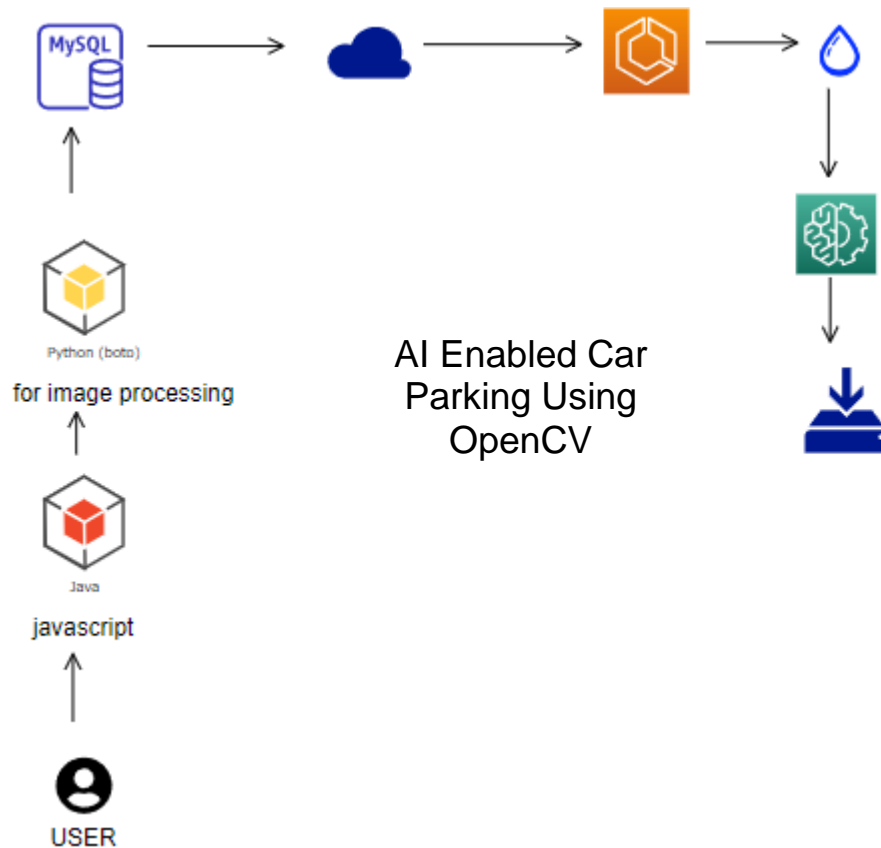


Project Design Phase-II Technology Stack (Architecture & Stack)

Date	15 May 2023
Team ID	NM2023TMID16367
Project Name	AI Enabled Car Parking Using OpenCV

TECHNOLOGY ARCHITECTURE DIAGRAM:



S.No	Component	Description	Technology
1.	User Interface	Web application	MIT app inventor
2.	Application Logic-1	Uploading of xray document	Java script
3.	Application Logic-2	Image processing libraries	python
4.	Application Logic-3	For interfacing	IBM Watson Assistant
5.	Database	Data Type and Configurations	MySQL.
6.	Cloud Database	Database Service on Cloud	IBM Cloudant
7.	File Storage	File storage requirements	IBM Block Storage

8.	External API-1	For weather monitoring	IBM Weather API.
9.	External API-2	none	none
10.	Machine Learning Model	For image processing	Machine learning model
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System :	Local

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Accept many subscriber	Web application django
2.	Security Implementations	Authentication,authorization, encryption,logging	Oauth,http basic,AES 128 bit
3.	Scalable Architecture	3 – tier(support thousands of users and manages database requests)	Oracle apex
4.	Availability	Load balancing done to control network trafficking.	Server load balancing
5.	Performance	By hit ratio cache performance is measured.	AI