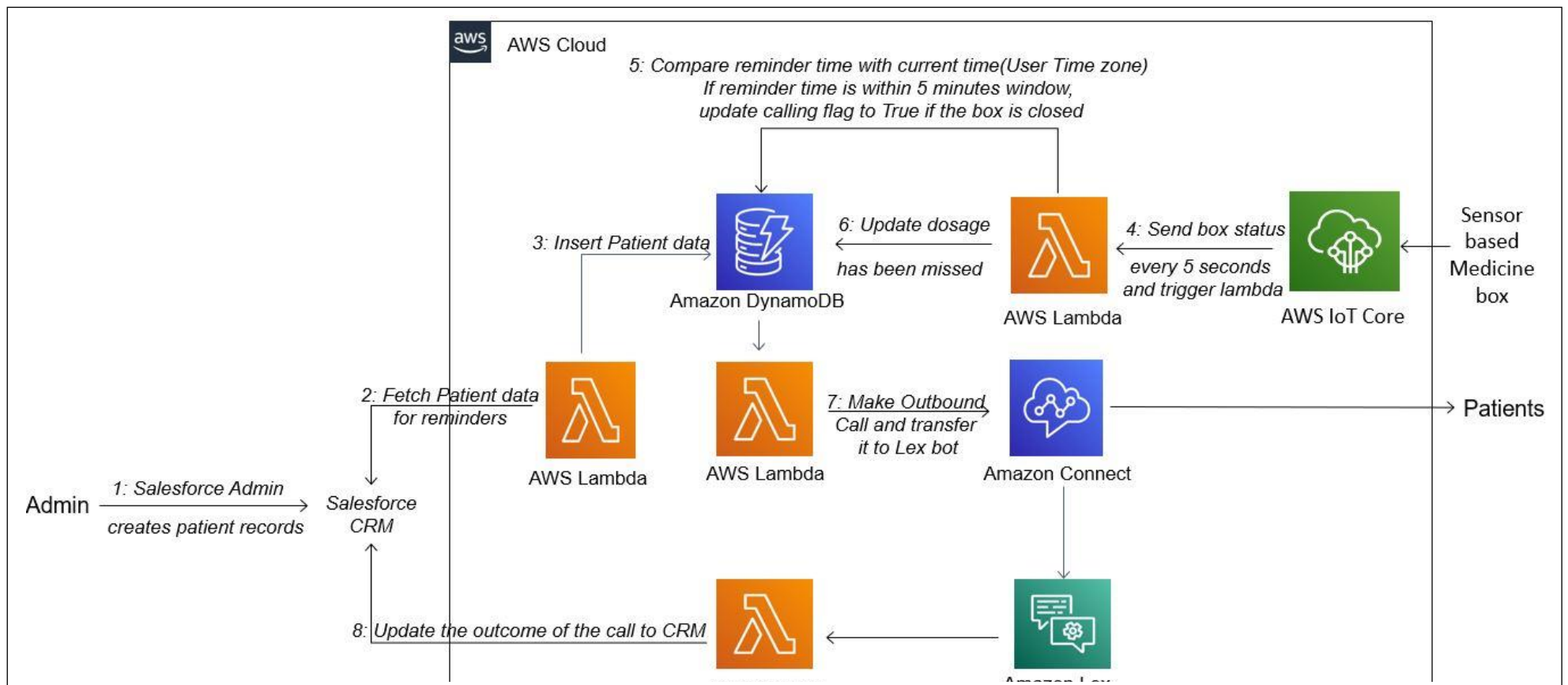


Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	17 October 2022
Team ID	PNT2022TMID33538
Project Name	Project - IOT
Maximum Marks	4 Marks

Technical Architecture:



1.	User Interface	Mobile App.	HTML, CSS, JavaScript
2.	Application Logic-1	Mobile App to enter the Medicine Details weekly.	Python
3.	Application Logic-2	Gets the medication data from database.	IBM Watson IOT API call data.
4.	Application Logic-3	Converts the text to speech to pronunciation for the user.	IBM Watson Assistant
5.	Database	Medication time and tablets name on daily .	MySQL.
6.	Cloud Database	Call the data IBM Cloud and is used and user login credentials.	IBM DB2, IBM Cloudant etc.
7.	File Storage	App code and IoT credentials are stored and API keys.	IBM Block Storage
8.	External API-1	To get the medicine box status Open or not.	IBM box status API
9.	External API-2	To get the login credentials in IBM DB2.	Username and Password
10.	Machine Learning Model	To convert the text into speech for voice command the tablet details.	Text to Speech
11.	Infrastructure (Server / Cloud)	To host the server and application.	Cloud Foundry, Node Red

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	To develop the application interface, we use MIT App Inventor.	Technology of Opensource framework
2.	Security Implementations	To secure the users login credentials and personal information.	SHA-256,, OWASP etc.
3.	Scalable Architecture	To scale the application database	IBM Auto scaling.
4.	Availability	To make use the application and data area available 24/7	IBM Cloud load balancer
5.	Performance	To increase the performance the application in hosted in the highperformance instance.	IBM instance

References:

<https://aws.amazon.com/blogs/contact-center/build-a-drug-reminder-service-with-aws-iot-amazon-lex-and-amazon-connect/>

