**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 16 October 2022 |
| Team ID | PNT2022TMID35965 |
| Project Name | Smart Lender - Applicant Credibility Prediction for Loan Approval |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through entering details such as name,email ,password,phone number,etc. |
| FR-2 | User Login | Login using the registered email id and password. |
| FR-3 | Model Building | Build various machine learning model to predict Applicant Credibility and compare them. |
| FR-4 | Check Details | Get the user details and display if the user has credibility for loan approval or not. |
| FR-5 | Integration | Integrate the front end and the developed ML model using Flask. |
| FR-6 | Alert Message | Notify the user through email or phone regarding the loan approval. |

**Non-functional Requirements:**

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

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Any valid user data must be accepted for prediction. |
| NFR-2 | **Security** | Alert message must be sent to the users. |
| NFR-3 | **Reliability** | Loan approval of applicant must be predicted accurately and the result must be reliable. |
| NFR-4 | **Performance** | The performance and interface must be user friendly. |
| NFR-5 | **Availability** | Anyone who has the valid bank account. |
| NFR-6 | **Scalability** | It must be able to handle increase in the number of users. |