PROJECT ABSTRACT

Driving School Slot Booking and Lesson Tracker

A web portal for motor training schools: students book practice slots by day, time and instructor, follow a graded 12-lesson syllabus, and track RTO test-readiness from instructor grades. Delivered built-to-order with portal source, database schema, seeded demo data, report, PPT and viva kit.

Title

Driving School Slot Booking and Lesson Tracker — a slot-booking and lesson-tracking portal for driving schools, combining a conflict-free booking engine with a graded curriculum tracker.

Introduction / Background

Learning to drive in India still runs on paper registers and phone calls. Students call the school to book each practice slot, instructors keep lesson progress in notebooks, and nobody can see at a glance who is actually ready for the RTO test. Slots get double-booked, lessons are forgotten, and test-day failures arrive as a surprise. A driving school is fundamentally a scheduling business with a training pipeline underneath — which makes it an excellent web project: it needs real booking logic (day × time × instructor × car), a structured curriculum with graded milestones, and two very different user views for students and instructors.

Problem Statement

Manual slot booking causes double-bookings and no-shows; paper lesson records give students no visibility into their own progress; and instructors cannot quantify test-readiness, so RTO test slots are wasted on under-prepared candidates. The project addresses this with a portal where every booking is a conflict-checked database record, every lesson carries an instructor grade and remark, and a readiness meter aggregates grades into the specific skills examiners test.

Objectives

- Implement a slot-booking engine with per-slot capacity and transactional double-booking prevention.
- Provide instructor profiles (experience, rating, languages, assigned car) for informed choice.
- Model the 12-lesson syllabus as a sequential state machine with per-lesson grades and remarks.
- Compute an RTO test-readiness meter mapping lesson grades to parking, hill-start and lane-discipline skills.
- Support one-action rescheduling with instant reflection across dashboard and weekly schedule.
- Record theory and 8-track mock-test results feeding the readiness calculation.

Proposed Methodology

The data model centres on bookings (student, day, slot, instructor), lessons (sequence, grade, remark) and readiness weights. Booking writes run inside a database transaction that re-checks remaining slot capacity, so concurrent confirmations cannot oversell a seat. Lessons unlock sequentially: lesson N+1 becomes bookable only after lesson N is graded. Readiness is a weighted aggregation of instructor grades mapped to RTO test skills, with weak areas flagged — the weighting table is documented in the report as design logic, not a certified predictor.

System Architecture / Working

Three roles (student, instructor, admin) share one database. Students see a dashboard (next lesson, progress ring, weekly schedule), a three-step booking flow (day → time → instructor) and the lesson tracker. Instructors grade lessons through a simple form. The readiness engine recomputes on every grade write. The demo ships seeded with one school, three instructors, dual-control cars and 40+ bookings so every screen is explorable immediately.

Hardware / Software Requirements

Any modern desktop or mobile browser (Chrome, Edge, Firefox, Safari). Server side: PHP 8.x with MySQL 5.7+ on shared or VPS hosting; the demo runs fully client-side from a single HTML file for screenshots and UI review.

Expected Outcomes

- A working portal demonstrating booking, grading and readiness tracking end to end.
- Seeded demo data covering a full 21-day LMV course lifecycle.
- Project report with system design, ER diagram, booking-transaction logic and test cases.
- PPT presentation and viva Q&A; (scheduling conflicts, role-based access, readiness algorithm).

Applications

Motor training schools digitising bookings and lesson records; the booking engine pattern adapts to coaching institutes, music schools and any appointment-based training business.

Future Scope

Online fee collection, SMS reminders via a provider gateway, multi-branch management, and an instructor mobile view for grading lessons trackside.