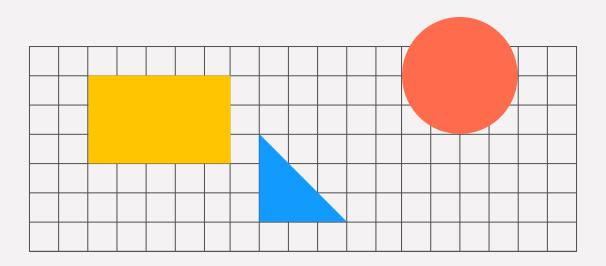
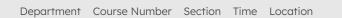
# SC2002 PROJECT

#### Members:

- GAY MING KAI
- 2. LIANG QIAOYUN
- 3. ADITI VASUDEVAN
- 4. LEE HAN HUA







▶ Name





Additional Features

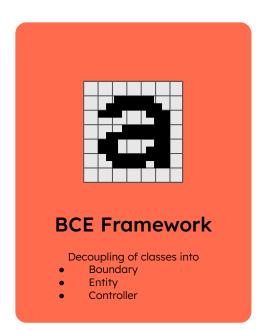


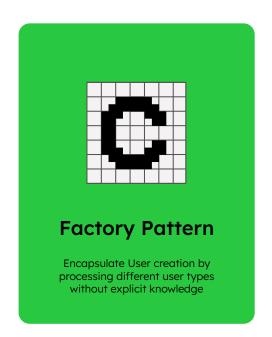
Base Code Run-Through



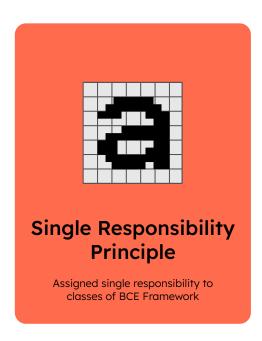
Reflection

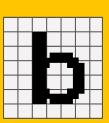
## Design Patterns





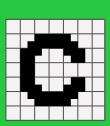
## **SOLID Principles**





### Open/Closed Principle

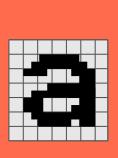
Our code allows for adding of new features in slide 6 without interfering with existing code



### Liskov Substitution Principle

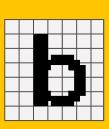
Staff can be substitutable by all its subclasses 'Doctor', 'Pharmacist' and 'Administrator'

## SOLID Principles Cont.



**Interface Segregation Principle** 

> Implemented interfaces for UserUI and AppointmentUI



**Dependency Injection Principle** 

depend on the <UserUI> interface instead of individual concrete classes of 'PatientUI', 'DoctorUI'

### Additional Features

### **Register New Patient**

Users can self register at the Hospital Start Page



#### PLEASE CHOOSE AN OPTION

- 1. Login
- 2. Register as a New Patient
- 3. Forget Password
- 4. Exit



### Additional Features

#### **Forget Password**

A reset password request can be made anytime if Users forget their password, an Admin can then approve the request.

Forget Password

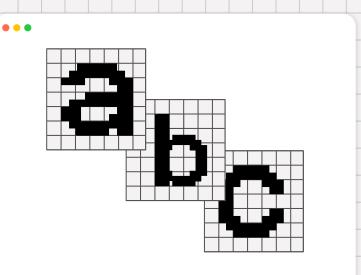
----Enter your ID
P1001
Reset password request has been submitted

### Additional Features

#### **Password Hashing**

SHA3-256: Password Hashing encrypted with SHA3-256 algorithm to enhance security

P1001|Alice Brown|1980-05-14|Female|A+|alice.brown@example.com|5e884898da28047151d0e56f8dc6292773603d0d6aabbdd62a11ef721d1542d8
P1002|Bob Stone|1975-11-22|Male|B+|bob.stone@example.com|5e884898da28047151d0e56f8dc6292773603d0d6aabbdd62a11ef721d1542d8
P1003|Charlie White|1990-07-08|Male|0-|charlie.white@example.com|5e884898da28047151d0e56f8dc6292773603d0d6aabbdd62a11ef721d1542d8
P1004|Antonio|2000-05-06|Male|0|antonio@gmail.com|5e884898da28047151d0e56f8dc6292773603d0d6aabbdd62a11ef721d1542d8





. . .

#### **Password Hashing**

SHA3-256: Password Hashing encrypted with SHA3-256 algorithm to enhance security

Staff Management Menu

1. View Staff

2. Add Staff

3. Remove Staff

4. Update Staff

5. Back

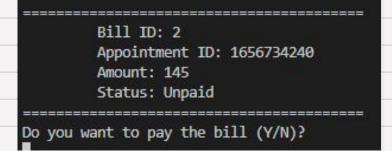


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# Additional Features

### Backtracking

Allows users to return back to the menu at any point in time

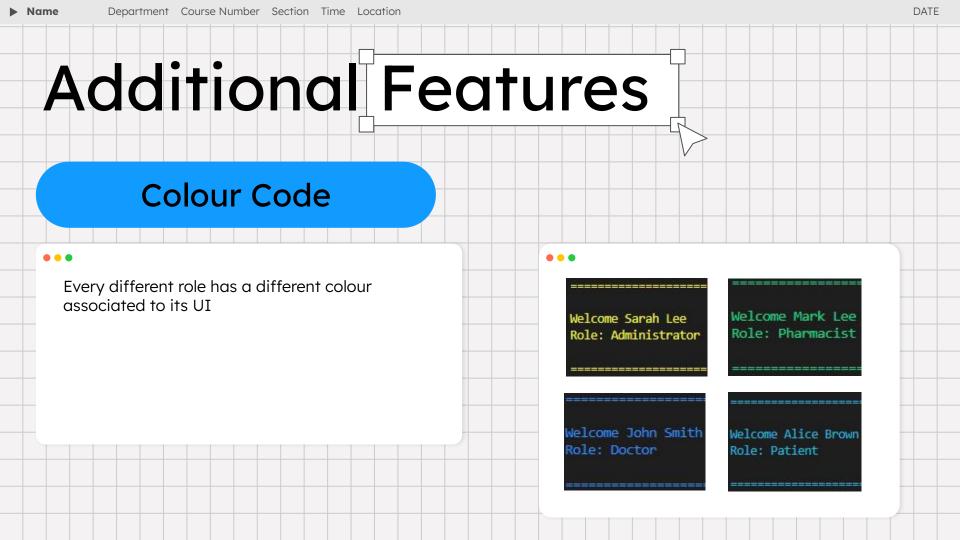


### Additional Features

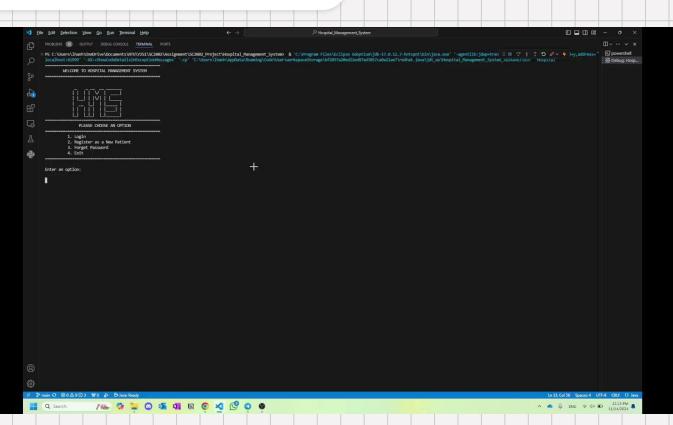
#### Billing

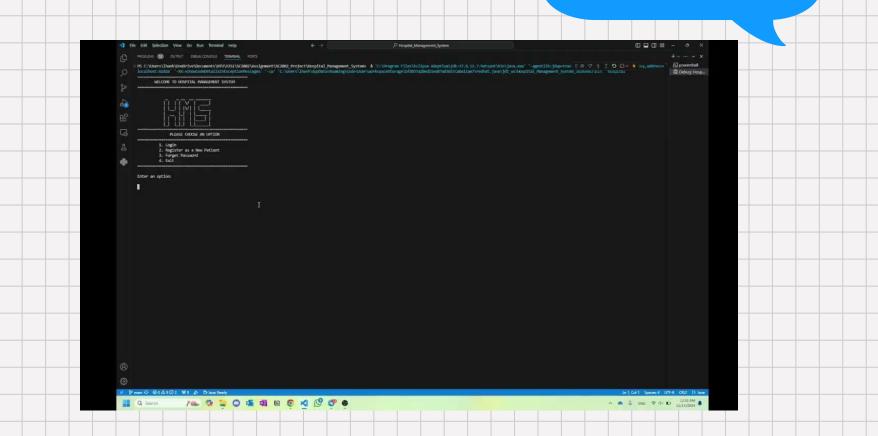
When an appointment is completed, the patient is billed based on appointment and medicine.

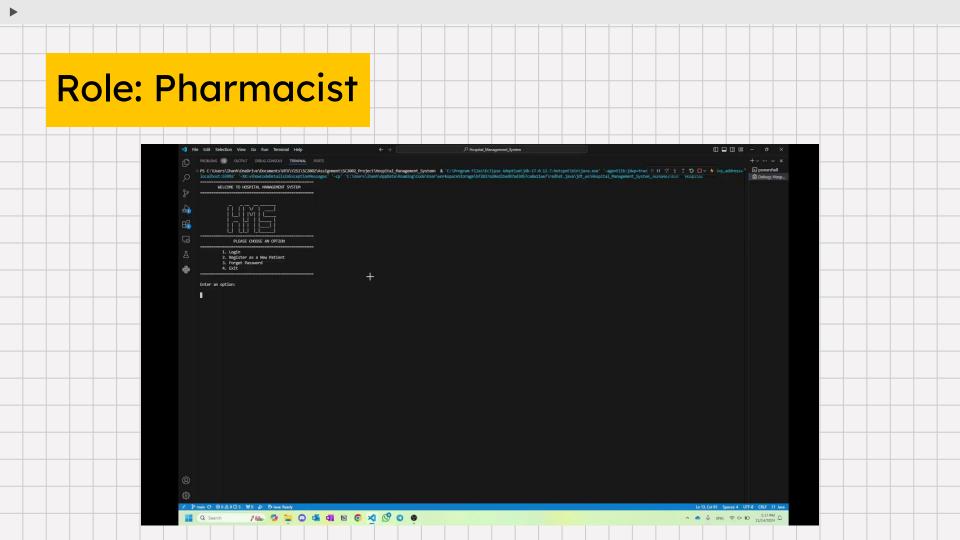


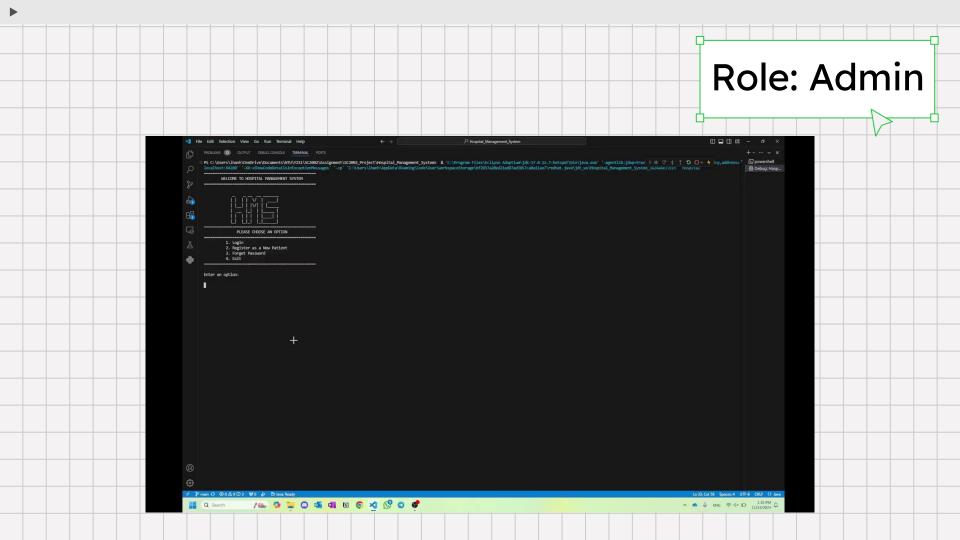


### Role: Patient









### Reflection

- Developing UML with varying levels of OOP and BCE knowledge
  - Solution: Started with a basic skeleton
- Distribution of Work: interdependencies required close collaboration
  - Solution: Used pair programming for better code quality
- Integrating OOP principles
  - JDK constraints > adding static methods to interface

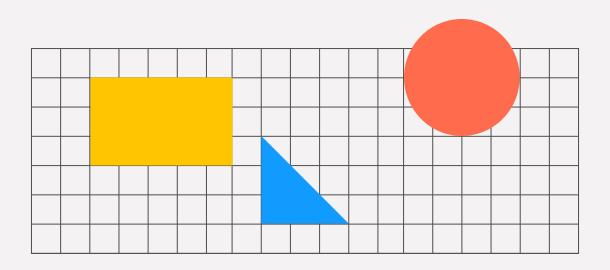
#### **Key Takeaways:**

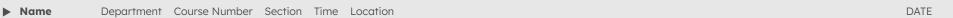
> Improved understanding of OOP, design principles, and teamwork
> Project has potential for a robust HMS

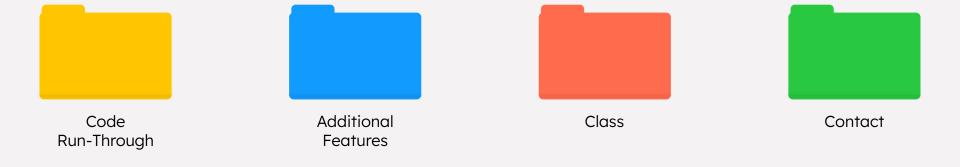
▶ Name Department Course Number Section Time Location DATE

# CLASS OVERVIEW

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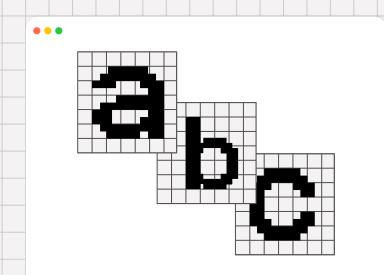




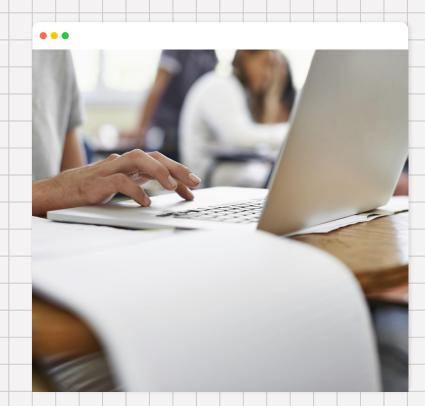
# Learning Outcome

#### **Outline**

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### Class Methods





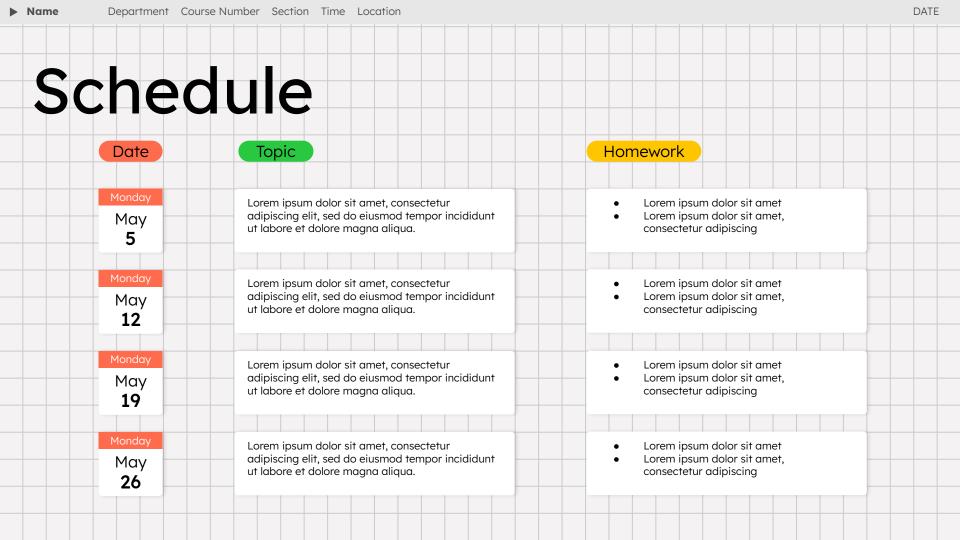
## Class Expectations

#### Do's

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### Don'ts

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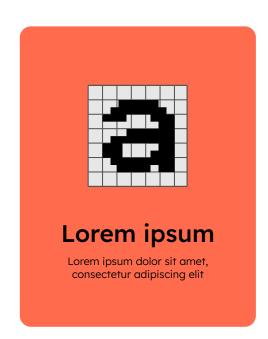
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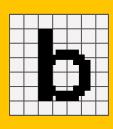
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Tips

### Class Materials





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