Project Design Phase - II

Solution Requirements (Functional & Non-functional)

Team ID	PNT2022TMID15942
Project Name	Smart Lender - Applicant Credibility Prediction for Loan Approval

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration via filling online application forms by Bank Official
FR-2	User Confirmation	Confirmation by Document Verification
FR-3	Log in to system	Check Credentials Check Roles of Access.
FR-4	Manage Modules	Manage System Admins Manage Roles of User Manage User permission
FR-5	Check whether details	Customer Details whether check Credit score and Employment status
FR-6	Log out	Exit

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The prediction model not only helps the applicant but also helps the bank by minimizing the risk and reducing the number of defaulters.
NFR-2	**Security**	Sensitive and private data must be protected from their production in Database server by using the different application results in high security.
NFR-3	**Reliability**	The shared protection achieves a better trade-off between costs and reliability. The model uses dedicated and shared protection schemes to avoid cyber-attack

NFR-4	**Performance**	A data science approach to predict and understand the applicant's profile to minimize the risk of future loan defaults and maximize the predictive capability of deeply understanding the past customer's profile minimizing the risk of future loan defaults.
NFR-5	**Availability**	The company wants to automate the loan eligibility process (real-time) based on customer detail provided while filling out online application forms. These details are Gender, Marital Status, Education, number of Dependents, Income, Loan Amount, Credit History, and others.
NFR-6	**Scalability**	Scalability is a major concern for Data science. It has shown that different architectural choices of Machine Learning affect system scalability and find the complete details of the customers.