**Project Design Phase-II**

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

|  |  |
| --- | --- |
| Date | 22 May 2025 |
| Team ID | LTVIP2025TMID57521 |
| Project Name | LearnHub |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | Educators create courses | Create chapters, add pages in chapters, upload videos |
| FR-2 | Learners enroll in courses | Students enroll in course, complete chapters, track progress |
| FR-3 | Certificate generation | Certificate gets generated upon course completion |
| FR-4 | Assessment and Progress Tracking | Teacher can upload quizzes/tests for each module. |
| FR -5 | Communication and Announcements | Admin can post announcements on course page. |
| FR -6 | Authentication and Security | Teacher must register and login with secure credentials. |

**Non-functional Requirements:**

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

|  |  |  |
| --- | --- | --- |
| **NFR No.** | **Non-Functional Requirement** | **Description** |
| **NFR-1** | **Usability** | The app should have an intuitive and user-friendly interface, ensuring smooth navigation and accessibility for users of all demographics. |
| **NFR-2** | **Security** | User authentication and data must be secured using encryption (e.g., HTTPS, OAuth for third-party logins). The app should prevent unauthorized access and follow best security practices. |
| **NFR-3** | **Reliability** | The app should ensure a consistent and uninterrupted music streaming experience, minimizing crashes and downtime. |
| **NFR-4** | **Performance** | Courses should load and stream with minimal buffering. The app should respond to user interactions (search, playback, course management) within 2 seconds. |
| **NFR-5** | **Availability** | The system should maintain an uptime of at least 99.9%, ensuring accessibility across different time zones. |
| **NFR-6** | **Scalability** | The application should handle increasing numbers of users and concurrent streams efficiently without performance degradation. The architecture should support future feature expansion. |