

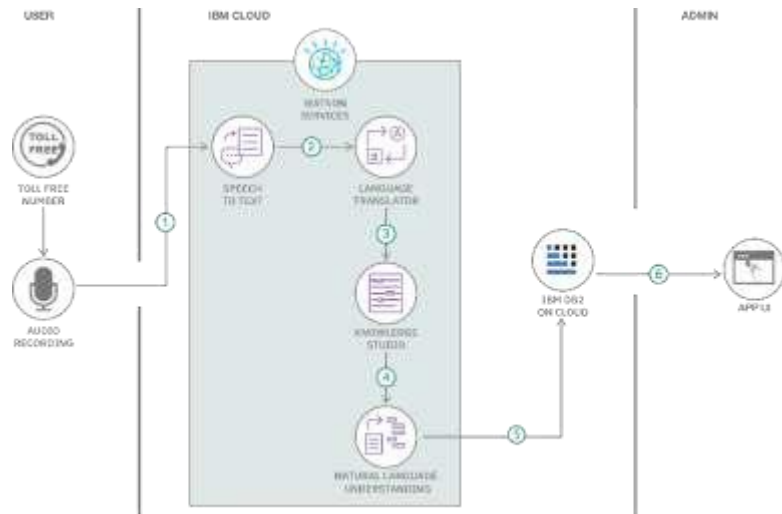
Project Design Phase-II Technology Stack (Architecture & Stack)

| | |
|----------------------|------------------------|
| Date | 03 October 2022 |
| Project Name | Indian Food EDA |
| Team ID | NM2023TMID05019 |
| 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: Ordering the food from the shops



Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

| S.No | Component | Description | Technology |
|------|---------------------------------|---|---|
| 1 | Data Source | IBM Db2 | Relational Database |
| 2 | Data Analysis and Visualization | IBM Cognos Analytics | IBM cloud Analytics |
| 3 | Data Integration | IBM Db2 Connect | Data Integration Software |
| 4 | Data Security | RBAC, Data Encryption | Security Mechanisms |
| 5 | Reporting and Dashboarding | IBM Cognos Dashboards | Reporting and Dashboarding Tool |
| 6 | Data Quality Assurance | Data Cleaning and Transformation Tools | ETL Tools (e.g., Informatica) |
| 7 | Project Management | Project Management Software (e.g., Jira, Trello) | Project Management Tools |
| 8 | Data Storage | IBM Db2 | Relational Database |
| 9 | Compliance and Data Privacy | GDPR Compliance Tools and Policies | Compliance Software |
| 10 | Marketing Campaign Management | Marketing Automation Tools (e.g., HubSpot, Marketo) | Marketing Software |
| 11 | Customer Feedback Collection | Feedback Forms, Surveys | Data Collection Tools |
| 12 | Customer Support | CRM Software (e.g., Salesforce, Zendesk) | Customer Relationship Management (CRM) Software |
| 13 | Collaboration and Communication | Team Collaboration Tools (e.g., Slack, IBM Teams) | Collaboration Tools |
| 14 | Budget Management | Financial Software (e.g., QuickBooks, Xero) | Financial Software |
| 15 | IT Infrastructure | Server and Network Infrastructure | IT Infrastructure |
| 16 | User Training | Training Materials, Workshops | Training Resources |
| 17 | Data Backup and Recovery | Data Backup Systems | Backup and Recovery Solutions |
| 18 | Data Monitoring | Data Monitoring Tools | Monitoring Software |
| 19 | Analytics Tools | Advanced Analytics Tools (e.g., Python, R) | Analytics Software |
| 20 | Marketing Tools | Digital Marketing Software (e.g., Google Ads, Facebook Ads) | Marketing Software |

Table-2: Application Characteristics:

| S.No | Characteristics | Description | Technology |
|------|--------------------------|---|--------------------------|
| 1 | Scalability | The application should be able to scale with growing data and user demands. | Scalable Architecture |
| 2 | Performance | The application must provide fast data analysis and reporting. | Performance Optimization |
| 3 | Security | Data security and privacy are critical aspects of the application. | Security Features |
| 4 | User-Friendly | The application should be intuitive for users with varying technical backgrounds. | User-Friendly Interface |
| 5 | Real-Time Insights | Users should have access to real-time you tube campaign insights. | Real-Time Processing |
| 6 | Data Accuracy | The application must ensure data accuracy for informed decision-making. | Data Validation |
| 7 | Integration Capabilities | The application should integrate seamlessly with various data sources and tools. | Integration APIs |
| 8 | Compliance | Compliance with data privacy regulations like GDPR is essential. | Compliance Features |
| 9 | Collaboration | Users should be able to collaborate and share insights within the application. | Collaboration Tools |
| 10 | Mobility | The application should be accessible on mobile devices for on-the-go analysis. | Mobile Compatibility |