

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

Date	03 October 2022
Team ID	PNT2022TMID10211
Project Name	Project – airlines data analytics for aviation industry
Maximum Marks	4 Marks

Technical Architecture:

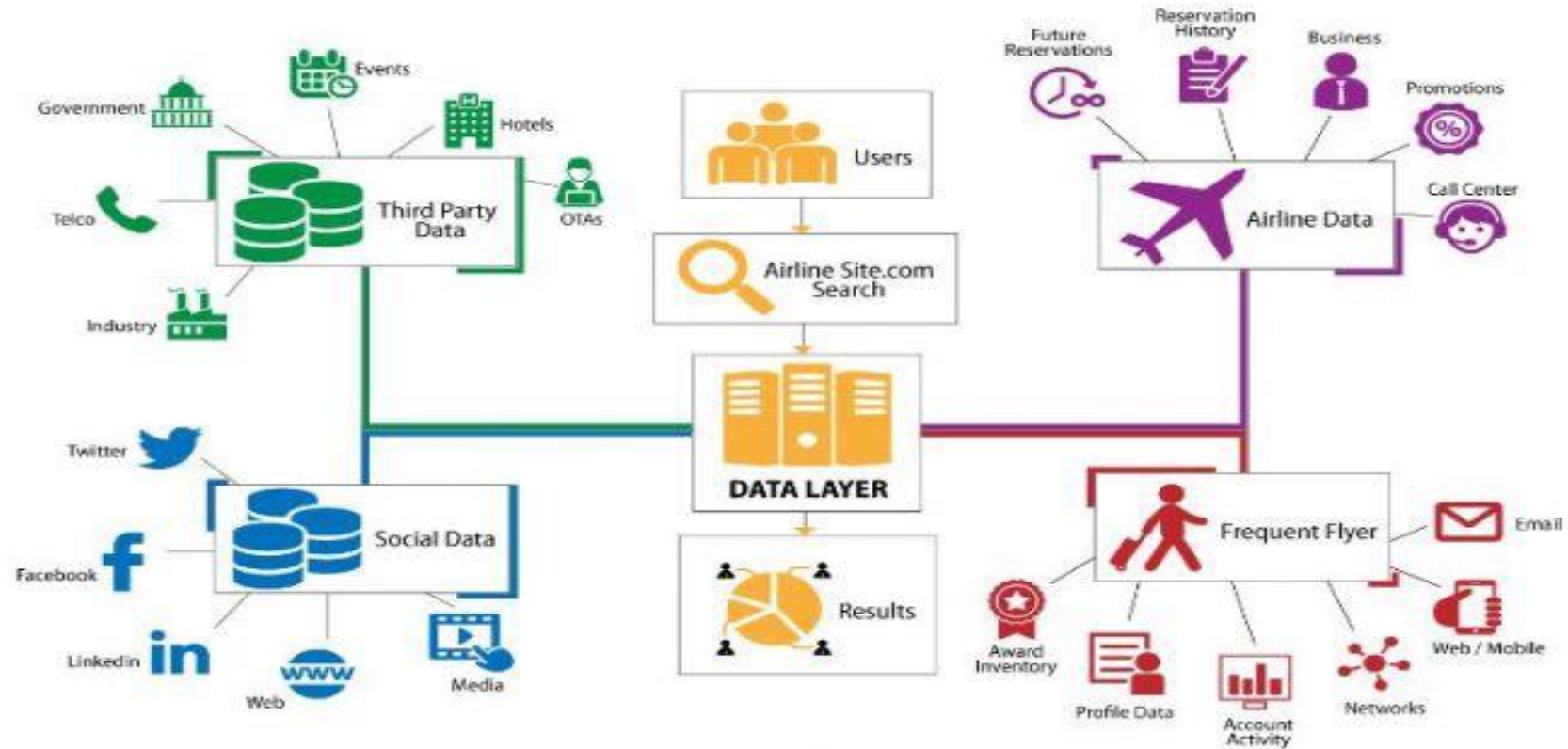


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	Python/IBM cognos.
2.	Application Logic-1	Logic for a process in the application	Python/IBM cognos
3.	Application Logic-2	Logic for a process in the application	Python/IBM cognos
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Databset	Data Type, Configurations etc.	Python/IBM cognos
6.	Dataset	Cognos analytics	Python/IBM cognos
7.	File Storage	File storage requirements	Python/IBM cognos
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 application	Aadhar API, etc.
10.	Infrastructure (Server / Cloud)	Dash board development	IBM cognos

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 implemented, use of firewalls etc.	IBM WATSON/open source dataset
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used

S.No	Characteristics	Description	Technology
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used
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