

Project Design Phase-II

Technology Stack (Architecture & Stack)

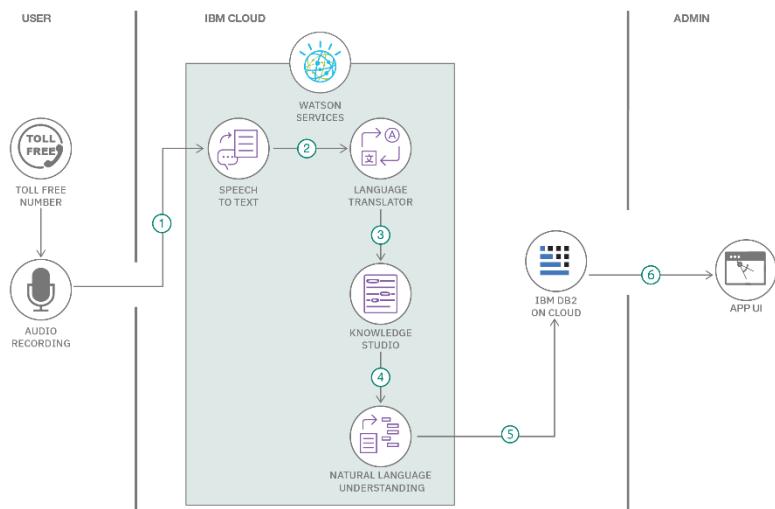
Date	1 February 2026
Team ID	LTVIP2026TMIDS39149
Project Name	Cafeteria Menu Display
Maximum Marks	4 Marks

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/>



Guidelines:

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

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	ServiceNow UI, Service Portal
2.	Application Logic-1	Business Rule to validate menu creation and status updates	ServiceNow Business Rules
3.	Application Logic-2	UI Action to change menu status to "Published"	ServiceNow UI Action (Server-side Script)
4.	Application Logic-3	Role-based access control for Admin and Users	ServiceNow Roles & ACL
5.	Database	Stores menu name, items, price, status	ServiceNow Custom Table (MySQL backend)
6.	Cloud Database	Database hosted on ServiceNow cloud platform	ServiceNow Cloud Instance
7.	File Storage	Stores attachments if any menu images uploaded	ServiceNow Attachment Storage
8.	External API-1	Not used in this project	Not Applicable
9.	External API-2	Not used in this project	Not Applicable
10.	Machine Learning Model	Not used in this project	Not Applicable
11.	Infrastructure (Server / Cloud)	: Application deployed on cloud instance	ServiceNow Cloud Infrastructure

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Platform-based development (low-code environment)	ServiceNow Platform
2.	Security Implementations	Role-based access, ACL, HTTPS secure login	ServiceNow Security, IAM
3.	Scalable Architecture	Cloud-based scalable architecture	ServiceNow Cloud

S.No	Characteristics	Description	Technology
4.	Availability	24/7 cloud availability	ServiceNow SaaS
5.	Performance	Optimized database queries and cloud hosting	ServiceNow Platform

References:

1. ServiceNow Official Documentation

<https://docs.servicenow.com>

2. ServiceNow Developer Portal

<https://developer.servicenow.com>

3. ServiceNow Community Forum

<https://community.servicenow.com>

4. ServiceNow Learning (Now Learning Platform)

<https://nowlearning.servicenow.com>

5. Service Portal Documentation

<https://docs.servicenow.com/bundle/tokyo-servicenow-platform/page/build/service-portal>

6. GlideRecord and Scripting in ServiceNow

<https://developer.servicenow.com/dev.do#!/learn>