

## Project Design Phase-I Problem–Solution Fit

Date	04 November 2022
Team ID	PNT2022TMID27787
Project Name	Smart Solutions for Railways
Maximum marks	2 Marks

Purpose / Vision: Managing waste for the better environment and for the safe and secure of people

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Define CS, fit into CC	<b>1. CUSTOMER SEGMENT(S)</b> <span style="float: right;">CS</span> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                 Passengers who are travelling in the train and ticket collector             </div>	<b>4. CUSTOMER</b> <span style="float: right;">CC</span> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                 Reducing the paper work of customer.             </div>	<b>5. AVAILABLE SOLUTIONS</b> <span style="float: right;">AS</span> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                 A webpage is designed in which the user can book tickets and will be provided with a QR code which will be shown to the ticket collector and the ticket collector will be scanning the QR code to get the passenger details.             </div>	Explore AS, differentiate	
	<b>2. JOBS-TO-BE-DONE / PROBLEMS</b> <span style="float: right;">J&amp;P</span> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                 In their busy schedule as fast roaming world public in need of online booking process. The queues in front of the ticket counters in railway stations have been drastically increased over the period of time             </div>	<b>9. PROBLEM ROOT CAUSE</b> <span style="float: right;">RC</span> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                 The main reason for the problem that has occurred for due to lack of technology earlier since passengers find it difficult to book the ticket and track the location of train.                   To overcome this problem we have introduced QR code and GPS tracker for booking the ticket and finding the location of the train             </div>	<b>7. BEHAVIOUR</b> <span style="float: right;">BE</span> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                 By listening to the customer we can provide genuine empathy for the problem regarded.                   By looking over the ration session we can easily find out how the customer gets issues while using the application.             </div>		Focus on J&P, fit into BE, understand RC
	<b>3. TRIGGERS</b> <span style="float: right;">TR</span> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                 Saves paper and work load             </div>	<b>14. YOUR SOLUTION</b> <span style="float: right;">SL</span> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                 *A webpage is designed in which the user can book tickets and will be provided with a QR code which will be shown to the ticket collector and the ticket collector will be scanning the QR code to get the passenger details.                  * The webpage also shows the live locations of the train by placing a GPS module in the train. The location of the journey will be updated continuously in the webpage.                  * The booking details of the user will be stored in the database which can be retrieved anytime.             </div>	<b>6. CHANNELS of BEHAVIOUR</b> <span style="float: right;">CH</span> ONLINE <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                 People can book their tickets through online and they get a QR code through sms             </div> OFFLINE <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                 In web application passenger details is stored and the ticket collector can view their details at any time.             </div>		
<b>4. EMOTIONS: BEFORE / AFTER</b> <span style="float: right;">EM</span> <ul style="list-style-type: none"> <li>NO NEED OF TAKING PRINT OUT</li> <li>COUNTER TICKET HAS TO BE HANDLED WITH CARE, BUT SMS ON MOBILE IS ENOUGH.</li> <li>YOU ARE BECOMING ENVIRONMENT FRIENDLY AND CONTRIBUTING FOR GREENER PLANET BY IGNORING PRINTOUT,</li> <li>NO NEED OF TAKING OUT WALLET AND SHOWING YOUR TICKET TO TTR, JUST TELL YOUR NAME TO TTR THAT YOU ARE PASSENGER WITH A VALID PROOF.</li> <li>WHILE BOOKING COUNTER TICKET YOU HAD TO GARRY CASH AND WHILE BOOKING E-TICKET YOU ARE PAYING THROUGH ONLINE DIRECTLY FROM BANK WHICH MAKES WORK MORE EASY FOR YOU.</li> </ul>					