**Project Design Phase-I**

**Proposed Solution Template**

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| Date | 1 November 2022 |
| Team ID | PNT2022TMID13268 |
| Project Name | Smart Lender Applicant Credibility Prediction for Loan Approval |
| Maximum Marks | 4 Marks |

**Milestone and Activities:**

**MILESTONE 1-** Installing Required Libraries.

**MILESTONE 2**- Data Collection.

**ACTIVITIES**

* Collect the Dataset

**MILESTONE 3-** Data Pre-Processing.

**ACTIVITIES**

* Importing the Libraries.
* Importing the Datasets.
* Understanding Data Type and Summary of features.
* Taking care of missing data.
* Data Visualization.
* Drop the column from data Frame & replace the missing value.
* Splitting the Dataset into Dependent and Independent variables.
* Splitting data into Train and Test.

**MILESTONE 4**- Model Buliding

**ACTIVITIES**

* Naive Bayes Model
* Decision Tree Model
* KNN Model
* Comparing of Models
* Evaluating the performance of Model
* Saving the Models

**MILESTONE 5-** Application Building

**ACTIVITIES**

* Building Html pages
* Build Python Code
* Run the Application

**MILESTONE 6**- Final UI

**ACTIVITIES**

* Dashboard of the flask app

**MILESTONE 7**- Train the Model on IBM

**ACTIVITIES**

* Registering for IBM
* Training the ML model on IBM
* Integrate Flask with Scoring End Point