**Project Design Phase-II**

# **FUNCTIONAL REQUIREMENTS**

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| Date | 27 October 2022 |
| Team ID | PNT2022TMID12919 |
| Project Name | Project-Statistical Machine Learning  Approaches to Liver Disease Prediction |
| 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 form present in liver disease  prediction website |
| FR-2 | User Confirmation | Confirmation done via registered Email |
| FR-3 | Prediction | Based on the data entered (like age, gender, and symptoms)  the type of liver disease is predicted. |
| FR-4 | Hardware Requirements | Intel i3 core processor Internet Connectivity |
| FR-5 | Software Requirements | Windows 7 or higher Python 3.6.0 or higher Visual Studio Code Dataset  Jupiter notebook |
| FR-6 | Database Retrieval | Data is retrieved from the database |

# Non-functional Requirements:

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

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| **NRF.NO** | **Non-Functional Requirement** | **Description** |
| NRF-1 | Usability | Death rate is decreased as the disease is predicted early |
| NRF-2 | Security | Ensures all data in the system is protected |
| NRF-3 | Reliability | Provides secured storage of data and access |
| NRF-4 | Performance | Performance is high as various Machine learning classification algorithms are used to find the best and accurate model. |
| NRF-5 | Availability | Accessible to all the users. |
| NRF-6 | Scalability | It is acceptable to fit over any place and any resources. |