


Ideation Phase

Brainstorm & Idea Prioritization Template

Date	18 October 2023
Team ID	PNT2022TMID593014
Project Name	Project - Diabetes Prediction Using Machine Learning
Maximum Marks	4 Marks

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



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

➔ 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

- Team gathering**
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.
- Set the goal**
Think about the problem you'll be focusing on solving in the brainstorming session.
- Learn how to use the facilitation tools**
Use the Facilitation Superpowers to run a happy and productive session.

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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

The issue at hand is that many people at high risk of developing diabetes aren't getting the early detection and preventive measures they need. This affects various communities and can lead to health complications, increased healthcare costs, and a lower quality of life. It's urgent to address this problem promptly to improve the well-being of individuals at risk and the overall health of communities.

Key rules of brainstorming

To run an smooth and productive session

- 🗣️ Stay in topic.
- 💡 Encourage wild ideas.
- 👂 Defer judgment.
- 👂 Listen to others.
- 🗣️ Go for volume.
- 👁️ If possible, be visual.

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm
Write down any ideas that come to mind that address your problem statement.

10 minutes

TIP
You can select a sticky note and fit the text to suit to better fit on to start drawing

Tasneem

Prediabetes Screening Programs

finger prick test

Oral Glucose Tolerance Test

Non-invasive diabetes screening devices like breathalyzer

Genetic testing to identify specific genetic markers associated with diabetes risk.

Launch community-wide health campaigns to raise awareness about diabetes risk factors

generate predictive model using ML, that provide an estimate of their likelihood to develop diabetes in the future.

Prasuna

Initiate campaigns to increase knowledge about factors that contribute to the risk of diabetes

Utilize ML techniques to anticipate the development of diabetes in individuals by examining their health records

Personalized Nutrigenomics

Genetic Testing

Clinical Risk Scores

Metabolic Syndrome Assessment

Prediabetes Screening Programs

Finger prick test

Shreya

Screening programs for diabetes risk assessment

finger prick test using a home testing kit.

Incentivize Preventive Health Measures

to develop a predictive model that can accurately identify individuals who are at high risk of developing diabetes based on their health records

treatment plan for individuals with diabetes based on their personal health data

Using genetic tests can help identify certain genetic markers that might indicate a higher risk of developing diabetes

Launch health campaigns to raise awareness about diabetes risk factors

Harini

Personalized diabetes prevention plans

genetic counselling chatbots

Integrate diabetes monitoring capabilities into wearable device

diabetes prevention programs to people who live in remote areas, or who have difficulty accessing in-person care

Social media campaigns to raise awareness of diabetes risk factors

use ML algorithms to predict the onset of diabetes in individuals based on their health records and other relevant factors

Organize community-based health fairs or screening events in partnership with local healthcare providers

3

Group ideas
Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

20 minutes

TIP
Assign sticky notes to sticky notes to make it easier to find, remove, organize, and rearrange "cluster" ideas as they evolve with your team.

Genetic Testing

Finger prick test

Prediabetes Screening Programs

develop a predictive model using ML, that can accurately identify individuals who are at high risk of developing diabetes

Launch health campaigns to raise awareness about diabetes risk factors

Step-3: Idea Prioritization

4

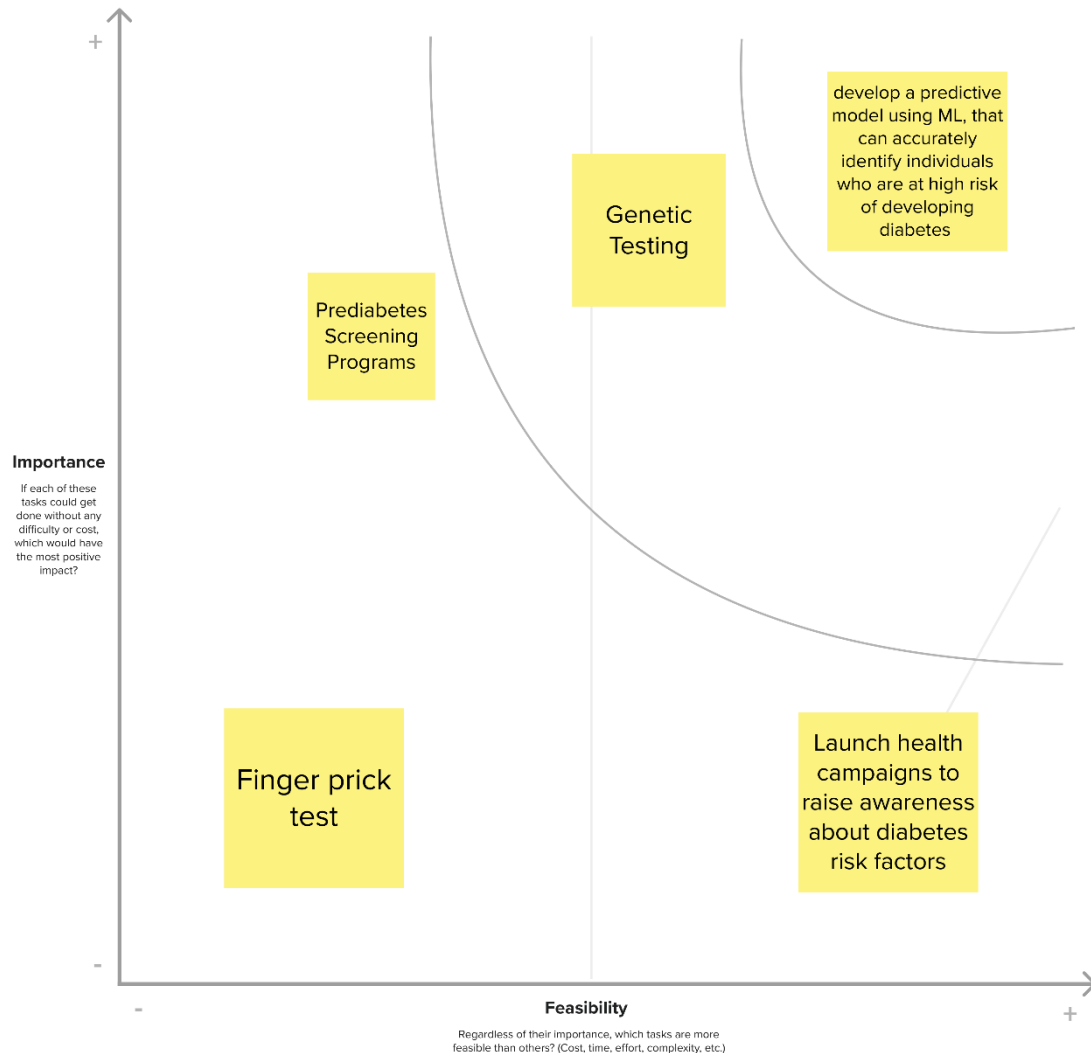
Prioritize

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

TIP

Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the **H** key on the keyboard.



link:

<https://app.mural.co/t/harini0988/m/harini0988/1697548117042/068f28a954c43ea4de494b766f814c20021d6eb7?sender=u89ab6242d662d20b873b1458>