**Requirement Gathering and Analysis Phase**

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

|  |  |
| --- | --- |
| Date |  |
| Team ID | SWTID1720278137 |
| Project Name | Project – Online Learning Platform |
| Maximum Marks |  |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form  Registration through Gmail |
| FR-2 | User Login | Login through form |
| FR-3 | Course Selection | Course browsing and enrolment |
| FR-4 | Learning Management | Accessing course materials, videos, assignments |
| FR-5 | Payment Processing | Seamless payment process when enrolling in paid courses. |
| FR-6 | User Progress Tracking | Viewing and updating profile information, tracking learning progress. |

**Non-functional Requirements:**

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Website must have an intuitive and user-friendly interface, and must be accessible to users with disabilities. Also, it must be fully responsive. |
| NFR-2 | **Security** | The website must ensure data protection using encryption, access control, vulnerability management, and incident response to handle security breaches. |
| NFR-3 | **Reliability** | The website must use redundant data storage solutions, regularly back up all critical data, and implement comprehensive error handling and logging. |
| NFR-4 | **Performance** | The website must load within 2 seconds for 95% of user interactions. API responses should have a latency of less than 200 milliseconds. The system must be capable of handling at least 1,000 concurrent users without performance degradation. |
| NFR-5 | **Availability** | The website must have an uptime of 99.9% or higher and should schedule maintenance during off-peak hours to minimize user impact. |
| NFR-6 | **Scalability** | The website must be designed to support horizontal scaling allowing addition of more servers, and accommodate future growth and integration of new features. |