Student Portal Requirements Specification

# Functional Requirements

ID: FR-001

Description: The system shall allow students to register and create user accounts.

Priority: High

Source: Stakeholder (Students)

Status: Pending

ID: FR-002

Description: The system shall allow students to enroll in courses and view their schedule.

Priority: High

Source: Stakeholder (Students)

Status: Pending

ID: FR-003

Description: The system shall provide an interface for instructors to manage course content and student enrollments.

Priority: High

Source: Stakeholder (Instructors)

Status: Pending

ID: FR-004

Description: The system shall support login with multi-factor authentication to enhance security.

Priority: High

Source: Stakeholder (Admins)

Status: Pending

ID: FR-005

Description: The system shall generate and export reports in PDF and CSV formats for administrative purposes.

Priority: Medium

Source: Stakeholder (Admins)

Status: Pending

# Non-Functional Requirements

ID: NFR-001

Description: The system shall process user requests within 2 seconds under normal load conditions.

Priority: High

Source: System (Performance)

Status: Pending

ID: NFR-002

Description: The system shall be able to scale to handle 100,000 concurrent users without degradation in performance.

Priority: High

Source: System (Scalability)

Status: Pending

ID: NFR-003

Description: The system shall encrypt all sensitive data at rest and in transit using AES-256 encryption.

Priority: High

Source: Security Requirement

Status: Pending

ID: NFR-004

Description: The system shall comply with GDPR and FERPA data protection regulations.

Priority: High

Source: Regulatory Compliance

Status: Pending

ID: NFR-005

Description: The system shall have an uptime of 99.9% to ensure high availability.

Priority: High

Source: System (Availability)

Status: Pending

# Constraints

ID: C-001

Description: The system must be built using a LAMP stack (Linux, Apache, MySQL, PHP).

Priority: High

Source: Technical Constraints

Status: Pending

ID: C-002

Description: The portal must be developed and delivered within 12 months from project initiation.

Priority: High

Source: Project Timeline

Status: Pending

ID: C-003

Description: The development budget shall not exceed $500,000.

Priority: High

Source: Budget Constraints

Status: Pending

ID: C-004

Description: The system must comply with accessibility standards (WCAG 2.1).

Priority: Medium

Source: Regulatory Compliance

Status: Pending