LEARning management system FOR SYS college

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BUSINESS REQUIREMENT DOCUMENT

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1. **Author Change Control & Approvers**

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**Reviewed By:** [Reviewer Name Here]

**Approved By:** [Approver Name Here]

1. **Executive Summary**

This BRD outlines the business needs, goals, and high-level requirements for implementing a modern Learning Management System (LMS) at Sys College. This system aims to support strategic objectives such as improving teaching quality, increasing student engagement, and enabling digital transformation across campuses. The document is informed by stakeholder interviews and aligned with institutional priorities.

1. **Glossary**

|  |  |  |
| --- | --- | --- |
| # | Term | definition |
| 1 | LMS | Learning Management System |
| 2 | SIS | Student Information System |
| 3 | RBAC | Role-Based Access Control |
| 4 | SSO | Single Sign-On |
| 5 | KPI | Key Performance Indicators |

1. **User Personas**
   1. **Lecturers / Tutors**: Deliver course content and manage assessments
   2. **Students**: Consume learning materials, submit assignments
   3. **Admin Staff**: Manage enrollments, scheduling, records
   4. **Department Heads**: Monitor academic progress, resource utilization
   5. **IT Staff**: Manage integration, security, infrastructure
   6. **Executives (VPs)**: Monitor KPIs, strategic alignment, funding
2. **Business Goals**
   1. Deliver a superior student learning experience
   2. Increase teaching quality and academic effectiveness
   3. Support data-driven decision-making across departments
   4. Streamline academic and administrative operations
   5. Enable digital and remote learning across campuses
3. **Project Overview & Objectives**
   1. **Overview**

The LMS project is part of Sys College's strategic vision to lead in teaching excellence. The system will centralize learning activities, enable performance tracking, and improve communication among faculty, students, and administrators.

* 1. **Objectives**
     1. Implement a cloud-based LMS with role-based access
     2. Provide integration with SIS, Active Directory, and HRMS
     3. Enable dashboards for monitoring engagement and performance
     4. Support mobile and offline access to content
     5. Automate grading, attendance, and notifications

1. **Project Scope**
   1. **In Scope**
      1. Centralized content management and learning modules
      2. Assignment submissions and grading workflows
      3. Real-time dashboards and analytics
      4. Mobile and offline access
      5. Integration with core systems (SIS, AD)
      6. Role-based access and permissions
   2. **Out of Scope**
      1. Physical infrastructure upgrades
      2. Third-party course content creation
      3. External certification or accreditation platforms
2. **Success Criteria**
   1. **85%** adoption rate within one academic term
   2. Reduction in grading and reporting time by **40%**
   3. Student satisfaction score improvement by **25%**
   4. **Real-time visibility** of academic KPIs
3. **Current State**
   1. Fragmented tools: emails, shared drives, physical materials
   2. Manual tracking of attendance, grading, and progress
   3. No unified view of course performance or engagement
4. **Target State**
   1. Centralized, secure LMS platform with integrated tools
   2. Automated workflows and unified communication channels
   3. Role-specific dashboards for faculty, students, and executives
5. **RAID (Risks, Assumptions, Issues, Dependencies)**

|  |  |
| --- | --- |
| Type | Description |
| Risk | Resistance to change from senior faculty |
| Assumption | Staff and students will have basic digital literacy |
| Issue | Integration delays with legacy systems |
| Dependency | SIS, HRMS, AD system compatibility |

1. **Major Requirements**

Major requirement will be enlisted later… along with **System requirement matrix**

1. **Business Rules**
   1. Only faculty can modify course content
   2. Students can view only their enrolled modules
   3. Attendance must be auto-logged for every session
2. **Data Privacy & Security Requirements**
   1. Compliance with GDPR and national education data policies
   2. Multi-factor authentication and SAML-based SSO
   3. Encrypted data storage and secure user sessions
3. **Accessibility Considerations**
   1. WCAG 2.1 compliant UI for visually impaired users
   2. Keyboard navigability and screen reader compatibility
   3. Mobile responsiveness
4. **Business Process Flow**
   1. [Insert high-level diagram showing: Course Creation → Enrollment → Content Delivery → Assessment → Feedback → Reporting]
5. **Reports & KPI**
   1. Faculty performance dashboard
   2. Student engagement & retention reports
   3. Real-time grading summaries
   4. Assignment submission compliance

**Appendix A**

**SYSTEM REQUIREMENTS MATRIX**

|  |  |  |  |
| --- | --- | --- | --- |
| # | Requirement | Stakeholder Group | Department / Function |
| 1 | Centralized course content and learning material management | Academic Staff, Students | Faculty / Academic Affairs |
| 2 | Student progress tracking and performance analytics | Faculty, Dept. Heads, Execs | Academic, Quality Assurance |
| 3 | Automated assignment submission and grading workflows | Faculty, Admin Staff | Academic Operations |
| 4 | Mobile-friendly interface and offline access | Students | Student Affairs / IT |
| 5 | Push notifications and alerts for deadlines/grades | Students, Faculty | Academic Affairs / Communications |
| 6 | Role-based access control (RBAC) | IT Department, Execs | IT / Information Security |
| 7 | Real-time dashboards and academic reporting | Department Heads, Executives | Academic Affairs / Strategic Planning |
| 8 | Integration with SIS, HRMS, and Active Directory | IT Department | IT / Infrastructure |
| 9 | Cloud-based hosting with backup and scalability | IT Department, Executives | IT / Digital Transformation |
| 10 | Audit trails for grades, attendance, and system activity | Admin Staff, QA Officers | Compliance / QA |
| 11 | Multi-campus support and scalability | Executives, IT Dept. | Institutional Planning / IT |
| 12 | KPI tracking for retention, engagement, and teaching output | Executives, Academic Managers | Strategic Leadership / Inst KPIs |
| 13 | Secure authentication (SSO, MFA, SAML) | IT Department | Information Security |
| 14 | User training and change management support | Academic Staff, Admin Staff | HR / Professional Development |

Table A1: System Requirements Matrix

This matrix outlines the high-level functional requirements identified through stakeholder interviews, mapping each requirement to its corresponding stakeholder group and functional department to ensure traceability and alignment with institutional needs.