

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

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| Date | 17 October 2022 |
| Team ID | PNT2022TMID13791 |
| Project Name | Project - Smart Lender - Applicant Credibility Prediction for Loan Approval |
| Maximum Marks | 4 Marks |

Functional Requirements:

Following are the functional requirements of the proposed solution.

- ❖ A functional requirement defines a function of a system or its component, where a function is described as a specification of behavior between inputs and outputs.
- ❖ It specifies “what should the software system do?”
- ❖ It is mandatory
- ❖ Defined at a component level
- ❖ Usually easy to define
- ❖ Helps you verify the functionality of the software

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|--------|-------------------------------|--|
| FR-1 | User Registration | Registration through Form Registration through Gmail Registration through LinkedIn |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | User Application | Filling of application Modification of application Verification of application |
| FR-4 | Loan Issuance | Checking status of loan Loan Approval Loan Rejection |
| FR-5 | Credit history analysis | Credit score auditing Income auditing |
| FR-6 | User management | Choosing appropriate loan program for users Categorising users according to credit history. |

Non-functional Requirements:

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

- ❖ A non-functional requirement defines the quality attribute of a software system
- ❖ It places constraint on “How should the software system fulfil the functional requirements?”
- ❖ It is not mandatory
- ❖ Applied to system as a whole
- ❖ Usually more difficult to define

- ❖ Helps you verify the performance of the software

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|--|
| NFR-1 | Usability | Customers can use the application in almost all the web browsers. Application is with good looking and detailed UI, which makes it more friendly to use. |
| NFR-2 | Security | Customers are asked to create an account for themselves using their email which is protected with an 8 character-long password, making it more secure |
| NFR-3 | Reliability | Customers can raise their queries and will be replied with a valid reply, as soon as possible, making the application even more reliable and trust-worthy. |
| NFR-4 | Performance | Customers will have a smooth experience while using the application, as it is simple and is well optimized. |
| NFR-5 | Availability | Application is available 24/7 as it is hosted on IBM Cloud |
| NFR-6 | Scalability | In future, may be cross-platform mobile applications can be developed as the user base grows. |

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| NFR-5 | Availability | Platform independent support. |
| NFR-6 | Scalability | Can operate efficiently across multiple devices with varying hardware and software specifications. |