**Project Title: SMART SOLUTIONS FOR RAILWAYS Project Design Phase-I** - **Solution Fit Template Team ID:** PNT2022TMID42281

**Focus on J&P, tap into BE, understand RC**

**Explore AS, differentiate**

**Deﬁne CS, ﬁt into CC**

**or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? i.e. pen and paper is an alternative to digital notetaking**

**Schematic view for the available seats in a train**

**Generating a QR code for the passengers booking the tickets, which includes all the details of the passengers.**

**AS**

1. **AVAILABLE SOLUTIONS**

Which solutions are available to the customers when they face the problem

What constraints prevent your customers from taking action or limit their choices

of solutions? i.e. spending power, budget, no cash, network connection, available devices.

**Refund after cancellation of tickets will be only after a day .**

**Preference of seat after allocation cannot be changed Refund after cancellation of tickets will be only after a day**

**Preference of seat after allocation cannot be changed.**

**CC**

**6. CUSTOMER CONSTRAINTS**

**CS**

**1. CUSTOMER SEGMENT(S)**

Who is your customer?

1. **Normal passengers**
2. **Working employees in cities**

**Explore AS, differentiate**

**Define CS, fit into CC**

1. **e. directly related: ﬁnd the right solar panel installer, calculate usage and beneﬁts; indirectly associated: customers spend free time on volunteering work (i.e. Greenpeace)**
2. **The customers try to find the seat they prefer after boarding the train.**
3. **The customers will take care of their ticket very cautiously until they are approved by the TTR.**

**BE**

**7. BEHAVIOUR**

What does your customer do to address the problem and get the job done?

**RC**

**9. PROBLEM ROOT CAUSE**

1. **What is the real reason that this problem exists? What is the back story behind the need to do this job?**
2. **Forget to take the identification id with them.**
3. **Due to server problems delay in train booking.**
4. **Train tracking problem**

**J&P**

1. **JOBS-TO-BE-DONE / PROBLEMS**

Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides

**\* poor accessibility of webpage**

**\*lack of e-catering**

**\*non availability of qr code for travelling in trains**

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**Identify strong TR & EM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Identify strong TR & EM** | **3. TRIGGERS TR**  **What triggers customers to act? i.e. seeing their neighbour installing solar panels, reading about a more efﬁcient solution in the news.**  **Generally speaking, the process of booking is bad. It should be the website of definitely notifying when the train arrives. The smart app should display the dispatching time of the train to notify the customer.** | **10. YOUR SOLUTION SL**  **If you are working on an existing business, write down your current solution ﬁrst, ﬁll in the canvas, and check how much it ﬁts reality.**  **If you are working on a new business proposition, then keep it blank until you ﬁll in the canvas and come up with a solution that ﬁts within customer limitations, solves a problem and matches customer behaviour.**  **As an alternative to static signboards in railway stations, we use smart linked applications. These intelligent connected applications automatically update with the current speed limits and train arrivals using a web app and weather API** | 1. **CHANNELS of BEHAVIOUR CH**     1. **ONLINE**   **The customers would be able to express either their needs or their complaints directly using the website in which they have booked their tickets.**  **They can also do it using email,messages,etc.**   * 1. **OFFLINE**   **The customers should analyze the working of the ticketing system directly in the train station and get the ticket. They should ask guidance from the people working in the station.** |  |
| **4. EMOTIONS: BEFORE / AFTER EM**  **How do customers feel when they face a problem or a job and afterwards?**  **i.e. lost, insecure > conﬁdent, in control - use it in your communication strategy & design.**  **After choosing an operation mode with the use of online connectivity, customers will feel better and will adhere to the guidelines on the railway websites.** |