**Project Design Phase-II**

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

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| Date | 30 June 2025 |
| Team ID | LTVIP2025TMID35420 |
| Project Name | Revolutionizing Liver Care : Predicting Liver Cirrhosis Using Advanced Machine Learning Techniques |
| 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 | Patient Data Input | Input via Form Input via Uploaded Reports |
| FR-2 | Machine Learning Prediction | Model loads patient data Generates prediction result |
| FR-3 | Result Display | Display prediction to user Show confidence score |
| FR-4 | Doctor Recommendation | Provide next steps Allow download of report |

**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 | The UI must be clean, simple, and accessible. |
| NFR-2 | Security | Patient data should be encrypted and securely stored. |
| NFR-3 | Reliability | The system must consistently return accurate results. |
| NFR-4 | Performance | Predictions should be returned within 3 seconds. |
| NFR-5 | Availability | The system should maintain 99.9% uptime. |
| NFR-6 | Scalability | Must support increase in user and data volume. |