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

| Date | 21 June 2025 |
|------|--------------|
| Team ID | LTVIP2025TMID49745 |
| Project Name | Cosmetic insights:Navigating Cosmetic Trends and Consumer insights with Tableau |
| Maximum Marks | 4 Marks |

## Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

**Example: Order processing for cosmetic products**

**Reference:**
https://developer.ibm.com/patterns/ai-powered-backend-system-for-order-processing-during-pandemics/
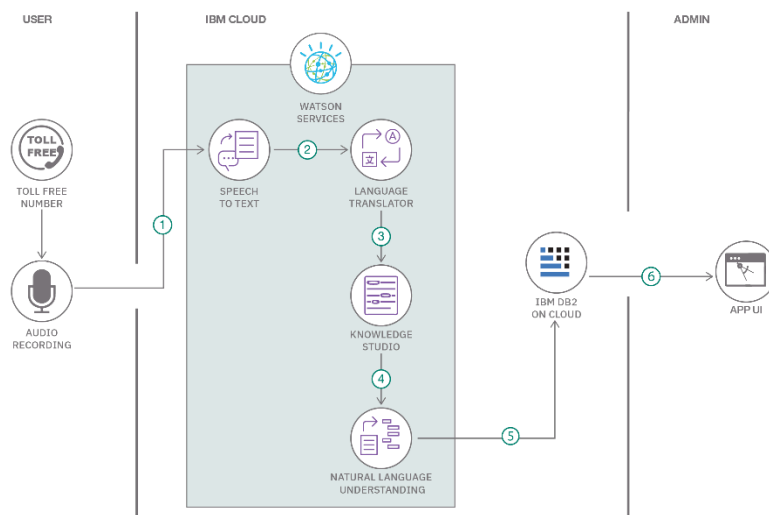


**Table-1 : Components & Technologies:**

| S.No | Component | Description | Technology |
|------|-----------|-------------|------------|
| 1. | User Interface | How user interacts with application for tableau | Tableau |
| 2. | Application Logic-1 | Logic for a process in the application | Tableau |
| 3. | Application Logic-2 | Logic for a process in the application | Tableau |
| 4. | Application Logic-3 | Logic for a process in the application | Tableau |

| | | | |
|---|---|---|---|
| 5. | Database | Data Type, Configurations etc. | MySQL, NoSQL, etc. |
| 6. | Cloud Database | Database Service on Cloud | Nil |
| 7. | File Storage | File storage requirements | Hyper Technology |
| 8. | External API-1 | Purpose of External API used in the application | Nil |
| 9. | External API-2 | Purpose of External API used in the application | Nil |

**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. | AVL Technology |
| 3. | Scalable Architecture | Justify the scalability of architecture (3 – tier, Micro-services) | Technology used |
| 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. | Good and fast |

**References:**

https://c4model.com/

https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/

https://www.ibm.com/cloud/architecture

https://aws.amazon.com/architecture

https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d