Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID13268
Project Name	Smart Lender Applicant Credibility Prediction for Loan Approval
Maximum Marks	2 Marks

Proposed Solution:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Running an online lending organization in the digital age can be widely complex. Sanctioning loans, Transaction and Other lending prospects over internet need to encourage qualified and credibility. But By engaging several factors and making predictive decisioning model on deciding justification of credibility of loan approval by reducing their consumption of time. Henceforth, provides the efficient way of evaluation progress.
2.	Idea / Solution description	Our Solution presents Machine Learning techniques (Naïve Bayes Algorithm) which can be used to perform such classifications of the entity as they are very crucial and useful in the prediction of these types of structured data. Classification algorithms such as Naïve Bayes Algorithm, Decision tree, Random-forest, KNN, Xgboost and SVM is used. The train-test split data is trained and tested with these algorithms and finally, the predictive model is selected and saved in pkl format. Then, flask integration and IBM cloud DB2 storage deployment is done.
3.	Novelty / Uniqueness	The Solution model is used to get intact with the satisfactory classification of predicting individual loan application.
4.	Social Impact / Customer Satisfaction	This application helps for the ease of time efficient constraint both from the Debator and Money Lender in huge number of application.
5.	Business Model (Revenue Model)	This application is used on the basis of subscription constraint on the bank prospects and leverage most of the debator at one cost of instance.
6.	Scalability of the Solution	The User Interface of the application is the integration of flask interface templates. The pickle model is the integration of deployment templates. The bank end uses the flask integration. features can be implemented and new pages can be added easily.