**Lab 1.3**

**Requirements Linkage Traceability Matrix**

| **Requirement ID** | **Functional Requirement** | **Non-Functional Requirement** | **Source** | **Stakeholder** | **Test Case ID** | **Proposed Change** | **Release Version** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| REQ-001 | User can log in to the e-learning platform | Security: User authentication | User Stories | User | TC-001 | Change in login mechanism | 1.0 |
| REQ-002 | User can enroll in a course | Performance: Response time for course enrollment | Business Requirements Document | User | TC-002 | Increase response time for course enrollment | 2.0 |
| REQ-003 | User can access video lessons | Content: Video quality and streaming speed | Course Design Document | User, Instructor | TC-003 | Add support for downloadable lecture materials | 1.0 |
| REQ-004 | User can participate in quizzes | Usability: Intuitive quiz interface | User Stories | User | TC-004 | Improve quiz navigation | 2.0 |
| REQ-005 | Instructor can create new course content | Scalability: Ability to handle large course content | Instructor Requirements | Instructor | TC-005 | Allow multimedia content in course modules | 1.0 |

**Requirements Source Traceability Matrix**

| **Requirement ID** | **Source** |
| --- | --- |
| REQ-001 | User Stories |
| REQ-002 | Business Requirements Document |
| REQ-003 | Course Design Document |
| REQ-004 | User Stories |
| REQ-005 | Instructor Requirements |

**Requirements Stakeholder Traceability Matrix**

| **Requirement ID** | **Stakeholder** |
| --- | --- |
| REQ-001 | User |
| REQ-002 | User |
| REQ-003 | User, Instructor |
| REQ-004 | User |
| REQ-005 | Instructor |

**Requirements Test Traceability Matrix**

| **Requirement ID** | **Test Case ID** | | |
| --- | --- | --- | --- |
| REQ-001 | TC-001 | | |
| REQ-002 | TC-002 | | |
| REQ-003 | | TC-003 |
| REQ-004 | | TC-004 |
| REQ-005 | | TC-005 |

**Requirements Change Traceability Matrix**

| **Requirement ID** | **Proposed Change** |
| --- | --- |
| REQ-001 | Change in login mechanism |
| REQ-002 | Increase response time for course enrollment |
| REQ-003 | Add support for downloadable lecture materials |
| REQ-004 | Improve quiz navigation |
| REQ-005 | Allow multimedia content in course modules |

**Requirements Release Traceability Matrix**

| **Requirement ID** | **Release Version** |
| --- | --- |
| REQ-001 | 1.0 |
| REQ-002 | 2.0 |
| REQ-003 | 1.0 |
| REQ-004 | 2.0 |
| REQ-005 | 1.0 |