

Ideation Phase


Empathize & Discover

Date	18 October 2023
Team ID	Team-592616
Project Name	Detecting Covid-19 from Chest X-Rays using Deep Learning Techniques
Maximum Marks	4 Marks

Empathy Map Canvas:


An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviours and attitudes. It is a useful tool to help teams better understand their users. Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.

Canvas:



Empathy map canvas

Detecting Covid-19 using Chest X-Rays with Deep Learning Techniques

Originally created by Dave Gray at 

Type your paragraph...

Detecting Covid-19 using Chest X-Rays with Deep Learning Techniques

Detecting COVID-19 from chest X-rays can be expedited by leveraging deep learning techniques, which reduces the burden on healthcare professionals. Automated analysis with radiology reports accelerates the diagnosis process and provides quicker results. The primary objective of this tool is to assist healthcare professionals during the pandemic and also to improve the overall health sector of the nation

WHO are we empathizing with?
Who is the person we want to understand?
What is the situation they are in?
What is their role in the situation?

What do they HEAR?
What are they hearing others say?
What are they hearing from friends?
What are they hearing from colleagues?
What are they hearing second-hand?

What do they DO?
What do they do today?
What behavior have we observed?
What can we imagine them doing?

GOAL

What do they THINK and FEEL?

PAINS
What are their fears, frustrations, and anxieties?

GAINS
What are their wants, needs, hopes, and dreams?

What other thoughts and feelings might influence their behavior?

What do they need to DO?
What do they need to do differently?
What job(s) do they want or need to get done?
What decision(s) do they need to make?

What do they SEE?
What do they see in the marketplace?
What do they see in their immediate environment?
What do they see others saying and doing?
What are they watching and reading?

What do they SAY?
What have we heard them say?
What can we imagine them saying?

WHO are we empathizing with?
Health Care professionals who are involved in identifying Covid patients

What do they HEAR?
Complaints from the consumers if any potential mistakes by the tool

What do they DO?
Feedback on performance of the tool like time taken for analysis and accuracy

GOAL

What do they THINK and FEEL?

PAINS
The tool accuracy may not be 100% as it is a deep learning model and it may not be able to detect all the cases

GAINS
Improved and faster diagnosis of Covid

What other thoughts and feelings might influence their behavior?

What do they need to DO?
Patients, if diagnosed earlier than they medical care could help them recover soon

What do they SEE?
Chest X-ray images of patients with potential COVID-19 symptoms

What do they SAY?
Any potential wrong prediction by the tool which led to patient's life