

## Project Design Phase-II

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

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

#### Functional Requirements

Functional Requirements of the Proposed Solution – LearnHub

| FR No. | Functional Requirement (Epic)               | Sub Requirement (Story / Sub-Task)  |
|--------|---|---|
| FR-1   | <b>User Registration</b>                    | <ul style="list-style-type: none"><li>- Registration through Form</li><li>- Registration using Google</li><li>- Registration using LinkedIn</li></ul> |
| FR-2   | <b>User Confirmation</b>                    | <ul style="list-style-type: none"><li>- Confirmation via Email</li><li>- Confirmation via OTP (optional for mobile users)</li></ul>                   |
| FR-3   | <b>Course Browsing &amp; Search</b>         | <ul style="list-style-type: none"><li>- Browse Courses by Category</li><li>- Search Courses</li><li>- Filter by Price, Category, Instructor</li></ul> |
| FR-4   | <b>Enrollment &amp; Progress Management</b> | <ul style="list-style-type: none"><li>- Enroll in Course</li><li>- Track Lesson Completion</li><li>- View Progress Dashboard</li></ul>                |
| FR-5   | <b>Certificate Management</b>               | <ul style="list-style-type: none"><li>- Generate Certificate upon Completion</li><li>- Download Certificate (PDF)</li></ul>                           |
| FR-6   | <b>Instructor Management</b>                | <ul style="list-style-type: none"><li>- Add/Edit/Delete Courses</li><li>- Upload Video Lessons and Resources</li></ul>                                |
| FR-7   | <b>Admin Management</b>                     | <ul style="list-style-type: none"><li>- Manage Users (Students &amp; Instructors)</li><li>- Approve Courses</li><li>- View Reports</li></ul>          |

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

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