**Project Design Phase – I**

**Proposed Solution Template**

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID52217 |
| Project Name | Smart Solution For Railways |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

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| S.NO | Parameter | Description |
| 1. | Problem Statement (Problem to be solved) | While booking a train ticket the user takes long time to book and sometimes the ticket gets lost. As a solution for this an IOT based web application is introduced which reduces the work load and paper work. |
| 2. | Idea / Solution description | Using this web app the user can check the seat availability while booking a ticket and instead of the ticket paper the QR code is developed for individual user. |
| 3. | Novelty / Uniqueness | This web app enables the user to track the status as the GPS module is present and the status of the train is updated.  By using this application user can know the current status like departures, arrivals, delays of the train and in this model the ticket paper is not needed. |
| 4. | Social Impact / Customer Satisfaction | The loss of ticket paper at the last moment makes the user feel stress and the user has to face the loss of pay.  The poor punctuality of the train makes the customer feel disappointed. |
| 5. | Business Model (Revenue Model) | **Increased efficiency:**Congestion and over crowding create operational inefficiencies.Using deep learning and AI through computer vision,operators can monitor passenger flow and gather data for advanced analytics to help enable more-informed decision-making around staffing and security.  **Reduced downtime:** Sensors, cameras and in-vehicle computers empower rail operators to monitor their fleets diagnostic data to minimize breakdowns,predict maintenance repairs and optimize servicing schedules to keep trains in working order and moving. |
| 6. | Scalability of the Solution |  |