PROJECT DESIGN PHASE-I

SOLUTION ARCHITECTURE

Date	30 September 2022
Team ID	PNT2022TMID16033
Project Name	Smart Solutions for Railways using IOT
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

➢ A Web page is designed for the public where they can book tickets by seeing the available seats and it will be best solution .In order to create website and QR we have used IOT.

➢ Initially we need to create a webpage where user can book tickets and after booking, they will get the QR code which includes the personal details. And also they can the track the live status of train.

➢ Development phases:

- Step 1: Configure IBM cloud services.

- Step 2: Develop the python script to publish data.

- Step 3: Develop the web application.

- Step 4: Testing the web UI by proving inputs.

- Step 5: Performance Evaluation.

Solution Architecture Diagram:

IOT Device

Python Code
(Random data)

IBM
Watson IOT
Platform

Node - RED

Cloudant DB

Web UI

Fast SMS

User