Ideation Phase
Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID42348
Project Name	Project- SMART SOLUTIONS FOR RAILWAYS
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization Template:

Project of SMART SOLUTIONS FOR RAILWAYS

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

Step-2: Brainstorm, Idea Listing and Grouping

1

Define your problem statement

Smart solutions for Railway is a technologically advanced approach to efficiently manage railway operations through sharing of rail data across rail infrastructure components, such as passengers, control centers, ticketing departments, etc.,

🕐 **5 minutes**

PROBLEM

IoT technologies help railways successfully manage passengers safely, operational efficiency and the passenger experience.

Key rules of brainstorming
To run an smooth and productive session

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

2

Brainstorm

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

🕐 **10 minutes**

Person 1

| To save labour cost | To secure the safety of passengers |
| To prevent delay of train | To save time |

Person 2

| Automatic open or close the gate | Secure rail transportation solution |
| Storage return on investment | Safe and security |

Person 3

| Cyber security service | rail transportation |
| Operational efficiency | High-impact potential |

Person 4

| Improve freight infrastructure | Make railways visible for perishables |
| Digital Railway Solution | Safety and Security |

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. In the last 10 minutes, 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

Smart solutions on Railways..

Automation of terminals	Advanced Traffic Management Systems
Automation of Train Driving	Electronic information Exchange

Railways Systems Architecture

End to end block Diagrams	Define/test systems interfaces
Systems operationals flow	Compatibility of Data communication interfaces

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**

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

Entertainment systems & passenger wifi

Ticketing kiosks & IP Camera

Storage return on investments

Communication and Cyber Security service

Online ticket booking/ application

Networking

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.

Feasibility

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