

# Pedaconnect Software Development Proposal

A Web Application for School-Parent-Teacher Communication

Prepared for: Pedaconnect / Client

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Connecting Education Stakeholders Seamlessly

## 1 Project Overview

The Pedaconnect project aims to develop a modern web application to enhance communication and management between schools, teachers, and parents. The application features a responsive landing page to showcase the business and three role-based dashboards for Parents, Teachers, and Schools (private or public). Each dashboard is tailored to the user's role, providing specific functionalities to streamline educational processes. The frontend is built using React and Vite, ensuring a fast, scalable, and user-friendly interface. The application targets educational institutions seeking to improve engagement and transparency.

## 2 Software

- React + Vite (Frontend)
- Role-based authentication (Parent, Teacher, School)
- Responsive design for desktop and mobile

## 3 Milestones

- Total estimated hours: 120

## 4 Functionalities

The following are the key functionalities included in the Pedaconnect web application:

### 4.1 Landing Page

The landing page serves as the public-facing interface to introduce Pedaconnect's services.

- Hero Section: Engaging introduction with a call-to-action for user login or signup.
- About Us: Overview of Pedaconnect's mission to connect educational stakeholders.
- Our Services: Description of features for parents, teachers, and schools.
- Pricing: Transparent pricing plans for schools and optional premium features.

### 4.2 Role-Based Login

- Users log in as either Parent, Teacher, or School.
- Redirects to the respective dashboard based on user role.

### 4.3 Parent Dashboard

The Parent Dashboard empowers parents to monitor and engage with their children's education.

- Track Children: View children's profiles, including attendance, grades, and attitude reports.

- Justify Absences: Submit justifications for absences with appeal options.
- View Schedules: Access exam schedules, study plans, and class timetables.
- Live Chat: Real-time messaging with teachers.
- Event Calendar: View upcoming school events.
- Notifications: Alerts for grades, absences, or events.
- Digital Library: Access books, videos, and courses (free or paid based on status).

#### 4.4 Teacher Dashboard

The Teacher Dashboard supports educators in managing classes and communicating with parents.

- My Classes: List of assigned classes with student tables for tracking attendance and grades.
- Grade Management: Enter and update student grades.
- Digital Library: Upload and view books, papers, videos, or courses.
- Chat with Parents: Real-time communication with parents.
- Schedule: View teaching timetable.

#### 4.5 School Dashboard

The School Dashboard provides administrative tools for managing the institution.

- Staff Management: Lists of teachers, students, and parents.
- Class Management: Track class details, including student rosters and schedules.
- Exam and Schedule Management: Upload exam and class schedules.
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- Reports: View reports on absences, justifications, or student attitude from teachers or parents.
- Event Management: Create and manage school events.
- Grade Management: Oversee grade submissions by teachers.

## 5 Conclusion

The development of Pedaconnect's frontend is complete, delivering a prototype and a production-ready version with a modern, responsive interface built using React and Vite. This application offers a robust solution for educational institutions, enhancing communication and management. The project's innovative approach positions it for significant impact in the education sector.

For pricing details or further inquiries, please contact the developer or visit the Pedaconnect website.