**Project Design Phase-II**

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

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| Date | 23 June 2025 |
| Team ID | LTVIP2025TMID56697 |
| Project Name | LearnHub: Your Center for Skill Enhancemen |
| 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 Email & Password |
|  |  | Registration through Gmail |
| FR-2 | User Confirmation | Confirmation via Email |
|  |  | Confirmation via OTP |
| FR-3 | Role-Based Dashboard | Student Dashboard |
|  |  | Teacher Dashboard |
|  |  | Admin Panel |
| FR-4 | Course Management | Course Creation (Teacher) |
|  |  | Course Enrollment (Student) |
|  |  | Course Approval & Monitoring (Admin) |
| FR-5 | Code Practice & Quiz | Practice Editor (Student) |
|  |  | Quiz Attempt & Evaluation (Student) |
| FR-6 | Certification | Generate & Download Certificate |
| FR-7 | Analytics & Monitoring | View Analytics (Admin/Teacher) |
| FR-8 | Multi-language Support | i18n Support (English, Hindi) |

**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 platform should have an intuitive and responsive UI for all user roles. |
| NFR-2 | Security | Secure login, authentication, and encrypted data storage (JWT, HTTPS). |
| NFR-3 | Reliability | The system should be consistently available and handle role-based access reliably. |
| NFR-4 | Performance | Fast load times and minimal latency even during high traffic. |
| NFR-5 | Availability | 24/7 availability with automatic scaling on cloud infrastructure. |
| NFR-6 | Scalability | Easily scalable to support growing user base, courses, and role types. |