

Ideation Phase

Brainstorm & Idea Prioritization Template


Date	19 September 2022
Team ID	PNT2022TMID44958
Project Name	AI-based localization and classification of skin disease with erythema
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

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.

- 40 minutes to prepare
- 1 hour to collaborate
- 2-8 people recommended

[Share template worksheet](#)

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 videos](#)

- Learn gathering**
Gather any relevant participants in the session and send an invite. Share relevant information in pre-work sheets.
- 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 Runners to run a focus and prioritization session.

[Open article](#)

1 Define your problem statement

More than a billion people are suffering from skin diseases. More than 125 million people suffering from Psoriasis also skin cancer rate is rapidly increasing over the last few decades especially in Australia to most devastating skin cancer. If skin diseases are not treated at an earlier stage, then it may lead to complications in the body including spreading of the infection from one individual to the other. The skin diseases can be prevented by investigating the infected region at an early stage. The characteristics of the skin images is diversified so that it is a challenging job to devise an efficient and robust algorithm for automatic detection of skin disease and its severity. Skin tone and skin colour play an important role in skin disease detection. Colour and coarseness of skin are visually different. Automatic processing of such images for skin analysis requires quantitative discriminator to differentiate the diseases.

To overcome the above problem we are building a model which is used for the prevention and early detection of skin cancer, psoriasis. Basically, skin disease diagnosis depends on the different characteristics like colour, shape, texture etc. Here the person can capture the images of skin and then the image will be sent to the project model. The model analyzes the image and detect whether the person is having skin disease or not.

Project

AI-based Localization of skin diseases with myBrain

Key rules of brainstorming

Run an smooth and productive session

- Stay on topic.
- Encourage wild ideas.
- Defer judgement.
- Use lots of sketches.
- Go for volume.
- If possible, go visual.



Next steps

Remember! The ideas generated in this template are not intended to be used as a final solution.

[Open article](#)

Step-2: Brainstorm, Idea Listing and Grouping

Brainstorm

What ideas have you come up with that address your problem statement?

Workflow

ESG/ENV

- Carbon footprint reduction
- Renewable energy sources
- Waste management and recycling
- Water conservation and usage

MATH/STAT

- Statistical analysis of data
- Machine learning models
- Optimization algorithms
- Simulation and modeling

HEALTH

- Diagnostic tools
- Personalized medicine
- Health monitoring devices
- Medical research and discovery

MANUFACTURING

- Automation and robotics
- Quality control systems
- Supply chain optimization
- Production efficiency

Group Ideas

Take time to group your ideas into clusters or related categories. You can use a mind map or a flowchart to organize your ideas. If you have a lot of ideas, you can use a tool like Miro or a whiteboard to visualize them.

Workflow

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

