Ideation Phase
Brainstorm & Idea Prioritization Template

Date	21 October 2023
Team ID	Team-593479
Project Name	Malware Detection and Classification
Maximum Marks	4 Marks

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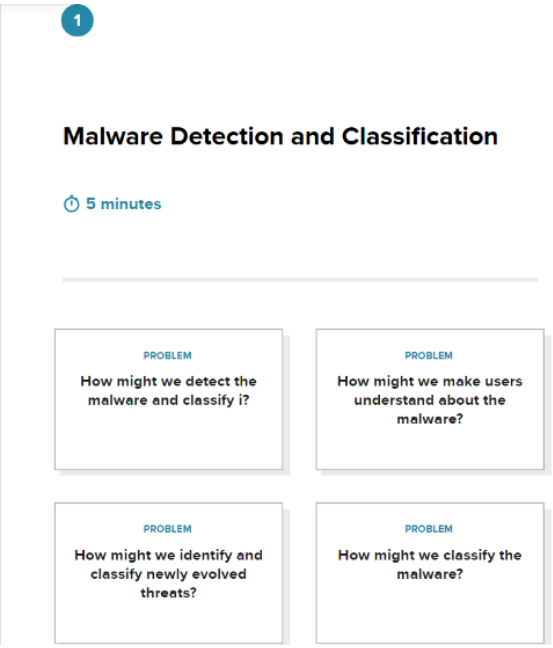
Brainstorm & Idea Prioritization Template:

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.

Brainstorming for the topic of **malware detection and classification** is a dynamic exploration into the evolving world of cybersecurity threats. With the persistent growth in malware sophistication, our endeavour is to devise innovative strategies and technologies for recognizing and categorizing these threats. Our focus on robust detection methods and effective classification models seeks to enhance digital security for both individuals and organizations. By forging collaborative partnerships, staying abreast of industry standards, and adhering to ethical considerations, we aim to contribute to the collective arsenal against the ever-adaptive landscape of malicious software.

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

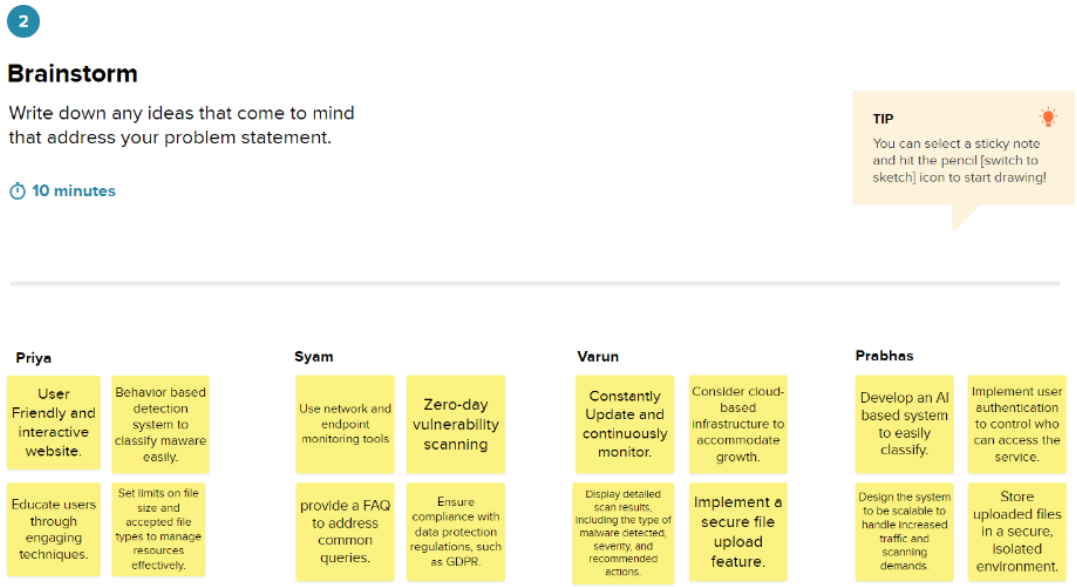


In this brainstorming phase, we have identified the possible problems that might be difficult to tackle.

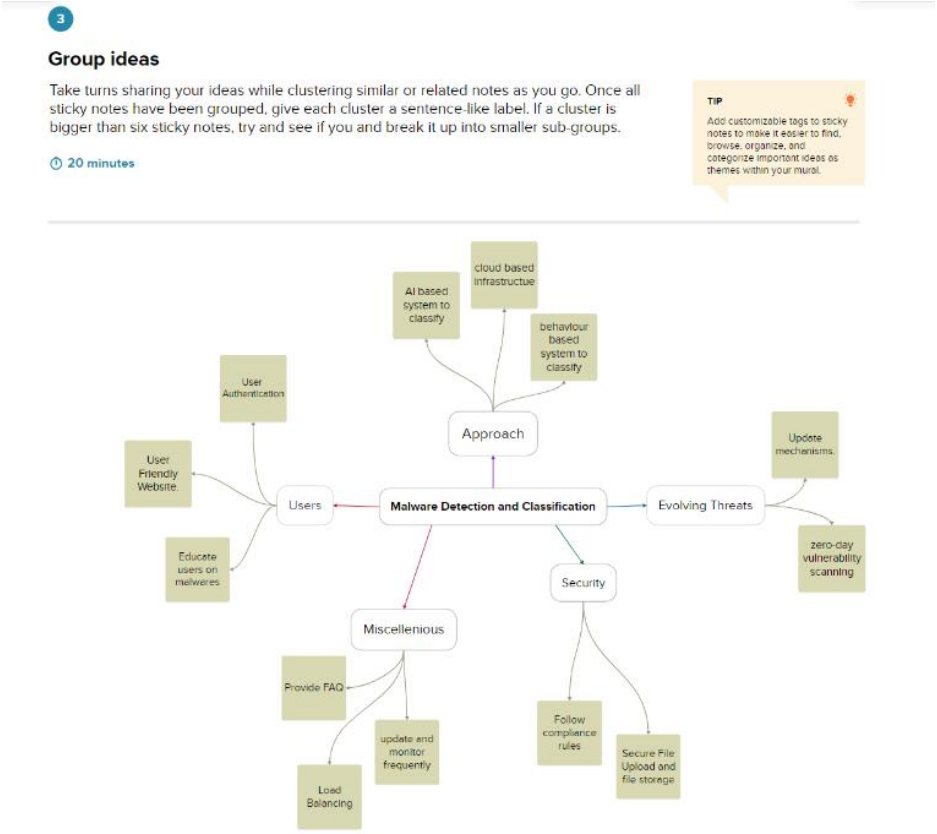
We have ended up with the following problem statements

1. **How might we detect the malware?**
2. **How might we make users understand about the malware?**
3. **How might we identify and classify newly evolved threats?**
4. **How might we classify the malware?**

Step-2: Brainstorm, Idea Listing and Grouping



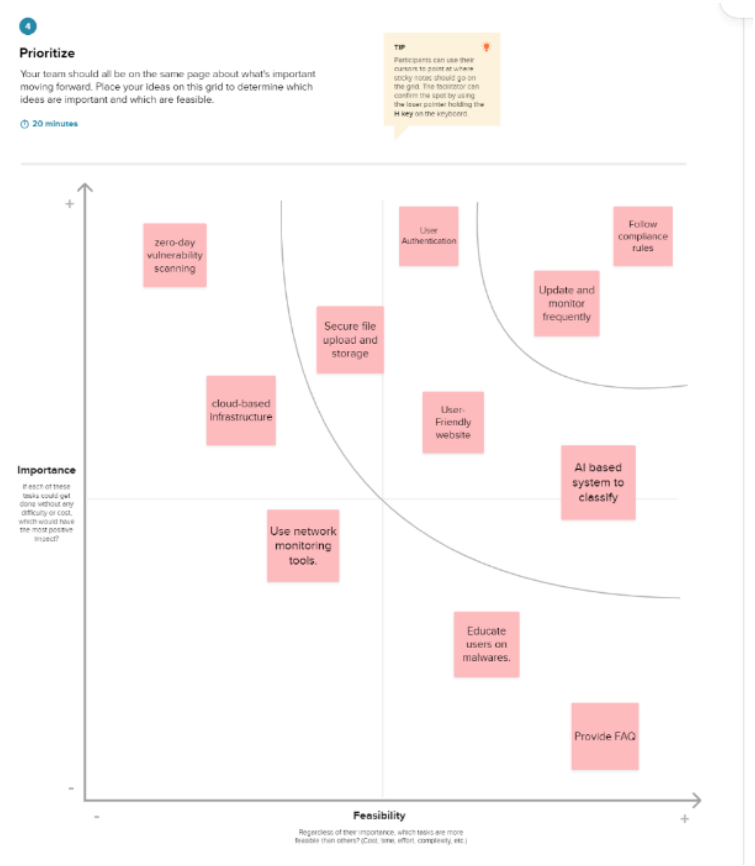
In this phase of brainstorming, each of us came up with best possible solutions to the above-mentioned problem statements. Listing these solutions will help us breakdown the problem statement and understand them in a better way.



A mind map helped us categorize the things that we need to work on and how to approach the problem statement in a better way.

Through this mind map our ideas got clear and paved a way to categorize related solutions.

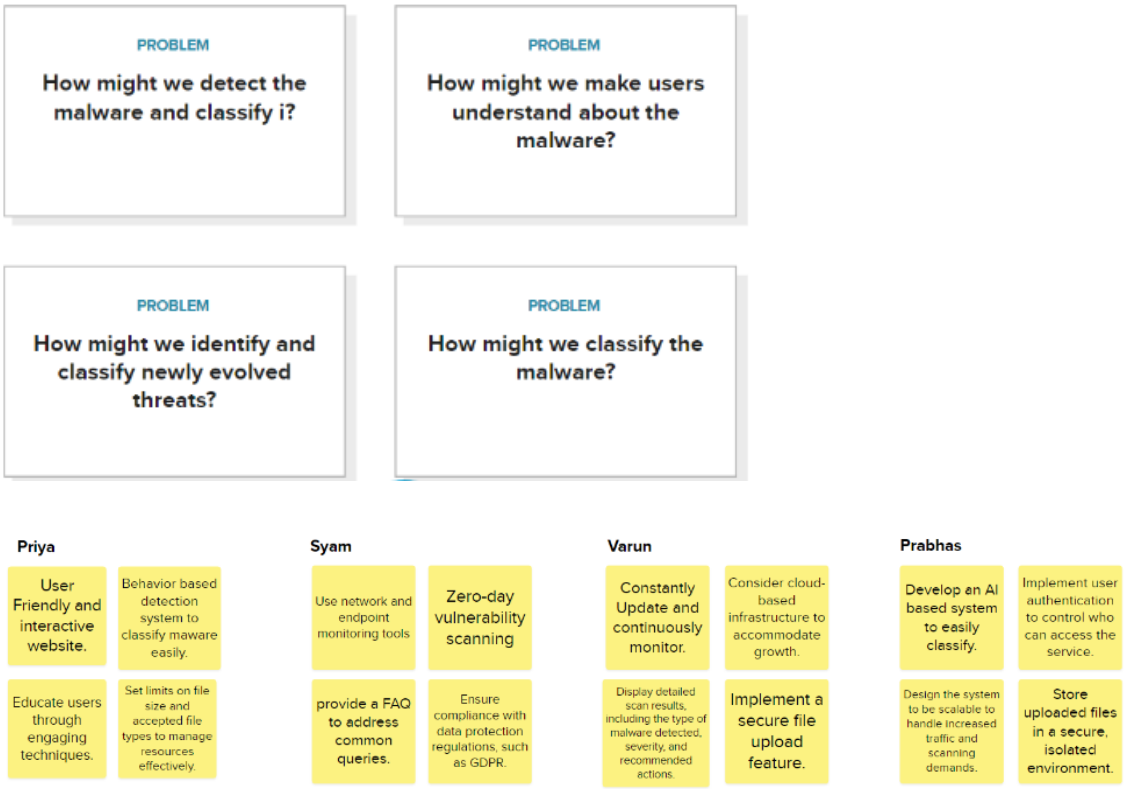
Step-3: Idea Prioritization

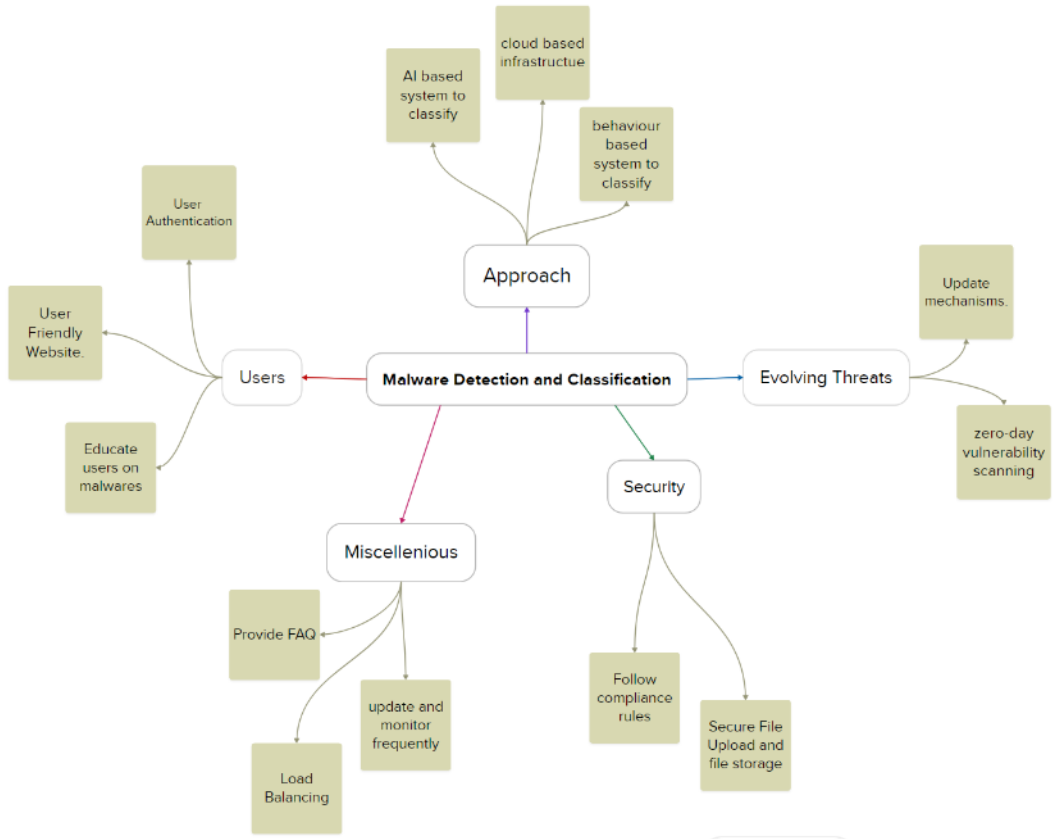


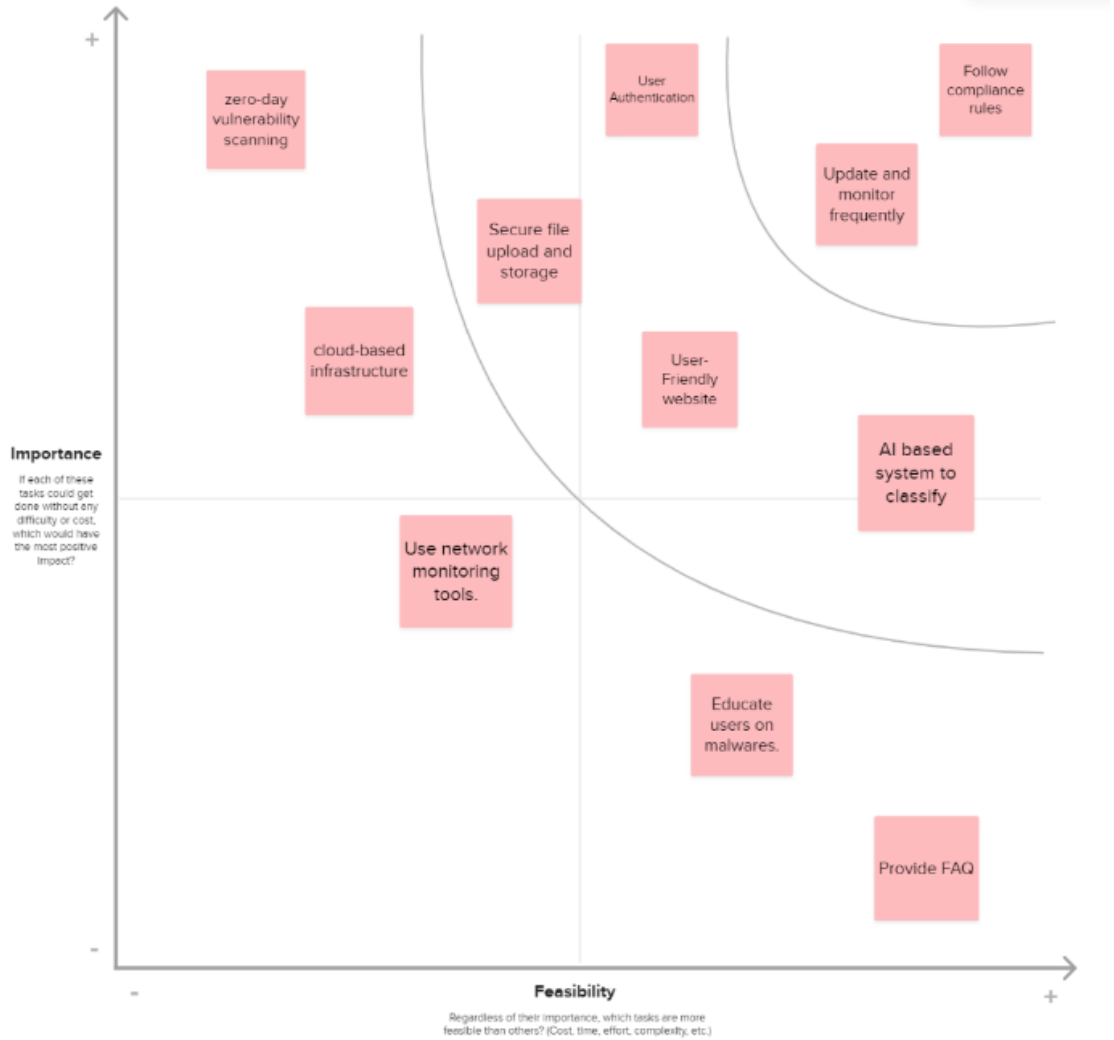
Prioritizing the attained solutions will help us work on the solutions according to their importance and feasibility. This helps us attain the goal and meet the importance of the solution at the same time.

Conclusion:

In conclusion, our brainstorming session on malware detection and classification has illuminated the complexity and urgency of the cybersecurity challenge we face. As we delve into this dynamic landscape, the task of identifying and categorizing malware becomes increasingly vital. Our research objectives, collaborative ethos, and commitment to ethical and privacy considerations will guide us as we navigate this ever-evolving terrain. With innovation and shared expertise, we are poised to make significant strides in bolstering digital security and countering the relentless tide of malware threats.




Malware Detection and Classification
Approach
AI based system to classify
cloud based infrastructue
behaviour based system to classify
Users
User Authentication
User Friendly Website.
Educate users on malwares
Evolving Threats
Update mechanisms.
zero-day vulnerability scanning
Security
Follow compliance rules
Secure File Upload and file storage
Miscellenious
Provide FAQ
update and monitor frequently
Load Balancing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Importance
If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?
zero-day vulnerability scanning
User Authentication
Follow compliance rules
Update and monitor frequently
Secure file upload and storage
cloud-based infrastructure
User-Friendly website
AI based system to classify
Use network monitoring tools.
Educate users on malwares.
Provide FAQ
-
+
Feasibility
Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)

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

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

Team gathering
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

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 Superpowers to run a happy and productive session.

Open article

Malware Detection and Classification

5 minutes

How might we detect the malware and classify it?

How might we make users understand about the malware?

How might we identify and classify newly evolved threats?

How might we classify the malware?

Key rules of brainstorming

To run an smooth and productive session

- Stay in topic.
- Encourage wild ideas.
- Defer judgment.
- Listen to others.
- Go for volume.
- If possible, be visual.

Brainstorm

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

10 minutes

Pros

Cons

Value

Problem

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 and break it up into smaller sub-groups.

20 minutes

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

Need some inspiration?
See a finished version of this template to kickstart your work.

Open example