

Project Design Phase-II

Technology Stack (Architecture & Stack)

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| Date | 15 October 2022 |
| Team ID | PNT2022TMID36536 |
| Project Name | Airline Data Analytics for Aviation Industry |

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table2.

Example:

Airline Data Analytics For Aviation Industry

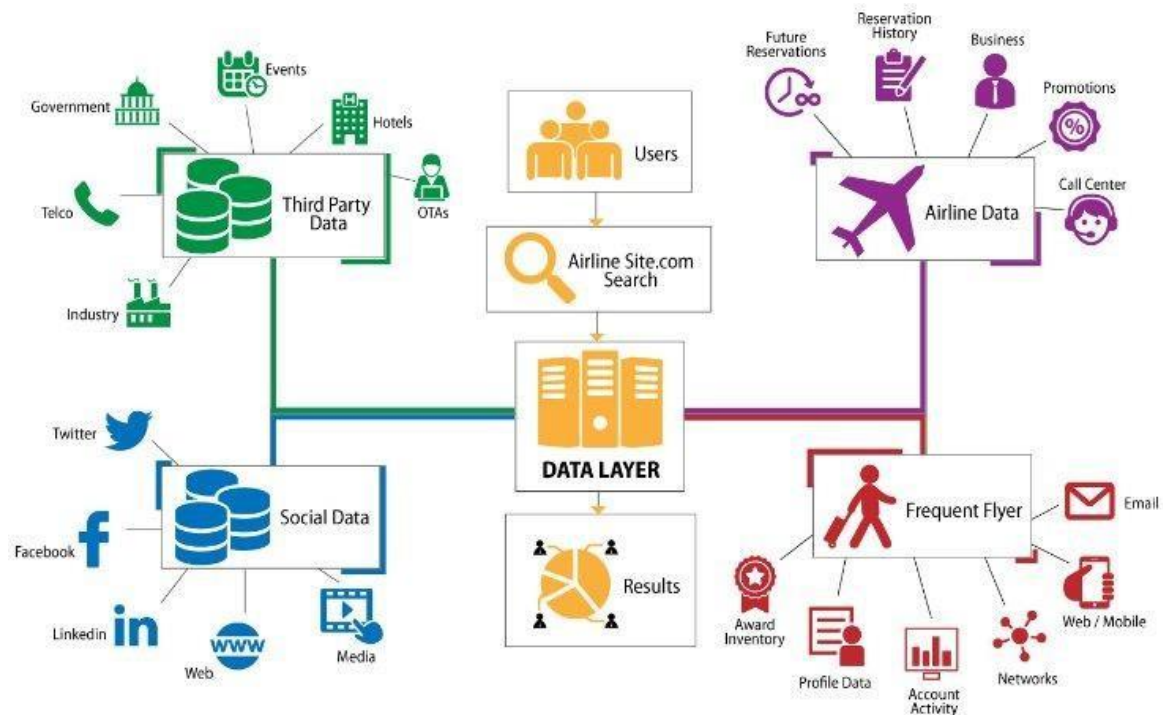


Table-1: Components & Technologies:

| S.No | Components | Description | Technology |
|------|-------------------------------|--|--|
| 1. | User Interface | How user interacts with application. Example: Mobile App | HTML, CSS, Java Script, 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 |
| 5. | Cloud Database | Database service on cloud | IBM DB2, IBM Cloudant |
| 6. | File Storage | File Storage requirements | IBM Blocks Storage or other storage service or Local File system |
| 7. | External API-1 | Purpose of External API used in the application | IBM Weather API |
| 8. | External API-1 | Purpose of External API used in the application | Aadhar API |
| 9. | Infrastructure (Server/Cloud) | Application Deployment on Local System/Cloud Local Server Configuration: Cloud Server Configuration | Local, Cloud Foundry |

Table-2: Application Characteristics:

| S.No | Characteristics | Description | Technology |
|------|--------------------------|--|---|
| 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 firewalls. | Example: SHA-256, Encryption, IAM Controls, OWASP |

| | | | |
|----|-----------------------|---|---------------------------|
| 3. | Scalable Architecture | Justify the scalability of architecture | Cognos Used |
| 4. | Availability | Justify the availability of application (e.g: 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 |