

Ideation Phase

Brainstorm & Idea Prioritization Template


Date	20 November 2022
Team ID	PNT2022TMID052418
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.

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

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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](#)

1 Define your problem statement

Now a day's 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 Melanoma is most diversifying 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 characteristic 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 trained model. The model analyses the image and detect whether the person is having skin disease or not.

PROBLEM


AI Based Localization of skin diseases with erythema

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.



Need some inspiration?

See a featured version of this template to kickstart your work.

[Open example](#)

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

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

🕒 10 minutes

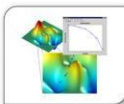


ISHANI

- Capture high-quality image for Recognition
- Implement a faster model
- Offer a friendly User Interface to the User
- To compare the Affected skin image with the unaffected skin image

MATHUMITA

- To collect Dataset to train the Model
- Deep Learning is also used to detect the Disease
- Split the Dataset into training, testing and validation
- Can store the Dataset in Cloud



HEMATHI

- Annotate the images
- Use an image processing based method to detect skin diseases
- To build a robust Algorithm
- Identify the most commonly spread skin disease

MADHUMITHA

- Create a Personalized UI
- Train a Detection Model
- Using Image Processing to identify the Skin Diseases
- Identification of disease through image processing

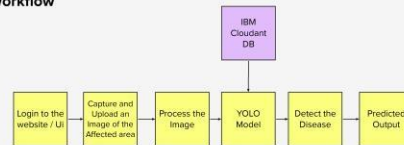
3

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

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

