

Ideation Phase


Brainstorm & Idea Prioritization Template

Date	30 September 2023
Team ID	Team-592710
Project Name	Alzheimer Disease Prediction
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.

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

- 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.


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1 Define your problem statement

"There is a pressing need to improve the accuracy and timeliness of Alzheimer's disease prediction, enabling early intervention and personalized care plans, given the growing prevalence of the condition and its severe impact on individuals and their families."

PROBLEM

How might we [your problem statement]?



Key rules of brainstorming

To run a 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

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Brainstorm

1. Advanced Screening Tools
2. Big Data Analysis
3. Machine Learning Models
4. Telemedicine and Remote Monitoring
5. Genetic Counseling

Rohan

Establish community-based screening programs that provide convenient access to Alzheimer's risk assessments and education on early signs and prevention.

Create personalized risk profiles for individuals based on a combination of genetic, lifestyle, and health data, allowing for proactive measures and interventions.

Develop wearable devices equipped with sensors to continuously monitor gait, sleep patterns, and other relevant data, which can provide early signs of cognitive decline.

Nikitha

Offer genetic counseling and testing services to individuals with a family history of Alzheimer's disease to assess their genetic risk and guide their healthcare decisions.

Develop public awareness campaigns and educational programs to inform individuals and healthcare providers about the importance of early detection and available resources.

Implement telemedicine platforms that enable remote cognitive assessments, making it more accessible for individuals, especially in remote areas.

Akarsha

Encourage participation in clinical trials for emerging Alzheimer's disease therapies, which can also aid in early detection through monitoring.

Promote collaboration between healthcare providers, researchers, and institutions to share data and insights, enhancing the accuracy of predictive models.

Implement telemedicine platforms that enable remote cognitive assessments, making it more accessible for individuals, especially in remote areas.

Sohith

Advocate for policy changes that prioritize Alzheimer's disease prevention, early detection, and intervention in healthcare systems.

Provide support programs for caregivers of elderly individuals, as they often face the first to notice cognitive changes and play a crucial role in early detection.

Support long-term observational studies that track the cognitive and health status of individuals at risk over time, contributing valuable data for early detection research.

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Group ideas

- Cluster 1: Data Collection and Analysis
- Cluster 2: AI and Machine Learning
- Cluster 3: Clinical Validation
- Cluster 4: Technology Development
- Cluster 5: Data Security and Privacy
- Cluster 6: Evaluation and Feedback

CLUSTER-1

Collect and compile a comprehensive dataset of patient information.

Consider data sources such as medical records, genetic data, and cognitive assessments.

CLUSTER-2

Create machine learning models to predict Alzheimer's risk.

CLUSTER-4

Design mobile apps and wearable devices for continuous monitoring.

Implement secure and user-friendly platforms for data collection and analysis.

CLUSTER-5

Focus on data encryption and secure storage of patient information.

Conduct pilot studies to validate the effectiveness of the proposed interventions.

3

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- Cluster 6: Evaluation and Feedback

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CLUSTER-1

Collect and compile a comprehensive dataset of patient information.

Consider data sources such as medical records, genetic data, and cognitive assessments.

CLUSTER-2

Create machine learning models to predict Alzheimer's risk.

Explore deep learning techniques for image analysis and natural language processing for speech data.

CLUSTER-3

Collaborate with healthcare professionals for clinical trials and data validation.

Ensure that predictive models align with clinical reality.

CLUSTER-4

Design mobile apps and wearable devices for continuous monitoring.

Implement secure and user-friendly platforms for data collection and analysis.

CLUSTER-5

Focus on data encryption and secure storage of patient information.

Collaborate with cybersecurity experts to protect sensitive data.

CLUSTER-6

Continuously evaluate the effectiveness of your prediction methods.

Gather feedback from all stakeholders to make improvements.

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Prioritize

1. Clinical Validation
2. Technology Development

Importance

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

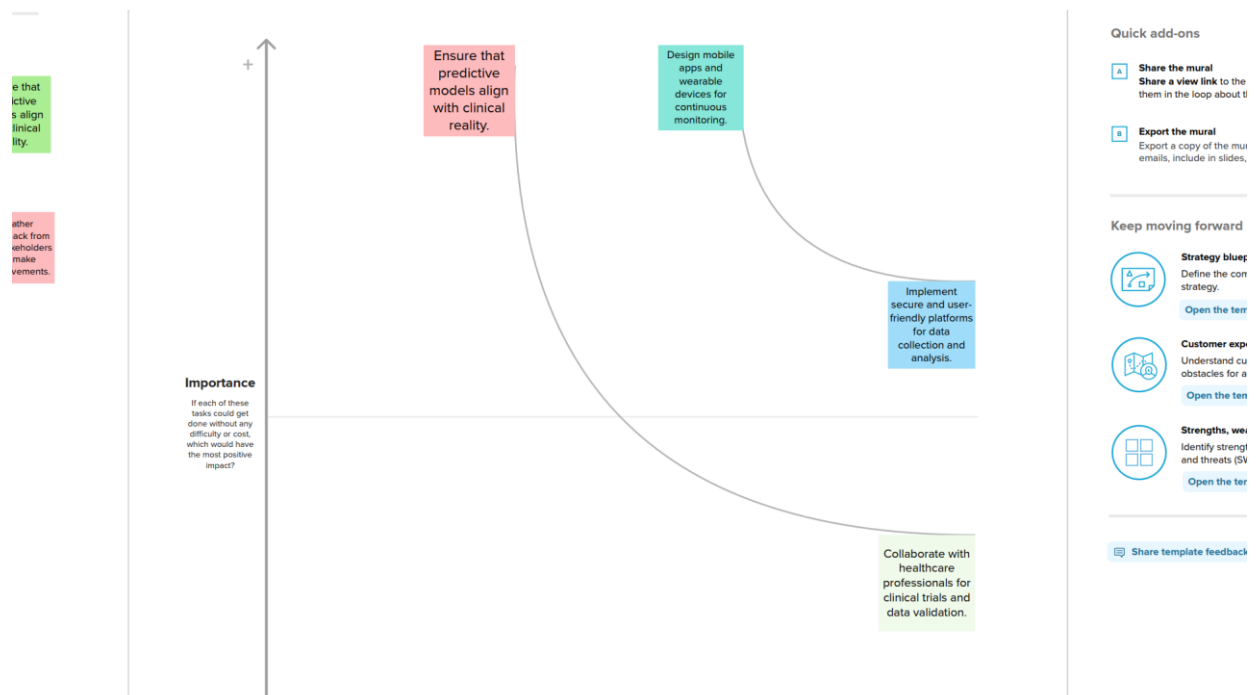
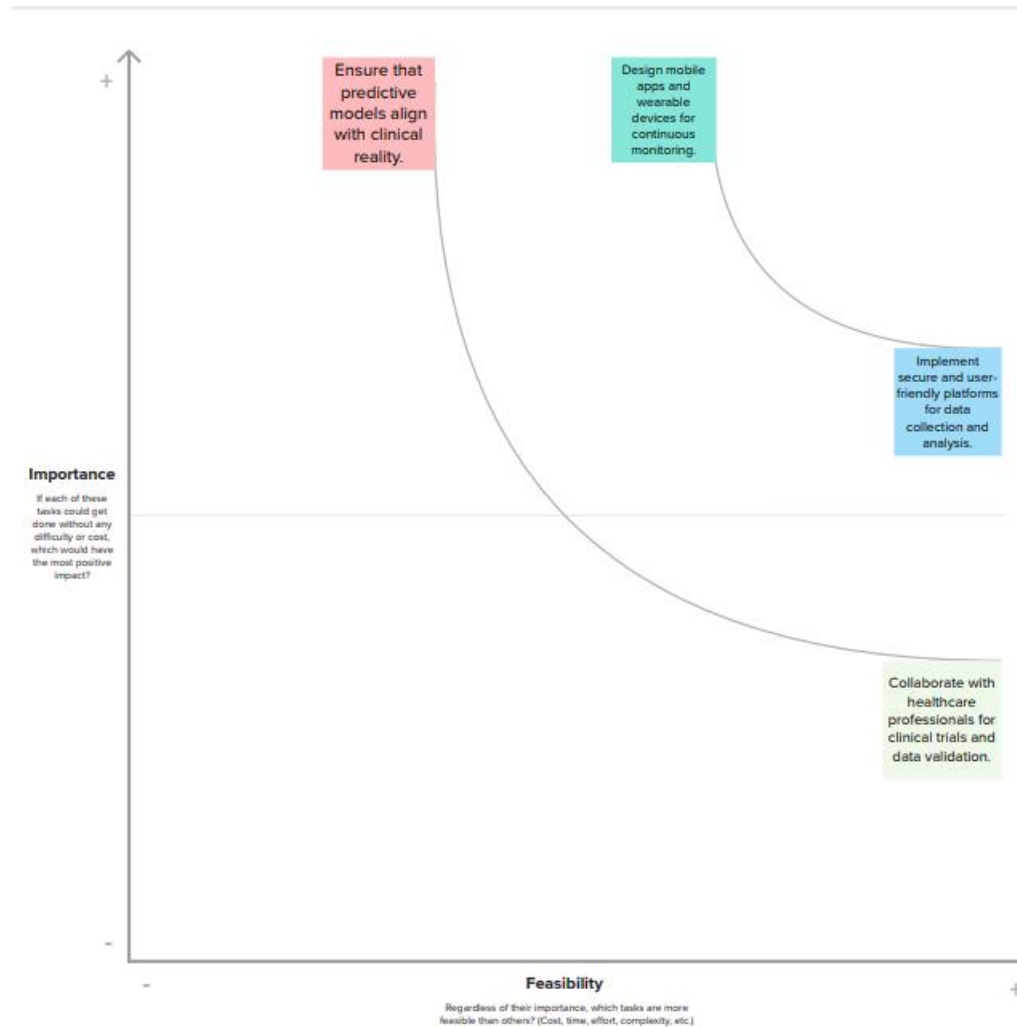
Step-3: Idea Prioritization

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Prioritize

1. Clinical Validation

2. Technology Development



Quick add-ons

- A Share the mural**
Share a view link to the mural in the loop about it
- B Export the mural**
Export a copy of the mural, emails, include in slides,

Keep moving forward

- Strategy blueprint**
Define the core strategy.
[Open the template](#)
- Customer experience**
Understand customer obstacles for a product.
[Open the template](#)
- Strengths, weaknesses, opportunities, threats**
Identify strengths and threats (SWOT).
[Open the template](#)

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