Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	20 October 2022
Team ID	PNT2022TMID12865
Project Name	Airline Data Analytics for Aviation Industry
Maximum Marks	4 Marks

Technical Architecture:

This includes the architectural diagram and the regarding information.

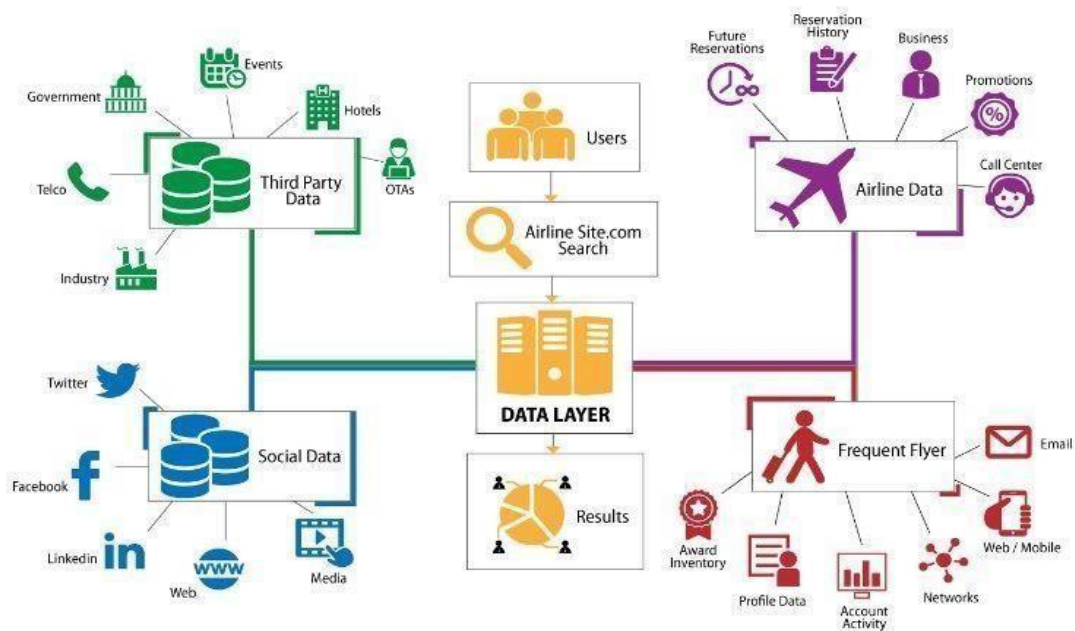## Example:

Airline Data Analytics For Aviation Industry

© Copyright 2015 markrs.co

Table-1: Components & Technologies:

1. Open-Source Frameworks :

> List the open-source frameworks used
>
> Technology of open- source framework

2. Security Implementations:

> List all the security/access controls implemented, use of fire walls
>
> EXAMPLE: SHA – 256, Encryption, IAM Contrls,OWASP

3. Scalable architecture:

> Justify the scalability of architecture
>
> Cognos Used

4. Availability

> Justify the availability of application(eg. Use of load balancers, distributed servers)
>
> AWS used

5. Performance

> Design consideration for the performance of the application(number of requests per second, use of Cache, use of CDN's)
>
> Dashboard, Reports, Stories.

Table-2: Application Characteristics(Components, Description, Technology):

1.User interface:

> How user interacts with application. Example: Mobile App
>
> HTML, CSS, JavaScript, Excel

2. **Application Logic-1:**

> Logic for a process in the application
>
> IBM Watson STT service, Python

3.Application Logic-2:

> Logic for a process in the application
>
> IBM Watson Assistant

4.**Database:**

> Data Type, Configurations

MySQL, NSQL

6. **Cloud Database** :

Database service on cloud

IBM DB2, IBM Cloudant

7. **File storage:**

File storage requirements

IBM Blocks storage or other storage service or local file system

8. **External API – 1:**

Purpose of External API used in the application

IBM weather API

9. **External APi-1:**

Purpose of external API used in the application

Aadhar API

10.**Infrastructure:**

Application Deployment on Local System/Cloud Local server Confi guration:
Cloud Server Configuration

Local, Cloud Foundry