

# Learning Management System

---

## Business Requirements Document (BRD) for Learning Management System

### 1. Introduction

This Business Requirements Document (BRD) outlines the requirements for the Learning Management System (LMS) application to be developed using Laravel 11. The LMS will facilitate online learning by enabling instructors to create and manage courses and allowing students to enroll and track their progress.

### 2. Project Scope

The LMS will include the following key features:

- User Authentication
- Course Management
- Enrollment and Progress Tracking
- Quizzes and Assignments
- Discussion Forums
- Notifications and Announcements
- Analytics Dashboard

### 3. Learning Objectives

As part of this project, the following Laravel concepts will be learned:

- Routing and Controllers
- Models and Eloquent ORM
- Middleware and Authentication
- Blade Templating
- Form Validation
- File Storage
- Notifications and Testing

### 4. Target Audience

The primary users of the LMS will include:

- **Students:** Individuals looking to enroll in courses and enhance their skills.
- **Instructors:** Educators who will create and manage course content.
- **Administrators:** Users who will manage the overall platform and user permissions.

### 5. Features and Requirements

#### 5.1 User Authentication

- Users must be able to register, log in, and log out.
- Implement role-based access control for different user types.

## **5.2 Course Management**

- Instructors can create, update, and delete courses with lessons.
- Courses should include multimedia resources (videos, PDFs).

## **5.3 Enrollment and Progress Tracking**

- Students can enroll in courses and track their progress.
- Display course completion status.

## **5.4 Quizzes and Assignments**

- Support multiple question types for quizzes (MCQ, essays).
- Allow assignment submission and instructor grading.

## **5.5 Discussion Forums**

- Enable discussions within each course for student interaction.
- Include moderation features for instructors.

## **5.6 Notifications**

- Implement a notification system for course updates and deadlines.

## **5.7 Analytics Dashboard**

- Provide analytics for instructors to track student engagement and performance.

## **6. Timeline**

The estimated timeline for the development of the LMS is as follows:

- Phase 1: Requirements Gathering (1 Week)
- Phase 2: Design and Prototyping (2 Weeks)
- Phase 3: Development (6 Weeks)
- Phase 4: Testing (2 Weeks)
- Phase 5: Deployment (1 Week)

## **7. Conclusion**

This BRD serves as a foundation for the development of the Learning Management System. It outlines the features and requirements necessary for the successful implementation and delivery of the project.