REQUIREMENTS Traceability Matrix

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LEARning management system FOR SYS college

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1. **Requirement Traceability Matrix (RTM)**

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| --- | --- | --- | --- | --- | --- |
| # | BR ID | REQUIREMENT | FR ID | Use Case | Test Case |
| 1 | BR-01 | Faculty can create and manage course content and assessments | FR-CM-01 to FR-CM-04, FR-AA-01 to FR-AA-05 | Create Course, Manage Course, Upload Content, Manage Grades |  |
| 2 | BR-02 | Students can access content, view courses, and submit assignments | FR-CD-01 to FR-CD-04, FR-AA-02 | View Content, View Courses, Submit Assignment |  |
| 3 | BR-03 | Admin staff can enroll students and manage course schedules | FR-ES-01 to FR-ES-04 | Enroll Student, Manage Schedule |  |
| 4 | BR-04 | Department heads can access dashboards and performance analytics | FR-AR-01 to FR-AR-03 | View Dashboard, Analyze Performance |  |
| 5 | BR-05 | Secure authentication and role-based access | FR-UM-01 to FR-UM-04 | Register, Login |  |
|  | BR-06 | System integrates with SIS, AD, and Turnitin | FR-ES-01, FR-UM-02, FR-AA-03 | Authentication, Sync Students, Check Plagiarism |  |
|  | BR-07 | System is mobile-friendly and accessible | FR-CD-04, FR-UM-01 | All Student & Faculty Interfaces |  |
|  | BR-08 | |  | | --- | |  |  |  | | --- | | Admin staff can generate compliance and audit reports | | FR-RP-01 to FR-RP-04 | Generate Reports, Monitor Compliance |  |

**BR =** Business Requirement

The functional requirements for the Learning Management System (LMS) at Sys College are derived from stakeholder interviews and business goals identified in the Business Requirements Document (BRD). These requirements define how the system should behave in support of core academic and administrative processes. The LMS will support the following high-level functional capabilities:

* 1. **User Management**