

Ideation Phase

Brainstorm & Idea Prioritization Template

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| Date | 19 September 2022 |
| Team ID | Team-592761 |
| Project Name | Detection of Covid-19 from chest X-rays using Deep learning. |
| 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

1

Define your problem statement
Develop a rapid and reliable diagnostic tool for timely COVID-19 detection from chest X-ray images, addressing the limitations of current testing methods.
 5 minutes

PROBLEM

How might we develop a reliable diagnostic tool for timely COVID-19 detection from chest X-ray images?

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

2 Brainstorm

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

🕒 10 minutes

Harish

Implement a cloud-based platform for rapid and remote analysis of chest X-rays to aid in COVID-19 detection.

Design a web-based tool that educates healthcare professionals on interpreting X-ray images for COVID-19 diagnosis.

Create a system for continuous monitoring and tracking of COVID-19 trends through automated analysis of chest X-rays.

Kantshika

Establish a global network of healthcare units for data sharing and collaborative COVID-19 detection using X-ray images.

Develop a low-cost, portable X-ray device for resource-limited regions to enhance COVID-19 diagnosis.

Develop a mobile app that allows users to capture and upload X-ray images for automated COVID-19 diagnosis.

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

Technological Innovation

Implement a cloud-based platform for rapid and remote analysis of chest X-rays to aid in COVID-19 detection.

Develop a low-cost, portable X-ray device for resource-limited regions to enhance COVID-19 diagnosis.

User and Healthcare Professional Engagement

Develop a mobile app that allows users to capture and upload X-ray images for automated COVID-19 diagnosis.

Design a web-based tool that educates healthcare professionals on interpreting X-ray images for COVID-19 diagnosis.

Collaboration and Information Sharing

Establish a global network of healthcare units for data sharing and collaborative COVID-19 detection using X-ray images.

Create a system for continuous monitoring and tracking of COVID-19 trends through automated analysis of chest X-rays.

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?

Feasibility

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