PROJECT DESIGN PHASE-I
PROPOSED SOLUTION TEMPLATE

TEAM LEADER NAME	Biplab Das S
TEAM MEMBERS	Harsha K Jaffer Sathick HM Jawahar Prasad S
PROJECT NAME	PROJECT – SMART SOLUTIONS FOR RAILWAYS
MAXIMUM MARKS	2 MARKS

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.NO.	PARAMETER	DESCRIPTION
1.	**Problem Statement (Problem to be solved)**	• The goal of smart solutions for railways is to lessen user workload, reduce paper use, and deliver real-time train location information. • Due to their hectic schedules and rapid global travel, online booking process is required. The lines at the area in front of the ticket windows in railroad has to be reduced. • The amount has significantly increased over time. • "Ticket reservations made at the counter are insufficient", very practical for the travellers. • The travellers are having difficulty obtaining tickets in time for the even counters. Therefore, people prefer to use online tickets booking.
2.	**Idea / Solution description**	• The user can book tickets on a website, respective to the allocations of each gender safety where they will also receive a QR code that they can display to the ticket collector so that the ticket collector can scan it to retrieve the user's information.

		● By installing a GPS module inside the train, the website also displays the train's real-time positions. The journey's location will be regularly updated on the website.
		● The database will contain the user's booking information, which may be retrieved at any time.
3.	Novelty / Uniqueness	● The homepage will offer the customer a QR code, which will cut down on paper effort. ● When the ticket collector scans the QR Code, all of the client booking information will be stored in the database with a special ID and be retrievable. ● Also included is an interactive seat map.
4.	Social Impact / Customer Satisfaction	● There is no need to go to the station to purchase tickets, and the transaction procedure is made simple. The system is also easy to use and trustworthy. ● One can manage online ticket reservations and submit a cancellation request in the event of a change in plans. ● On all confirmations and cancellations, the customer will receive notifications through email and mobile phone.
5.	Business Model (Revenue Model)	● Model (Revenue Model) - With the help of this application, the client may plan their trip, check the availability of seats, examine an interactive seat map, and choose a seat that is most convenient for them. ● Additionally, it makes it simple for your clients to schedule daily shuttles and journeys, and it minimizes carrying around tickets.

		• The consumer may also view the train's current location. Without this arrangement, individuals would have to travel to the station to purchase tickets and bring those tickets with them to the ticket collector.
6.	**Scalability of the Solution**	• Counter tickets must be handled carefully, but text messages on a phone are more than sufficient. • Printouts are unnecessary, by disregarding printouts, you are becoming more environmentally conscious and helping to create a greener planet. • Tell TTR your name and that you are a passenger with a legitimate evidence without having to take out your wallet or show them your ticket. • While purchasing an E-ticket online straight from your bank makes your work easier, purchasing a counter ticket required you to have cash.