

Islamic Emirate of Afghanistan
Ministry of Higher Education
Directorate of Private Higher Education
RANA University
Directorate of Computer Science Faculty
Department of Software Engineering



امارت اسلامی افغانستان
وزارت تحصیلات عالی
ریاست موسسات خصوصی تحصیلات عالی
پوهنتون رنبا
ریاست پوهنځی کمپیوتر ساینس
آمریت دیپارتمنت انجیری نرم افزار

MONOGRAPH PROPOSAL

ON

MIS for Elite school

سیستم مدیریتی برای مکتب الیت

BY

Hamza Nawabi

22-RD200-196

In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF SOFTWARE ENGINEERING

BSE

TO

RANA University

Baraki Square, Kabul–Afghanistan

Islamic Emirate of Afghanistan
Ministry of Higher Education
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د افغانستان اسلامي امارت
د لوړو زده کړو وزارت
د لوړو زده کړو د خصوصي پوهنتونو ریاست
رنا پوهنتون
د کمپیوټر ساینس پوهنځي ریاست
د سافت وییر انجنیرنگ ډیپارټمینټ

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MIS for Elite school

In partial fulfillment of the requirements for the award of the degree of
(BSE)

TO

RANA University

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Introduction

Elite School is a private educational institution located in Kart-e-Char (Karti 4), Kabul, Afghanistan. The school currently serves over 500 students across various grade levels. Despite its growing size and the increasing complexity of daily operations, the school still relies on traditional paper-based systems for managing student records, attendance, academic results, and administrative tasks.

This outdated method of operation presents several challenges, including inefficiencies in data retrieval, high risk of data loss, lack of real-time information, and difficulties in communication between administration, teachers, students, and parents.

Existing System

Currently, Elite School uses a **manual paper-based system** for almost all academic and administrative processes. The following tasks are performed using traditional methods:

1. **Student Admissions and Records Management:**
 - New student admissions are recorded manually in registers.
 - Student personal details, academic history, and documents are stored in physical files.
2. **Attendance Management:**
 - Teachers take daily attendance in paper registers.
 - Attendance summaries are compiled manually at the end of each month or term.
3. **Exams and Results Compilation:**
 - Examination marks are recorded on paper.
 - Results are calculated manually by teachers and administrators.
 - Report cards are handwritten or printed using basic templates with manual data entry.
4. **Fee and Finance Tracking:**
 - Fee payments are recorded in physical cash books or ledgers.
 - Receipts are written manually.
 - Financial reporting and reconciliation require checking physical records.
5. **Communication with Parents and Teachers:**
 - Notices are sent home through students as paper slips.
 - Important announcements are made via phone calls or school notice boards.
 - No online or automated notification system is in place.
6. **Staff Records and Payroll:**
 - Teacher and staff details are maintained in paper files.
 - Payroll calculations are done manually or using basic spreadsheets, with hard copy records kept for salaries.

Proposed System

The Elite School MIS will be a modular web application built using Laravel for the backend and React for the frontend. Each module will handle specific functions, ensuring scalability and maintainability. Data security and multilingual support will be incorporated.

The system will handle the following tasks:

- 1. Student Management Module**
 - Digital student profiles with personal, academic, and family details
 - Document uploads and management (Tazkira, photos)
- 2. Attendance Management Module**
 - Daily student attendance marking (by class teachers)
 - Real-time attendance reports for administration
 - Staff attendance management and reporting
- 3. Exams and Results Module**
 - Marks entry and grade calculations
 - Online result publishing for student and parent access
- 4. Fee and Finance Management Module**
 - Student fee structure setup and invoicing
 - Online and cash fee payment recording
 - Automated receipt generation
 - Finance reporting (income, expense)
- 5. Staff Management Module**
 - Teacher and staff records management
 - Payroll setup and salary calculations
 - Designation and department management
 - Leave and attendance tracking
- 6. Communication Module**
 - Notice board for announcements
 - SMS and email notifications to parents and staff
 - Internal messaging between administration and teachers
- 7. Class and Timetable Management Module**
 - Class creation and section management
 - Timetable scheduling for each class and teacher
 - Substitution management for absent teachers
- 8. Reports and Analytics Module**
 - Student performance reports
 - Attendance analytics
 - Financial summaries
 - Custom reports exportable to PDF
- 9. Parent and Student Portal**
 - Login access for students parents
 - View attendance, results, timetable, notices, and fee status

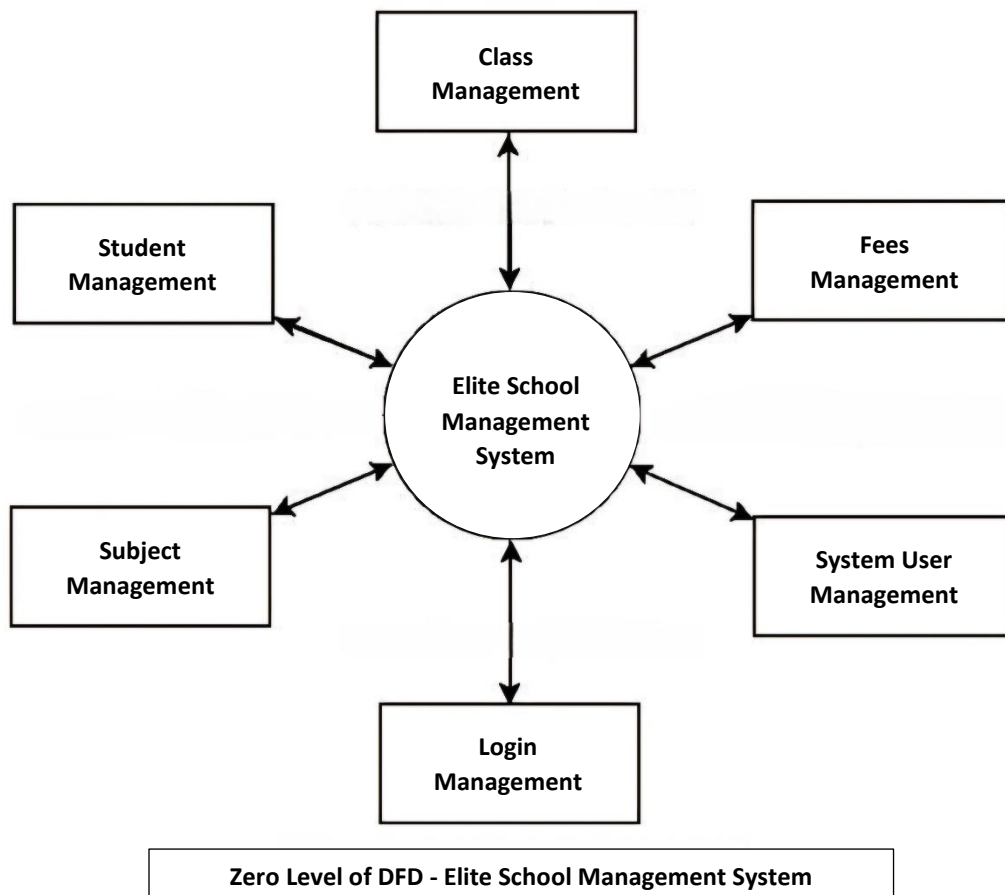
10. Settings and User Management Module

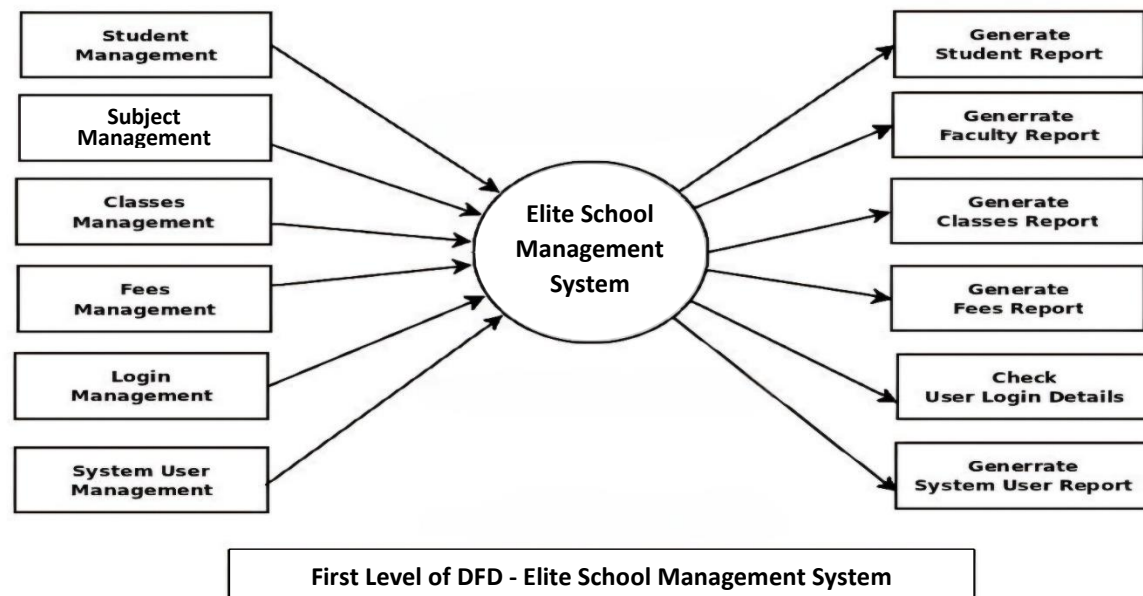
- Role and permission management (Admin, Teacher, HR, Parent, Student)
- System configuration (language, school information)

Benefits of the Proposed System:

- **Efficiency:** Faster processes and reduced paperwork
- **Accuracy:** Minimised human errors in calculations and data entry
- **Data Security:** Centralised and secure storage
- **Accessibility:** Information available anytime, anywhere
- **Better Communication:** Instant notifications and updates
- **Scalability:** Easily extendable to add new modules in future

Logical Design

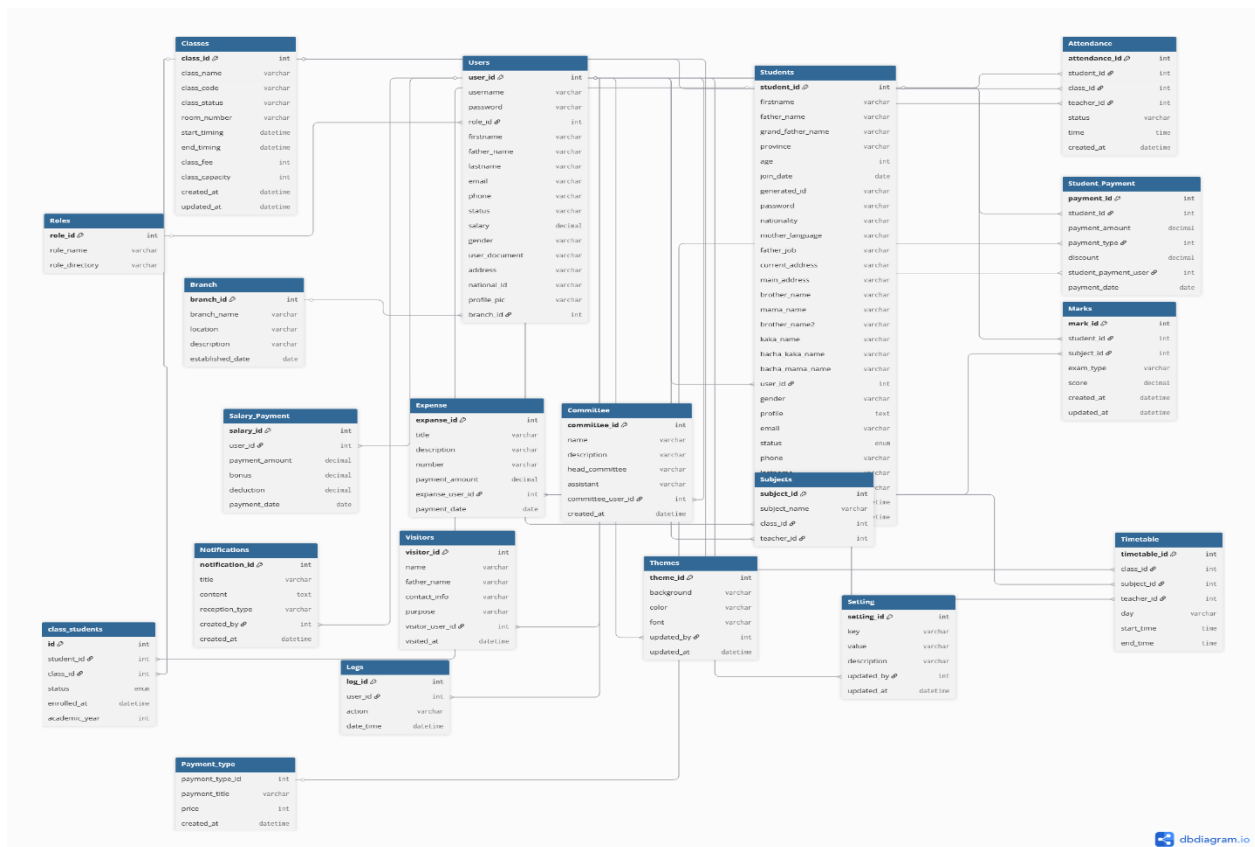




Physical Design

Full diagram details in this link:

<https://dbdiagram.io/d/Hamza-Nawabi-Elite-School-Diagram-686f7077f413ba350831ede1>



Tools & Technologies

- **Backend:** Express.js (Node.js Framework) – API's
- **Frontend:** React.js, React Libraries ...
- **Database:** MySQL
- **Tools:** Git - GitHub, Postman
- **Optional:** PDF.js, any other tools which will need during of developing, etc.

Project Timeline

Requirement Gathering	4 week - September
Model Design	2 Week - October
Implementation	8 week – October, December
Testing and evaluation	3 week – January/2026
Maintenance	1 year – 2026 / December / 30

PROJECT PROPOSAL APPROVAL SHEET

The undersigned certify that they have read the following Project Proposal and are satisfied with the overall contents and idea, and recommend the project proposal to the Department of Computer Science for acceptance.

Title: MIS for Elite school

Prepared by: **Hamza Nawabi**

Recommended by: **Mr. Sayed Hassan Sabit**

Vice Dean & Coordinator

Project Coordinator:

Mr. Sayed Hassan Sabit

Dean of BCS Faculty:

Mr. Abdul Ghafar Omarkhel