

## Project Design Phase-II

### Technology Stack (Architecture & Stack)

#### 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

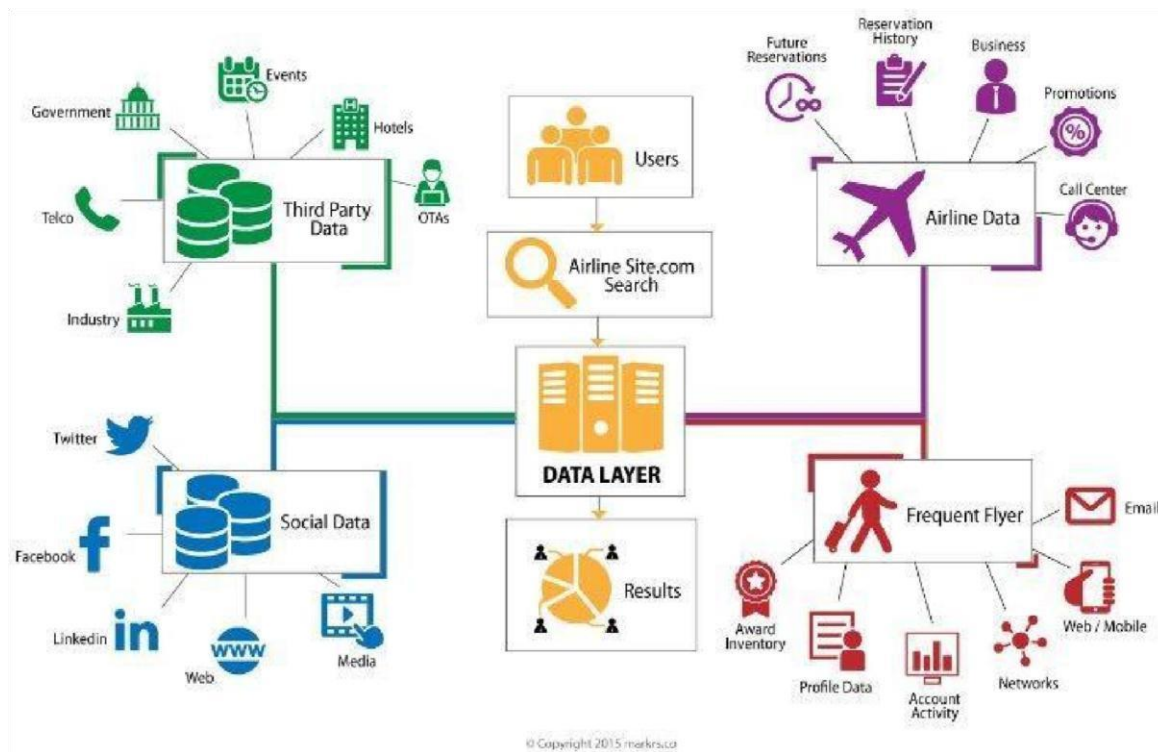


Table-1: Components & Technologies:

| S.No | Components | Description | Technology |
|------|------------|-------------|------------|
|------|------------|-------------|------------|

|    |                               |  |  |
|----|-------------------------------|--|--|
| 1. | User Interface                | How user interacts with application.<br>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<br>Local Server<br>Configuration: Cloud<br>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                         |