

Ideation Phase

Brainstorm & Idea Prioritization Template

| | |
|---------------|--------------------------------|
| Date | 06 May 2023 |
| Team ID | NM2023TMID14700 |
| Project Name | Drowsiness and alerting system |
| 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.

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.

Reference :

<https://app.mural.co/t/naanmudhalvan9410/m/naanmudhalvan9410/1683364613280/eadb6042051BQZKqdp2CV3QV5nUESqSg1ygegLmqRygj07?sender=udd7ea83d4c781853a30e0252>

Step-1: Team Gathering, Collaboration and Select the Problem Statement

The screenshot displays a Mural brainstorming session titled "brainstorming NM2023TMID14700". The interface includes a sidebar with icons for various tools, a central workspace with a "Brainstorm & idea prioritization" template, and a right-hand panel with a "Define your problem statement" section. The workspace contains a diagram titled "Key rules of brainstorming" and a "Person 1" section with a flowchart. The right-hand panel includes a "Share" button and a "Show all" button. The bottom of the screen shows a Windows taskbar with various application icons and a system clock indicating 3:59 PM on 5/6/2023.

Step-2: Brainstorm, Idea Listing and Grouping

The screenshot displays the Mural brainstorming tool interface. At the top, a red banner indicates "You have 1 mural remaining. Upgrade your free plan for unlimited murals." with an "Upgrade" button. The main workspace is titled "brainstorming NM2023TMID14700" and features a toolbar with various icons for editing and collaboration. The workspace is divided into two main sections: "Brainstorm" and "Prioritize".

Brainstorm Section:

- Brainstorm** (10 minutes): A section for writing down ideas that come to mind that address your problem statement.
- Prioritize** (20 minutes): A section for prioritizing ideas based on their importance and feasibility.

Sticky Notes and Diagrams:

- Brainstorm Notes:**
 - IOT module sends a warning message
 - driver's fatigue is detected
 - Face landmark algorithm is also used as a proper way to eye detection
 - cameras, eye tracking sensors and other hardware to monitor visual cues
 - facial expressions is recognised.
 - 2D Convolution Neural Network (CNN)
 - Raspberry Pi is used in monitoring system.
- Prioritize Notes:**
 - help of a voice speaking is used
 - 2D Convolution Neural Network (CNN)
 - Raspberry Pi is used in monitoring system.

Diagram:

- A diagram showing a car with a blue box highlighting the driver's area, indicating the focus of the monitoring system.

Bottom Bar:

- Files: Brainstorming- Id....docx, Empathy Map Can....pdf
- Buttons: Show all, X
- System Tray: 4:00 PM, 5/6/2023

brainstorming NM2023TMID14700

You have 1 mural remaining. Upgrade your free plan for unlimited murals. Upgrade

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

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

Person 1

- Driver drowsiness detection systems
- cameras, eye tracking sensors and other hardware to monitor visual cues
- drowsiness can be detected through yawning frequency

Person 2

- it uses eye tracking, frequency, yawning, gaze movement, head movement
- facial expressions is recognised
- Face landmark algorithm is also used as a proper way to eye detection

Person 3

- driver's fatigue is detected
- IOT module sends a warning message
- Impact of collision and location information

Person 4

- help of a voice speaking is used
- 2D Convolution Neural Network (CNN)

IOT module sends a warning message

driver's fatigue is detected

Key rules of brainstorming

- Stay in focus
- Encourage wild ideas
- Defer judgement
- Listen to others
- Go for volume
- If possible, be visual

Brainstorming- Id....docx

Empathy Map Can....pdf

Show all

3:58 PM 5/6/2023

Step-3: Idea Prioritization

brainstorming NM2023TMID14700

You have 1 mural remaining. Upgrade your free plan for unlimited murals. Upgrade

Prioritize

After you collaborate

Quick add-ons

- Share the mural
- Export the mural

Keep moving forward

- Strategy Mapping
- Customer experience journey map
- Strengths, weaknesses, opportunities & threats

Impact of collision and location information

help of a voice speaking is used

2D Convolution Neural Network (CNN)

Raspberry Pi is used in monitoring system.

cameras, eye tracking sensors and other hardware to monitor visual cues

facial expressions is recognised.

drowsiness can be detected through yawning frequency

it uses eye-blinking frequency, eye-gaze movement, head movement

Brainstorming- Id....docx

Empathy Map Can....pdf

Show all

4:02 PM 5/6/2023