

PupSched

Faculty FALCOM System

Project Team

Polytechnic University of the Philippines

August 18, 2025

Contents

1	Abstract	3
2	Introduction	3
3	System Architecture	3
4	Key Features	4
5	Technology Stack	4
6	Conclusion	4

1 Abstract

PupSched is a faculty loading and scheduling system designed for efficient allocation of teaching loads and classroom resources at the Polytechnic University of the Philippines.

2 Introduction

In this section, describe the motivation, goals, and scope of PupSched.

3 System Architecture

Figure 1 shows the high-level architecture.

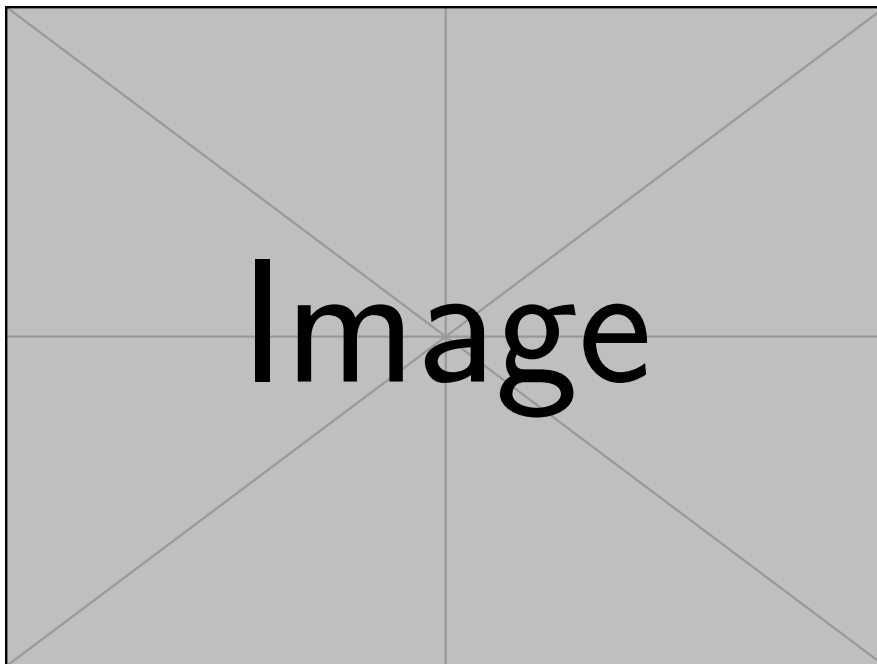


Figure 1: PupSched System Architecture

4 Key Features

- Automatic faculty load computation
- Conflict-free scheduling
- Integration with PUP databases
- Real-time availability tracking

5 Technology Stack

Component	Technology
Backend	Node.js / Express
Database	MySQL
Frontend	React.js
Authentication	JWT
Deployment	AWS EC2

Table 1: Technology stack used in PupSched

6 Conclusion

Summarize the systems impact and future development plans.