PROJECT DESIGN PHASE -I SOLUTION ARCHITECTURE

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PROJECT NAME : SMART SOLUTION FOR RAILWAYS

DOMAIN : INTERNET OF THINGS

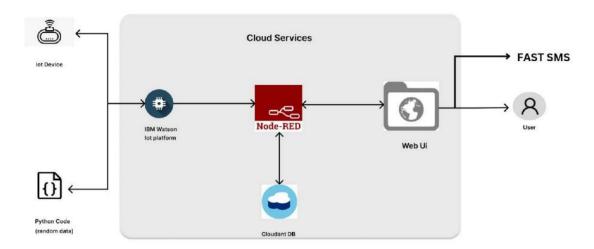
SOLUTION ARCHITECTURE FOR SMART SOLUTION FOR RAILWAYS

The proposed solution for passengers who uses railways is to provide easy and simple way of booking tickets with paperless format. By using QR code generation, customers can able to board in trains effectively. Ticket collector can able to scan the QR code for cross-checking the passengers' personal details, where it is stored in a database for commercial uses.

By the same way, users/passengers can able to track their respective rails with help of the web-based application, where the live status of each and every rails is updated contiguously and users can directly check whether seats are available or not with the help of their smart-phones easily.

It produces more efficient way of ticket-booking technique, where every passengers gets an unique id for their journey and this unique id helps ticket-collector to obtain elaborated information about the passengers and their journey details.

SOLUTION ARCHITECTURE DIAGRAM:



The user gets interacted with web application which is directly connected to NODE-RED service. NODE-RED takes data from Cloudant-DB and output of IBM Watson IOT platform to process the rail information needed for passengers.

IBM Watson IOT platform processes Python code and result of IOT device and sends the result values and information to NODE-RED.

With the help of these components, user can able to obtain expected results inn faster manner.