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

Step-2: Brainstorm, Idea Listing and Grouping

② Brainstorm

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

⏱ 10 minutes

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 and break it up into smaller sub-groups.

⏱ 20 minutes

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
- Launch health campaigns to raise awareness about diabetes risk factors
- Using genetic tests can help identify certain genetic markers that might indicate a higher risk of developing diabetes

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
- Organize community-based health fairs or screening events in partnership with local healthcare providers
- use ML algorithms to predict the onset of diabetes in individuals based on their health records and other relevant factors

(Group ideas cluster)
- 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
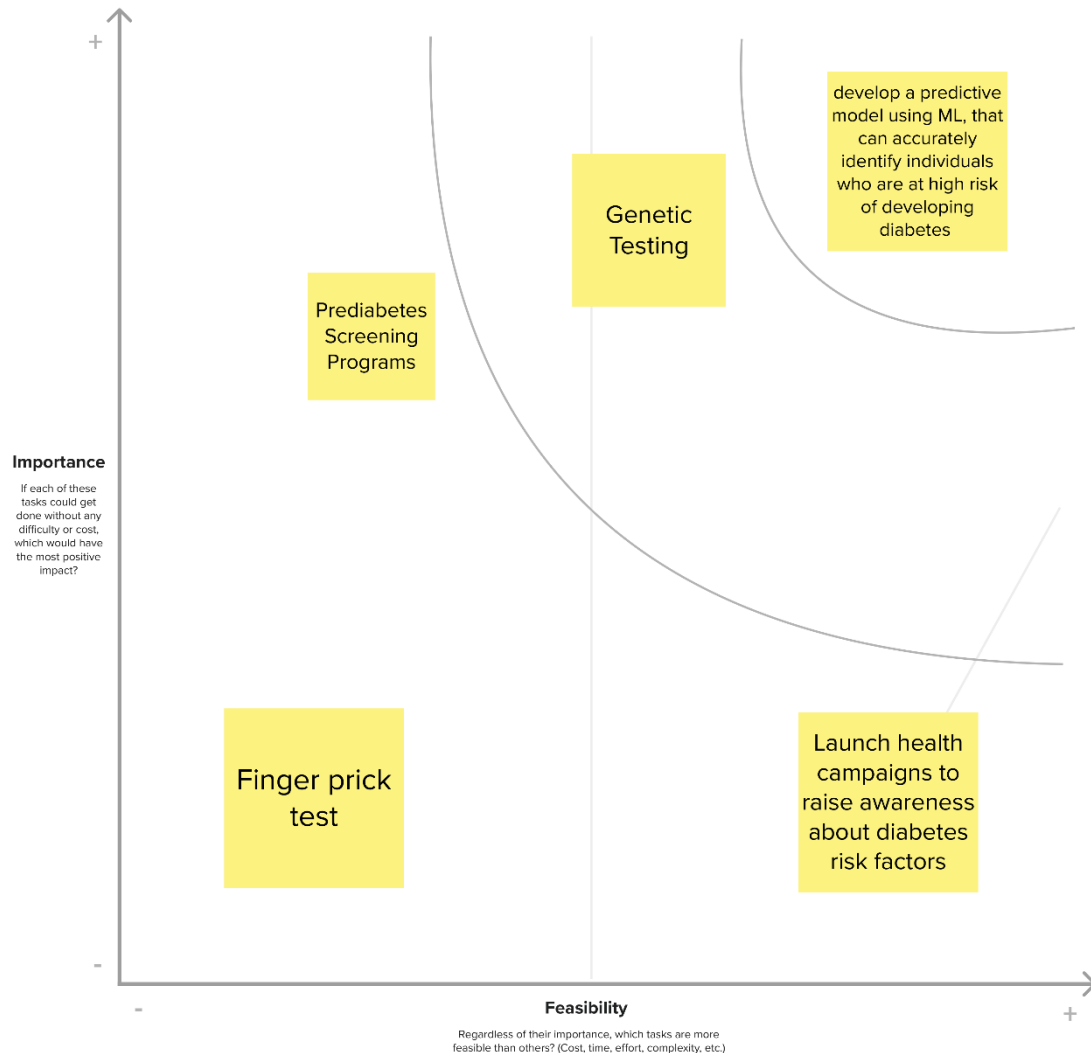
Step-3: Idea Prioritization

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

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

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

Genetic Testing

Prediabetes Screening Programs

Finger prick test

Launch health campaigns to raise awareness about diabetes risk factors

Feasibility

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

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