

# PHP & Laravel Backend Engineering

## Week 1: PHP Fundamentals I

This lecture introduces the fundamentals of PHP programming, focusing on syntax, variables, data types, operators, control flow, and looping structures. The goal is to build a strong foundation for backend development.

### ***Learning Objectives***

- 1 Understand PHP syntax and execution flow
- 2 Use variables and data types correctly
- 3 Apply operators and conditional logic
- 4 Implement loops for repetitive tasks
- 5 Build a basic PHP-based project

### ***Key Topics Covered***

- 1 PHP Introduction and Setup
- 2 Variables and Data Types
- 3 Operators
- 4 Conditional Statements (if, else, switch)
- 5 Loops (for, while, foreach)

### ***Mini Project: Student Result Checker***

Students will build a PHP script that accepts scores and determines grades using conditional logic.

### ***Assessment***

Project Presentation & Code Review