

SUPERVISOR AND CAPSTONE PROJECT REGISTRATION

(Capstone Project Duration: From Nov 10, 2024 To Feb 16, 2025)

1. Supervisor Information

	Full Name	Phone	Email	Position
Supervisor	Mr. Phạm Đức Thắng	0916151663	thangpd10@fe.edu.vn	Lecturer at FPT University (Hanoi)

2. Capstone Project

2.1. Name:

- **English:** E-School Report Card for VH Elementary school
- **Tiếng Việt:** Sổ liên lạc điện tử cho Trường Tiểu học VH
- **Abbreviation:** ESRC

2.2. Proposition (including final result and products)

a. Theory and practice

A brief introduction to VH Primary School (hereinafter referred to as VH School):

- VH School is a private, non-profit institution established to support children from underprivileged families in gaining access to education.
- The school currently has around 10 to 12 classes, with approximately 300 to 400 students, and grows by about 70 to 100 students each year.
- Tuition fees are fully waived except for day-boarding expenses.
- The school's main source of income comes from donations from individuals and businesses.

The current system at VH School has become outdated and presents several issues, such as:

- An old, slow platform with numerous errors.
- Fully manual data entry, prone to mistakes.
- No automatic backup mechanism while teachers are inputting data.
- Only a desktop version is available.
- Lacks semester and yearly evaluation reports.
- Parents are unable to access the system.

As the sponsor of the old system is planning to discontinue its support, VH School seeks a new system to replace it, addressing existing issues and with reasonable costs. After reviewing the available options in the market, VH School found that most providers offer large, high-cost systems with excess features that are unnecessary for the school's needs. Therefore, the new sponsor has decided to develop a custom system that is more efficient, eliminates the current issues, and is cost-effective.

b. Software products:

- **Backend:**

REST API server for managing information. Built with:

- **Language:** JavaScript/TypeScript
- **Framework:** NodeJS
- **Database:** SQL

- **Frontend - Management:**

For teachers and school staff. Built with:

- **Language:** JavaScript/TypeScript
- **Framework:** VueJS
- **Target Platform:** Web

- **Frontend - Parents of student:**

For parents of students. Built with:

- **Language:** JavaScript/TypeScript
- **Framework:** VueJS
- **Target Platform:** Web

c. Other products: None

3. Project Scope:

- **IN scopes:**

- Account management:
 - Create, update, delete
- Grade management:
 - Create, update, delete
- Class management:
 - Create, update, delete
- Student management:
 - Create, update, delete
- Subject management:
 - Create, update, delete

- Score management:
 - Create, update, delete
- Semester management:
 - Create, update, delete
 - Manage student, teacher, in semester
- School year management:
 - Create, update, delete
 - Manage subject, class in year
- Report:
 - Evaluation of class academic performance each semester
 - List of students with unsatisfactory grades who need attention
 - Student progress after each school year
- **OUT scope:**
 - Communication between user
 - Integration with other system
 - Custom reports

4. Other commands (suggestion if has):

Ho Chi Minh City, Nov 02, 2025

Supervisor
(Signature and full name)

Capstone Project Register
(Signature and full name)