

## Project Design Phase-II

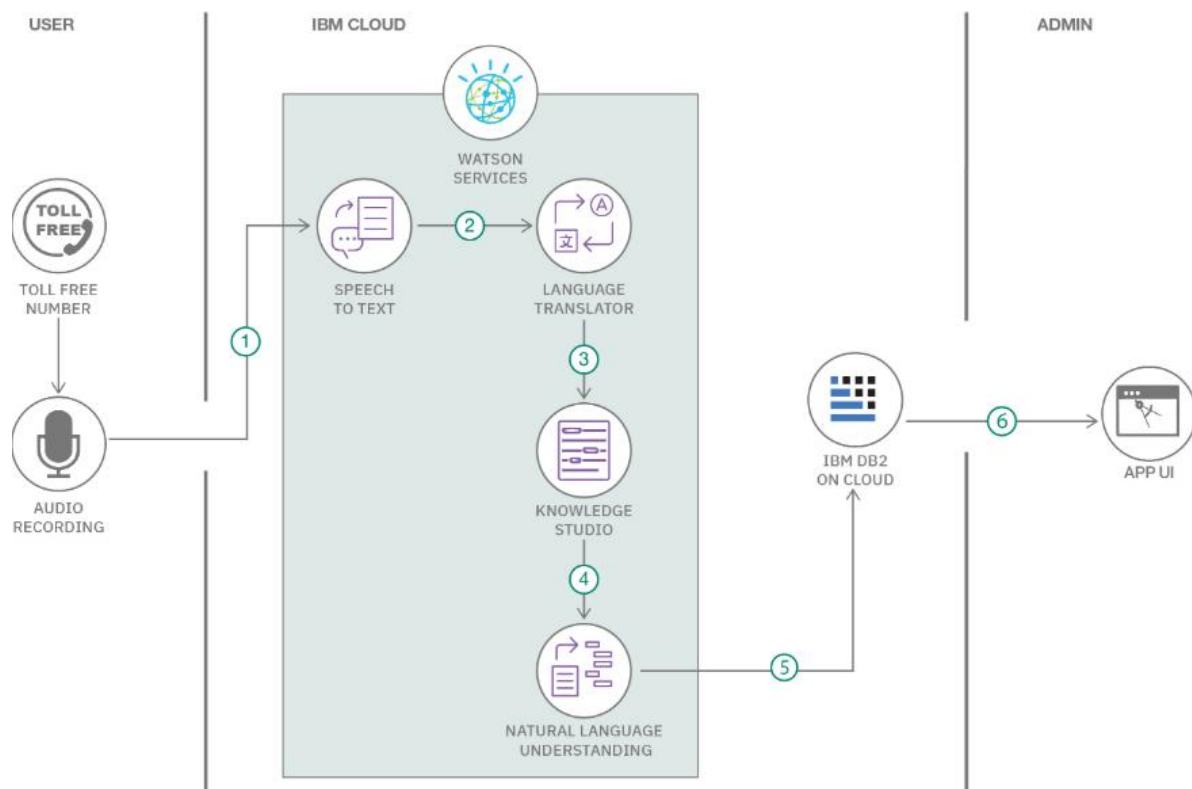
### Technology Stack (Architecture & Stack)

Date	31 January 3035
Team ID	LTVIP2025TMID25088
Project Name	CRM Application for jewel management
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



**Technology Stack for an E- commerce Application:**

S.NO	Component	Description	Technology
1	Frontend	User interface for customers	React. JS, Vue, JS, Angular
2	Backend	Server -side logic& APIs	Node.JS, python, java,
3	Database	Data storage	My SQL, PostgreSQL, MONODB
4	Cloud Database	Cloud-based storage	Firebase, AWS RDS, Azure Cosmos DB
5	Authentication	User login & authentication	Firebase Auth, OAuth, JWT
6	File storage	Storing images, videos & files	AWS S3, Google cloud storage
7	Payment Gateway	Payment processing	Stripe pay pal, Razorpay
8	External API	Third- party integrations	
9	Machine Learning model	AL- based recommendation system	
10	Infrastructure	Hosting & deployment	AWS eC2, Kubernetes, Docker

**Table-2: Application Characteristics:**

S.NO	Characteristics	Description	Technology
1	Micro service Architecture	Justify the modularity of services and independence of components	Kubernetes, Docker, API Gateway
2	Data encryption	Explain how sensitive data is secured	AES-256 TLS, SSL, Hashing Algorithms
3	Cross-platform support	Justify compatibility across multiple device and OS	React Native, Flutter, progressive Web Apps (PWA)
4	Fault Tolerance	Describe how the system handles failures and recovers	Auto-scaling, Load Balancers, Circuit Breaker pattern
5	User Experience (UX)	Design considerations for user- friendly interfaces	Material UI, Bootstrap, Tailwind CSS