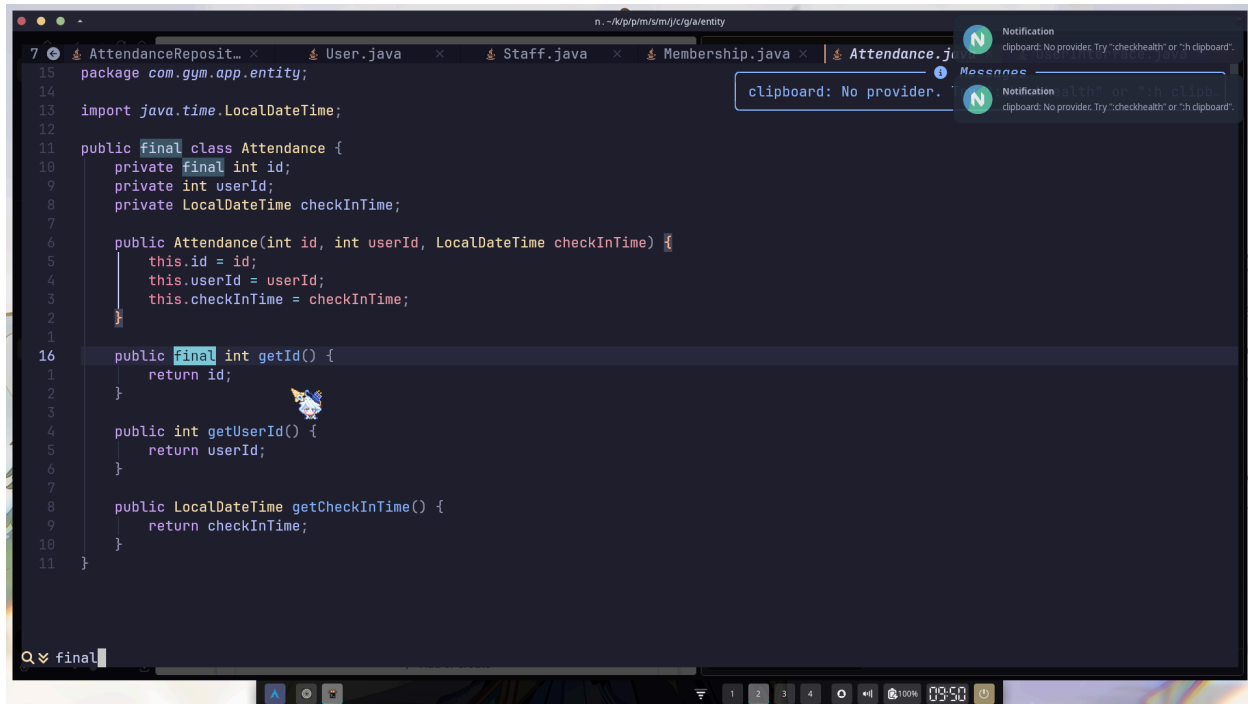


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Screenshot Posttest 5

## final



The screenshot shows an IDE with the following code in `Attendance.java`:

```
package com.gym.app.entity;

import java.time.LocalDateTime;

public final class Attendance {
    private final int id;
    private int userId;
    private LocalDateTime checkInTime;

    public Attendance(int id, int userId, LocalDateTime checkInTime) {
        this.id = id;
        this.userId = userId;
        this.checkInTime = checkInTime;
    }

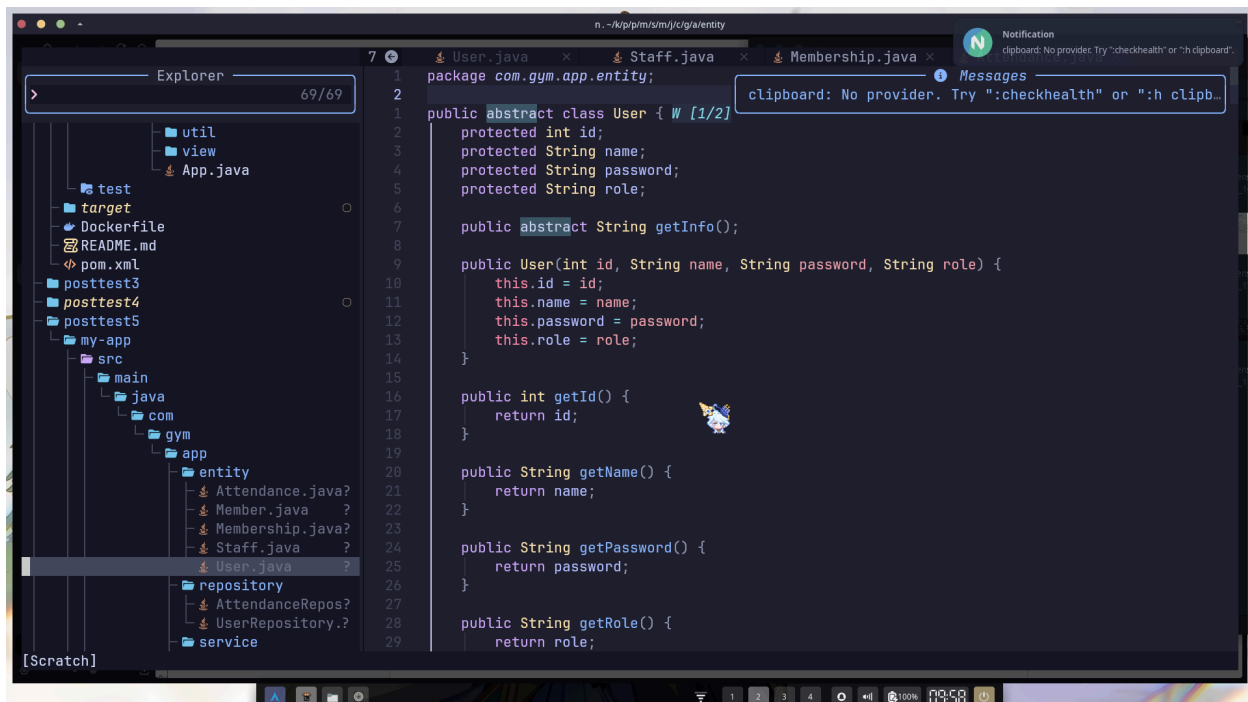
    public final int getId() {
        return id;
    }

    public int getUserId() {
        return userId;
    }

    public LocalDateTime getCheckInTime() {
        return checkInTime;
    }
}
```

The IDE tabs include `AttendanceRepository.java`, `User.java`, `Staff.java`, `Membership.java`, and `Attendance.java`. A notification at the top right says "clipboard: No provider. Try ':checkhealth' or ':h clipboard:'".

## Abstract



The screenshot shows an IDE with the following code in `User.java`:

```
package com.gym.app.entity;

public abstract class User {
    protected int id;
    protected String name;
    protected String password;
    protected String role;

    public abstract String getInfo();

    public User(int id, String name, String password, String role) {
        this.id = id;
        this.name = name;
        this.password = password;
        this.role = role;
    }

    public int getId() {
        return id;
    }

    public String getName() {
        return name;
    }

    public String getPassword() {
        return password;
    }

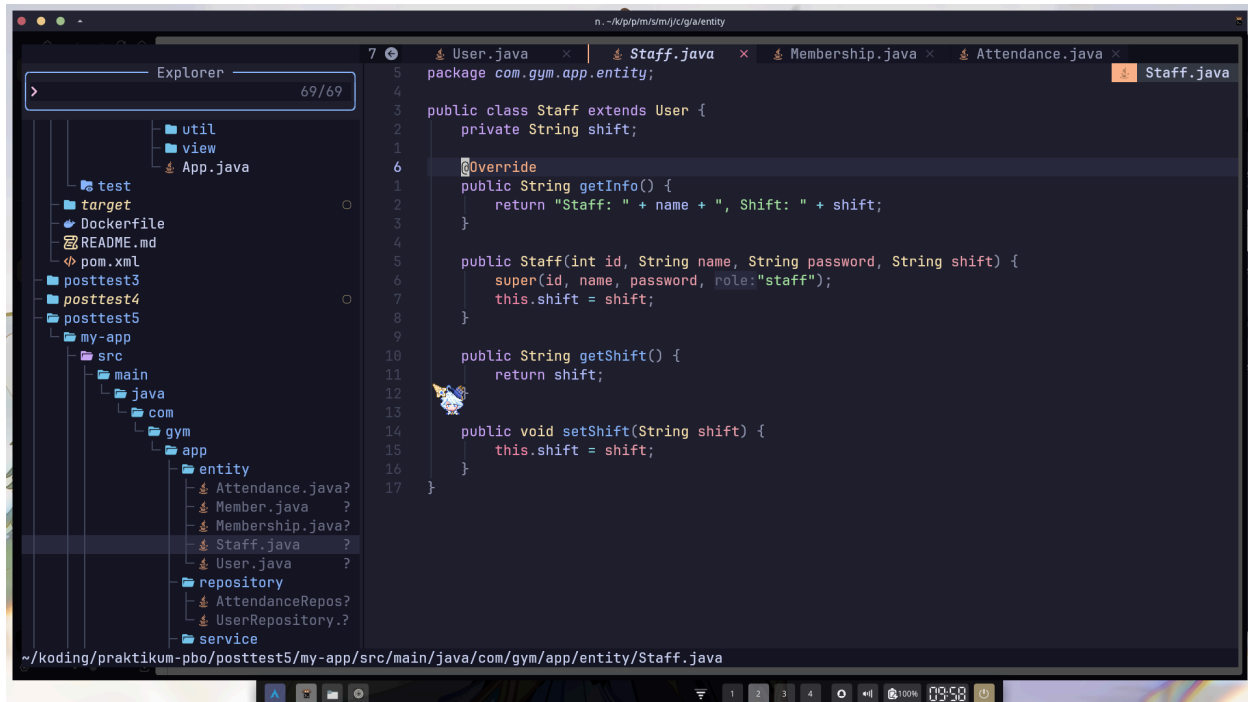
    public String getRole() {
        return role;
    }
}
```

The IDE tabs include `User.java`, `Staff.java`, `Membership.java`, and `Attendance.java`. A notification at the top right says "clipboard: No provider. Try ':checkhealth' or ':h clipboard:'".

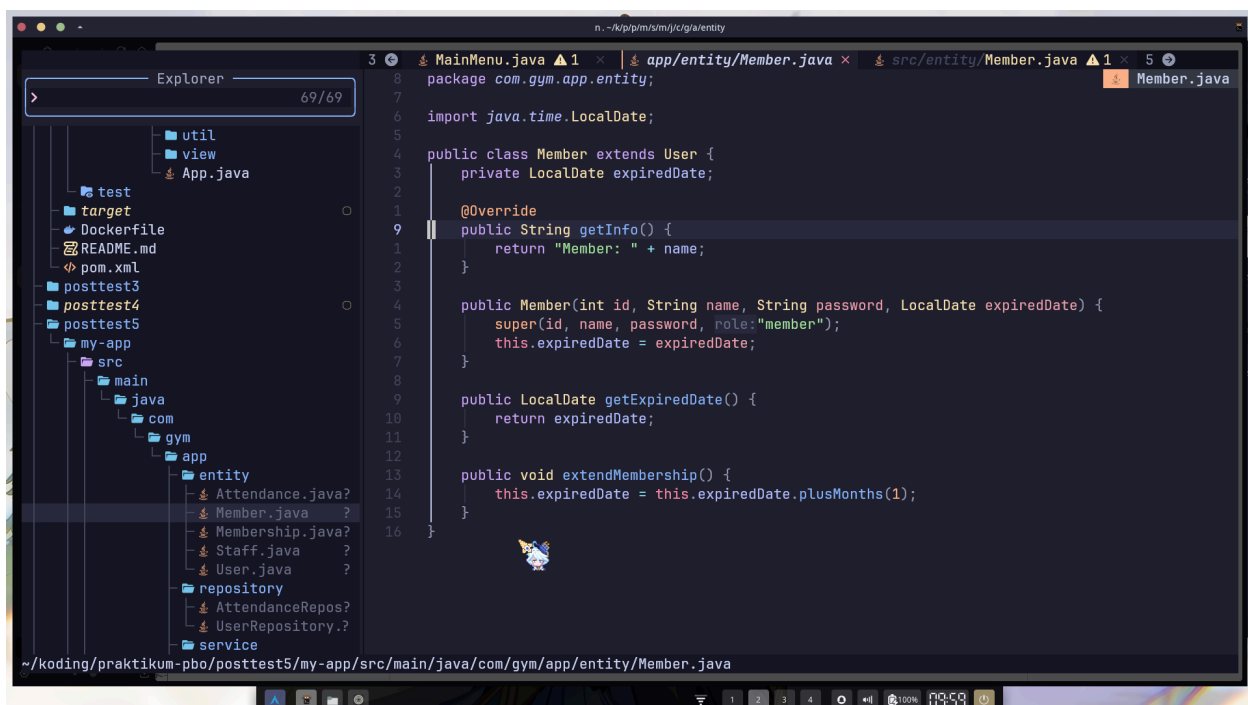
The Explorer view on the left shows the project structure:

- util
- view
- App.java
- test
- target
- Dockerfile
- README.md
- pom.xml
- posttest3
- posttest4
- posttest5
- my-app
  - src
    - main
      - java
        - com
          - gym
            - app
              - entity
                - Attendance.java?
                - Member.java?
                - Membership.java?
                - Staff.java?
                - User.java?
              - repository
                - AttendanceRepos?
                - UserRepository.?
              - service

## Implementasi abstract



```
5 package com.gym.app.entity;
6
7 public class Staff extends User {
8     private String shift;
9
10    @Override
11    public String getInfo() {
12        return "Staff: " + name + ", Shift: " + shift;
13    }
14
15    public Staff(int id, String name, String password, String shift) {
16        super(id, name, password, role:"staff");
17        this.shift = shift;
18    }
19
20    public String getShift() {
21        return shift;
22    }
23
24    public void setShift(String shift) {
25        this.shift = shift;
26    }
27 }
```



```
3 package com.gym.app.entity;
4
5 import java.time.LocalDate;
6
7 public class Member extends User {
8     private LocalDate expiredDate;
9
10    @Override
11    public String getInfo() {
12        return "Member: " + name;
13    }
14
15    public Member(int id, String name, String password, LocalDate expiredDate) {
16        super(id, name, password, role:"member");
17        this.expiredDate = expiredDate;
18    }
19
20    public LocalDate getExpiredDate() {
21        return expiredDate;
22    }
23
24    public void extendMembership() {
25        this.expiredDate = this.expiredDate.plusMonths(1);
26    }
27 }
```