

## Project Design Phase-I

### Proposed Solutions

Date	20 October 2023
Team ID	Team-591212
Project Name	Project - Vande Bharat Express
Maximum Marks	2 Marks

### **Proposed Solution 1:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	How might we make Vande Bharat Express more accessible and user-friendly for passengers with disabilities?
2.	Idea / Solution description	Our extensive accessibility program includes ramps, tactile paving, elevators, real-time audio announcements, staff training, and adaptable seating in designated coaches.
3.	Novelty / Uniqueness	The novelty lies in a holistic approach, simultaneously addressing infrastructure, staff training, and technology to ensure a seamless journey.
4.	Social Impact / Customer Satisfaction	The initiative promotes inclusivity, empowering passengers with disabilities, and enhancing customer satisfaction by providing equitable access to efficient rail services.
5.	Business Model (Revenue Model)	Revenue sources include government funding, ticket sales, partnerships with disability organizations, and premium features within the mobile app.
6.	Scalability of the Solution	Highly scalable, Other trains can replicate this concept for more efficient and user-friendly travel.

## **Proposed Solution 2:**

<b>S.No.</b>	<b>Parameter</b>	<b>Description</b>
1.	Problem Statement (Problem to be solved)	How might we enhance passenger comfort and satisfaction during extended train rides?
2.	Idea / Solution description	Enhance passenger comfort on long-haul train journeys by introducing ergonomic seating, on-board relaxation zones with massage chairs, gourmet dining, a dedicated mobile app, and regular comfort feedback surveys for a premium travel experience.
3.	Novelty / Uniqueness	Our approach integrates predictive maintenance technology for proactive issue resolution and minimized disruptions. A centralized maintenance hub and data analytics streamline processes for maximum efficiency.
4.	Social Impact / Customer Satisfaction	This initiative reduces disruptions and delays, enhancing the overall travel experience and improving customer satisfaction. Passengers benefit from a more reliable and punctual service, increasing their trust in the railway system.
5.	Business Model (Revenue Model)	Revenue sources include reduced operational costs through predictive maintenance, improved resource allocation, and increased customer trust. By offering maintenance services to other railway networks or industries, revenue can be generated from external clients.
6.	Scalability of the Solution	This solution has the potential to scale to many train routes on the Indian Railways network, leading to better maintenance and fewer disruptions across the country. The maintenance hub and predictive technology can be used in other industries and networks, increasing revenue and efficiency.