**Project Design Phase-II**

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

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| **Date** | **24 June 2025** |
| **Team ID** | **LTVIP2025TMID20425** |
| **Project Name** | **LearnHub: Your Center for Skill Enhancement** |
| **Mentor Name** | **Dr Shaik Salma Begam** |
| **Maximum Marks** | **4 Marks** |

**Functional Requirements**

## **Functional Requirements of the Proposed Solution – LearnHub**

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | **User Registration** | - Registration through Form - Registration using Google - Registration using LinkedIn |
| FR-2 | **User Confirmation** | - Confirmation via Email - Confirmation via OTP (optional for mobile users) |
| FR-3 | **Course Browsing & Search** | - Browse Courses by Category - Search Courses - Filter by Price, Category, Instructor |
| FR-4 | **Enrollment & Progress Management** | - Enroll in Course - Track Lesson Completion - View Progress Dashboard |
| FR-5 | **Certificate Management** | - Generate Certificate upon Completion - Download Certificate (PDF) |
| FR-6 | **Instructor Management** | - Add/Edit/Delete Courses - Upload Video Lessons and Resources |
| FR-7 | **Admin Management** | - Manage Users (Students & Instructors) - Approve Courses - View Reports |

## **Non-Functional Requirements of the Proposed Solution – LearnHub**

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| **NFR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | The platform should have an intuitive and user-friendly UI for all roles (students, instructors, admins). |
| NFR-2 | **Security** | All user data and course content must be protected using **JWT**, **HTTPS**, and role-based access control. |
| NFR-3 | **Reliability** | The system should be robust with **error handling**, ensuring data integrity and availability. |
| NFR-4 | **Performance** | Fast page loads and API responses even during **peak usage** or concurrent course activity. |
| NFR-5 | **Availability** | The platform should be **accessible 24/7** with minimal downtime, especially during exams or deadlines. |
| NFR-6 | **Scalability** | The system should handle growth in **users, courses, and concurrent logins** without affecting performance. |