

# Internship Placement Management System



Presented by:

Madhav Raghu Anantharam

Lim Ming Wen

Samarth Bhatia

Tan Choon Yang

Toh Jun Meng

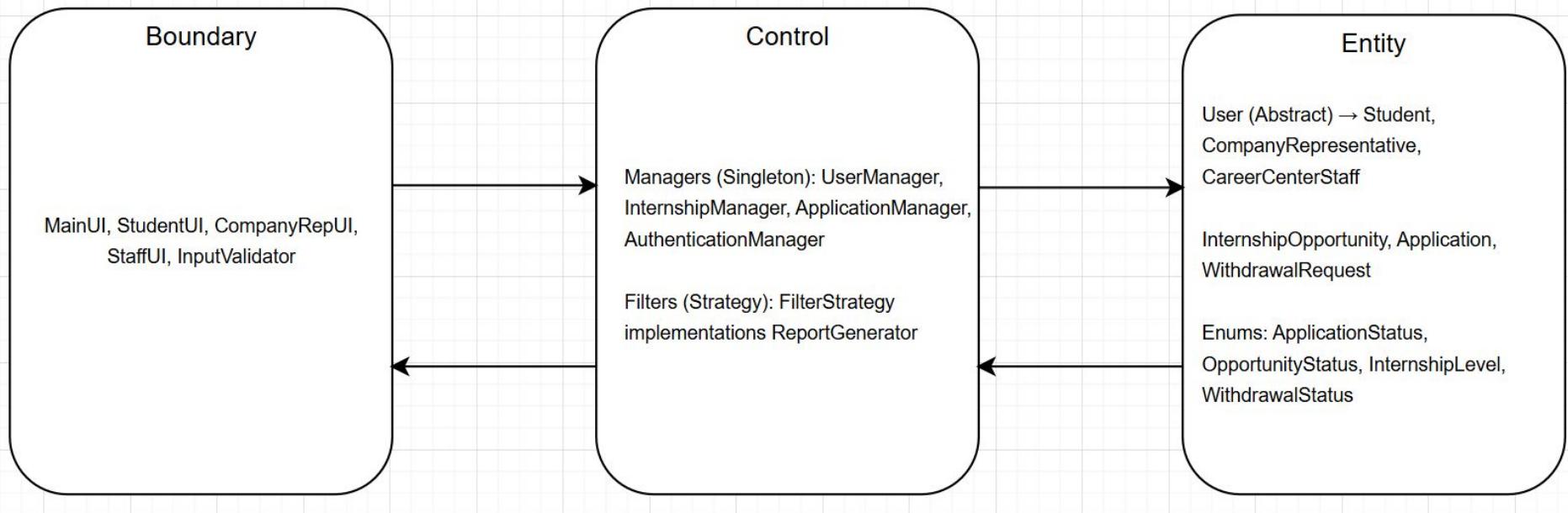
# Project overview



The Internship Placement Management System (IPMS) is a comprehensive Java-based CLI application designed to manage internship opportunities, student applications, and placement processes.

The system facilitates interactions between three user types: Students, Company Representatives, and Career Center Staff.

# Key Design Principles - MVC Architecture



# Key Design Principles - SOLID

01

Single Responsibility  
Principle  
(SPR)

02

Open/Closed Principle  
(OCP)

03

Liskov Substitution  
Principle  
(LSP)

---

04

Interface Substitution  
Principle  
(ISP)

05

Dependency Injection  
Principle  
(DIP)

---

# Design Patterns

01

Singleton Pattern

02

Strategy Pattern

03

Composite Pattern

# Additional Features

01

Automatic Slot  
Management

02

Cascade Withdrawal  
on Placement  
Acceptance

03

Centralised Input  
Validation

---

04

Application Statistics  
Report

05

Real-Time Slot  
Availability Tracking

06

Java Serialisation for  
Data Persistence

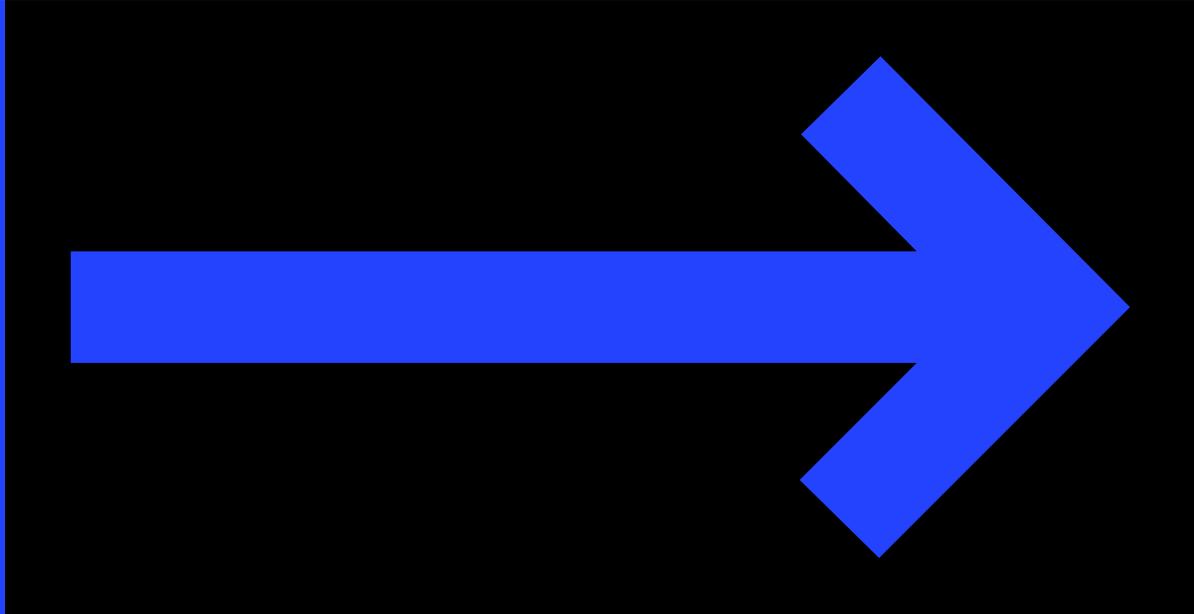
---

# Live Demo

# Q&A

---

Any questions?  
Ask away!



# Thank you!

---

