

**Project Name:**  
**Syaqa - Moroccan Driving Learning Platform**

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## 1. Problem Statement

Learning traffic laws and driving rules in Morocco is often a challenge for many candidates. Access to traditional training is limited by several factors:

- Lack of schedule flexibility
- Need to travel to a training center
- Absence of digital solutions suitable for structured and in-depth learning

Today, most e-learning platforms for driving are designed primarily for smartphones, limiting the user experience for those who prefer or require a more suitable environment for in-depth learning (large screen, ergonomic interface, keyboard/mouse navigation).

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## 2. Solution

Our platform offers a PC/Mobile experience with:

- Interactive courses
  - Quizzes
  - Practical tests
  - Interface optimized for large screens
  - Intuitive navigation
  - Immersive and structured learning for preparing for the Moroccan driving license exam.
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## 3. Key Features

### User Roles

✓ **Candidates:** Online registration, document submission, courses, exams, lesson bookings, schedule tracking, discussions.

✓ **Monitors:** Posting course videos, managing practical sessions.

✓ **Admins:** Validating registrations, moderating content, managing exams, tracking progress and reports, managing moniteurs.

## Registration & Documents

- **Online Registration:** Via email + document upload (e.g., ID card, medical certificate).
- **Deadline Notifications:** Reminders for document submission.
- **Admin Validation:** Accepting or rejecting submissions.

## Learning Center

- **Library:**
  - Traffic signs (visual examples + explanations)
  - Road code (legislative texts + summaries)
  - Driving techniques (video tutorials)
  - Legal advice
- **Courses:** Downloadable videos and PDFs.

## Evaluations

- **Quizzes:** Multiple-choice tests automatically corrected + explanations.
- **Mock Exams (optional):** Simulations of official tests.
- **Progress Tracking:** Scores and activity history.

## Practical Lessons

- **Booking:** 1-3 hour time slots with an instructor.
- **Schedule Tracking:** Calendar integration.

## Support

- **Notifications:** Automated SMS/emails
- **Reporting:** Technical issues or inappropriate behavior.

## Administrative Tools

- **Content Moderation:** Approve/reject/delete.
- **Dashboard:** Scores, progress, exam preparation.
- **Monitors management:** Adding, Modifying, Deleting
- **Exam Management:** Planning and validating dates.

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# 4. Technical Requirements

## Frontend (React.js)

- **Candidate Portal:** Course dashboard, exams, schedule.
- **Monitor Portal:** Content publishing interface.
- **Admin Portal:** Moderation, analytics.

## Backend (Laravel)

- **Access Control:** Role-based permissions.
- **APIs:**
  - Document upload/validation.
  - Lesson booking and scheduling.

## Database (PostgreSQL)

- **Secure Storage:** Document and data encryption.

## Integrations

- **Payments(optional):** Practical lesson fees
- **SMS/Email(optional):** Twilio or Moroccan API.

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## 5. Example Workflow

1. **Candidate Registration:** Ahmed registers, uploads his ID card.
2. **Admin Validation:** After verification, Ahmed's account is activated.
3. **Learning:** Ahmed studies the road code, takes quizzes, and books a lesson with Fatima.
4. **Practical Lesson:** Fatima confirms the booking, and Ahmed attends the session.
5. **Exam:** Ahmed proposes a date, and the admin validates it.

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## Conclusion

Syaqa aims to modernize driving education in Morocco by providing a comprehensive, interactive, and adaptable digital platform for all learners.