

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

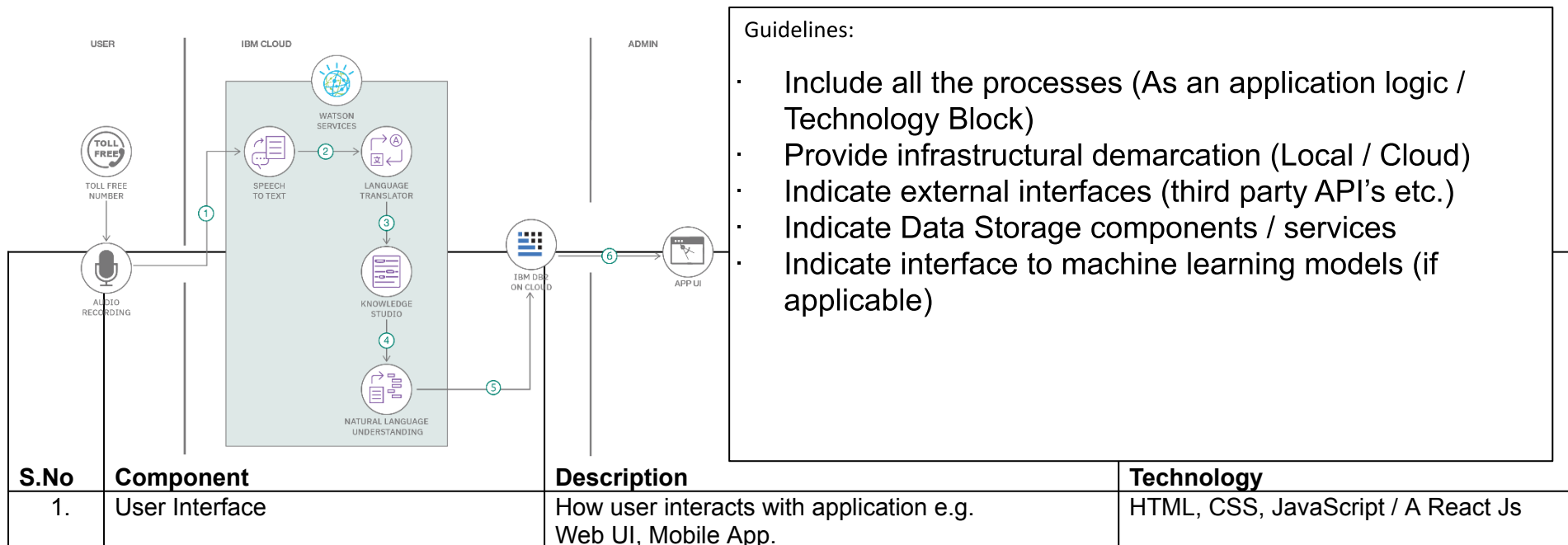
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|---------------|-------------------------|
| Date | 13 October 2022 |
| Team ID | PNT2022TMID53427 |
| Project Name | Project Design Phase-II |
| Maximum Marks | 4 Marks |

Technical Architecture:

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

Example: Order processing during pandemics for offline mode

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



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|----|-------------------------|---|--|
| 2. | Application Logic-1 | User class creation | Java/Python |
| 3. | Application Logic-2 | Cognos Analytics For Data cleaning and visualization. | IBM Watson Assistant |
| 4. | Database | Data Type, Configurations et. | MySQL, NoSQL, etc. |
| 5. | Cloud Database | Database Service on Cloud | IBM DB2, IBM Cloudant etc. |
| 6. | File Storage | 4GB RAM,Hard Disk 1TB (Minimum) | IBM Block Storage or Other Storage Service or Local Filesystem |
| 7. | Machine Learning Model | To analyze the data and provide useful solutions and prediction to the user | Employee Attrition Model |
| 8. | Infrastructure (Cloud) | Application Deployment on Cloud | IBM Cloud |

Table-2: Application Characteristics:

| S.No | Characteristics | Description | Technology |
|------|--------------------------|---|-----------------------|
| 1. | Open-Source Frameworks | List the open-source frameworks used | Node.js, Angular.js. |
| 2. | Security Implementations | List all the security / access controls implemented, use of firewalls etc. | SHA-256, Encryptions, |
| 3. | Scalable Architecture | Application Used in Small,MidSize and Large Companies | IIBM Cloud |
| 4. | Availability | Use of Cloud Platform | IBM Cloud |
| 5. | Performance | Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc. | Technology used |

