

**Project Design Phase-II
Technology Stack (Arch**

itecture & Stack)	

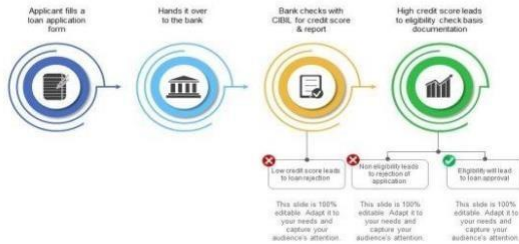
Date	08 October 2022
Team ID	PNT2022TMID10472
Project Name	Project- Smart Lender- Applicant Credibility for Loan Approval
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2 **Order processing during pandemics for online mode.**

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

Bank Loan Approval Process



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.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	Python with applied Data science
2.	Application Logic-1	Logic for a process in the application	Python with applied Data science
3.	Application Logic-2	Logic for a process in the application	Python with applied Data science
4.	Application Logic-3	Logic for a process in the application	Python with applied Data science
5.	Database	Data Type, Configurations etc.	Python

6.	Cloud Database	Database Service on Cloud	IBM DB2.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Bank API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Data science
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud etc.

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.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Microservices)	Technology used
S.No	Characteristics	Description	Technology
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) etc.	Technology used

References: <https://c4model.com/>

[https://developer.ibm.com/pattern](https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/)

[s/online-order-processing-](https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/)

[system-during-pandemic/](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>