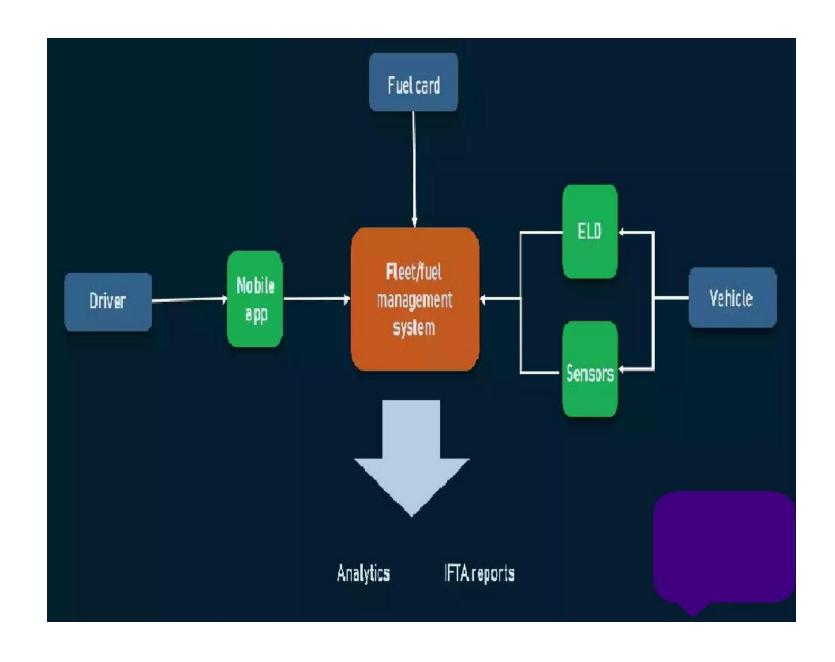
Project Design Phase-II Technology Stack (Architecture & Stack)

Date	10 October 2022
Team ID	PNT2022TMID49664
Project Name	Project - Trip based modelling of fuel consumption for modern fleet vehicles using machine learning.
Maximum Marks	4 Marks

Technical Architecture:



The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2.

Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application	HTML, CSS, JavaScript /
		e.g.	Angular Js / React Js etc.
		Web UI, Mobile App, Chatbot etc.	
2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other
			Storage Service or Local
			Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.

9.	External API-2	Purpose of External API used in the	Aadhar API, etc.
		application	
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model,
			etc.
11.	Infrastructure (Server /	Application Deployment on Local	Local, Cloud Foundry,
	Cloud)	System / Cloud	Kubernetes, etc.
		Local Server Configuration:	
		Cloud Server Configuration:	

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource
			framework
2.	Security Implementations	List all the security / access controls	e.g. SHA-256, Encryptions,
		implemented, use of firewalls etc.	IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture	Technology used
		(3 – tier, Micro-services)	
4.	Availability	Justify the availability of application	Technology used

	Characteristics	Description	Technology
		(e.g. use of load balancers, distributed servers etc.)	
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used