

Ideation Phase


Brainstorm & Idea Prioritization Template

Date of Submission	18-10-2023
Team ID	Team-591212
Project Name	Vande Bharat Express: Pioneering India's High-Speed Rail Journey
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



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

2 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.

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1 Define your problem statement

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

⌚ 5 minutes

PROBLEM STATEMENTS

- How might we improve the train's energy efficiency to reduce operational costs and environmental impact?
- How might we make Vande Bharat Express more accessible and user-friendly for passengers with disabilities?
- How might we implement eco-friendly waste management solutions to reduce environmental impact?
- How might we enhance passenger comfort and satisfaction during extended train rides?
- How might we manage passenger loads efficiently during high-demand periods to ensure a comfortable experience?
- How might we optimize maintenance schedules and processes to minimize disruptions and delays?

Step-2: Brainstorm, Idea Listing, and Grouping

2

Brainstorm

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

10 minutes

Subash

- Incorporate lightweight materials in train construction to reduce energy consumption.
- Provide tactile signage and audio announcements for visually impaired passengers.
- Implement recycling bins throughout the train to encourage passengers to separate waste.
- Introduce premium seating options with more legroom and adjustable features.
- Implement dynamic pricing to encourage passengers to travel during off-peak hours.
- Implement predictive maintenance using sensors and data analytics to address issues before they lead to disruptions.

Abhiram

- Utilize AI algorithms to optimize energy usage throughout the journey based on terrain and passenger load.
- Develop a mobile app that assists passengers with disabilities in navigating the train and accessing services.
- Partner with recycling companies to process onboard waste into reusable materials.
- Design dedicated relaxation zones with reclining seats or sleeping pods for passengers on overnight journeys.
- Implement a loyalty program that rewards frequent travelers with priority access during busy periods.
- Establish backup train sets to substitute during maintenance periods, ensuring service continuity.

Samanvitha

- Implement regenerative braking systems to capture and reuse energy during braking.
- Retrofit the train with ramps and accessible restrooms for wheelchair users.
- Use onboard composting systems to reduce organic waste and environmental impact.
- Introduce reservation systems to allocate seats and manage passenger loads efficiently.
- Schedule maintenance during off-peak hours to minimize passenger inconvenience.
- Use onboard composting systems to reduce organic waste and environmental impact.

Pavan

- Integrate advanced propulsion technologies, such as hydrogen fuel cells or battery-electric systems, to reduce energy consumption.
- Train station platforms can be modified to align with the train's doors, facilitating easier boarding for wheelchair users.
- Educate passengers on responsible waste disposal through in-train announcements and signage.
- Offer entertainment options tailored to individual preferences, such as VR experiences or interactive games.
- Offer flexible seating configurations that can be adjusted to accommodate varying passenger loads.
- Employ remote monitoring and maintenance teams equipped with drones for inspections to reduce downtime.

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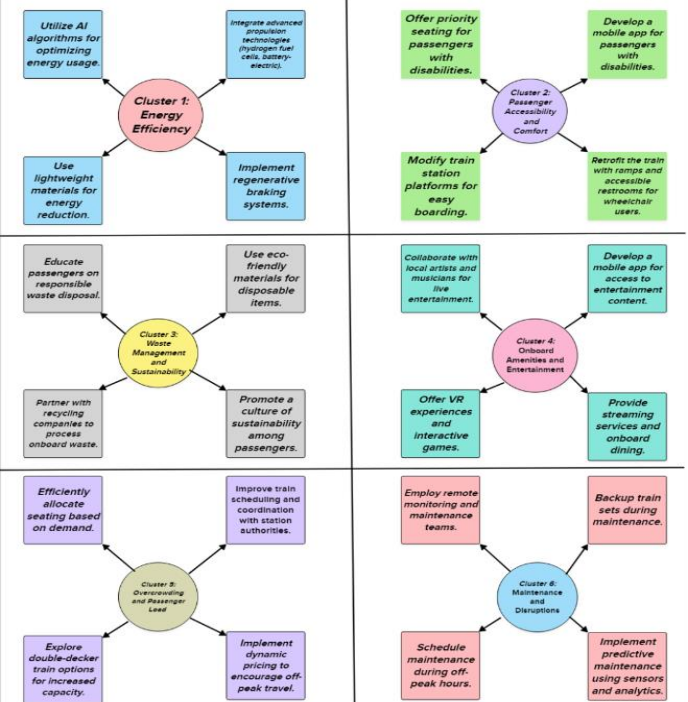
3

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

TIP
Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as themes within your mural.



Step-3: Idea Prioritization

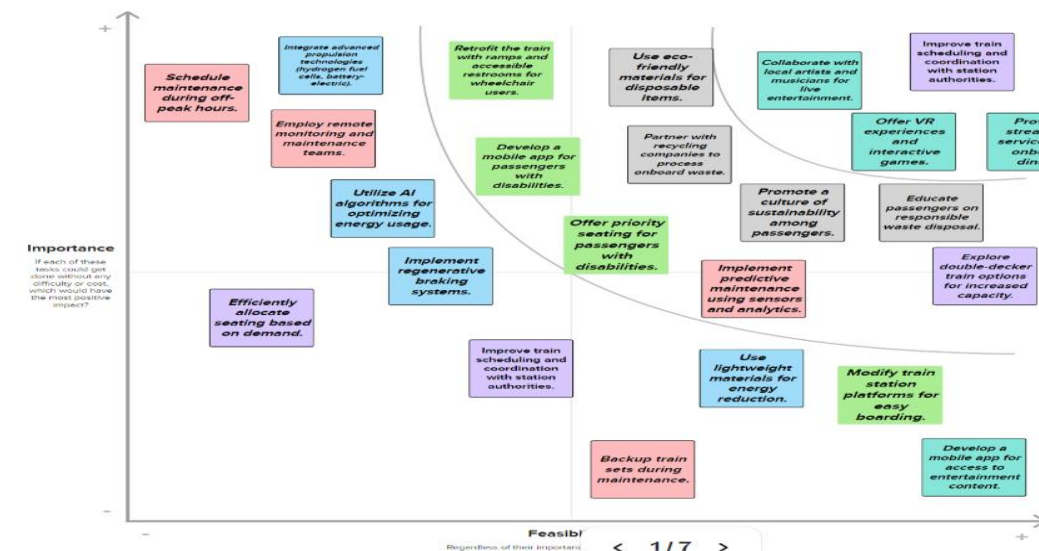
4

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

TIP
Participants can use their cursors to point at where sticky notes should go on the grid. The facilitator can confirm the spot by using the laser pointer holding the H key on the keyboard.



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