK S	MEENU PRIYA S S	VASANTHA GURU R
<div>Finding the optimal combination of hyperparameters</div>	<div>Increase number of training data</div>	<div>Suggesting medicines for emergency</div>	<div>To spread awareness about the heart diseases symptoms.</div>
<div>Choose the best model out of well-performing models can be simply reduced to visualizing model which offer the highest accuracy</div>	<div>Choose the best model by using all evaluation metrics like Precision, recall, F1 score</div>	<div>Predict the output with more number of visualizations</div>	<div>If the risk of heart disease is high it will suggest the doctors</div>
<div>Integrates other ML strategies such as time series, integration rules and other integration strategies.</div>	<div>Based on prediction, Suggest healthcare advices</div>	<div>Diet controlled food for the people diagnosed with heart diseases.</div>	<div>prediction based on modeling the correlations between compounded indicator factors</div>
<div>Giving physical exercise advice to the patients</div>	<div>Reduce the time complexity of doctors by handling enormous amount of data</div>	<div>Reminder for the patients to intake the medicines on time in their busy schedule.</div>	<div>A dashboard should be customizable so you can structure your analysis results in a dynamic and interactive way</div>
<div>Track whether the patients are doing physical exercises or not.</div>	<div>Avoid using figures that are not audience-specific, not measurable</div>	<div>Avoid creating complex dashboards with too many widgets, so it is easier</div>	
	<div>The system can serve as a training tool for medical students</div>		

Group ideas 3

Improvement in Machine Learning

<div>Finding the optimal combination of hyperparameters</div>	<div>Choose the best model out of well-performing models can be simply reduced to visualizing model which offer the highest accuracy</div>	<div>prediction based on modeling the correlations between compounded indicator factors</div>	<div>Increase number of training data</div>	<div>Predict the output with more number of visualizations</div>	<div>Integrates other ML strategies such as time series, integration rules and integration with other integration strategies.</div>
<div>Reduce the time complexity of doctors by handling enormous amount of data</div>	<div>Avoid using figures that are not audience-specific, not measurable</div>	<div>Choose the best model by using all evaluation metrics like Precision, recall, F1 score</div>			

Improvement in Medical Usage

<div>Giving physical exercise advice to the patients</div>	<div>Based on prediction, Suggest healthcare advices</div>	<div>If the risk of heart disease is high it will suggest the doctors</div>	<div>Track whether the patients are doing physical exercises or not.</div>	<div>Diet controlled food for the people diagnosed with heart diseases.</div>
<div>Suggesting medicines for emergency</div>	<div>Reminder for the patients to intake the medicines on time in their busy schedule.</div>			

Additional Ideas

<div>To spread awareness about the heart diseases symptoms.</div>	<div>Avoid creating complex dashboards with too many widgets, so it is easier</div>	<div>The system can serve as a training tool for medical students</div>	<div>A dashboard should be customizable so you can structure your analysis results in a dynamic and interactive way</div>
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Step-3: Idea Prioritization

Prioritize

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