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A2 2023 PBO
Screenshot Posttest 6

final

A screenshot of a code editor window showing a Java file named 'Attendance.java'. The code is as follows:

```
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 editor has a dark theme. The top of the window shows several open tabs: 'AttendanceRepository.java', 'User.java', 'Staff.java', 'Membership.java', and 'Attendance.java'. A notification bubble in the top right corner contains the text 'clipboard: No provider. Try "checkhealth" or "h clipboard".' and a 'Message' button. The bottom status bar shows the text 'final' and a search icon.

Abstract

The screenshot shows an IDE with a dark theme. On the left is the 'Explorer' panel showing a project structure. The main editor displays the code for 'User.java'. A notification bubble is visible in the top right corner.

Explorer Panel:

- 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

User.java Code:

```

package com.gym.app.entity;

public abstract class User { W [1/2]
    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;
    }

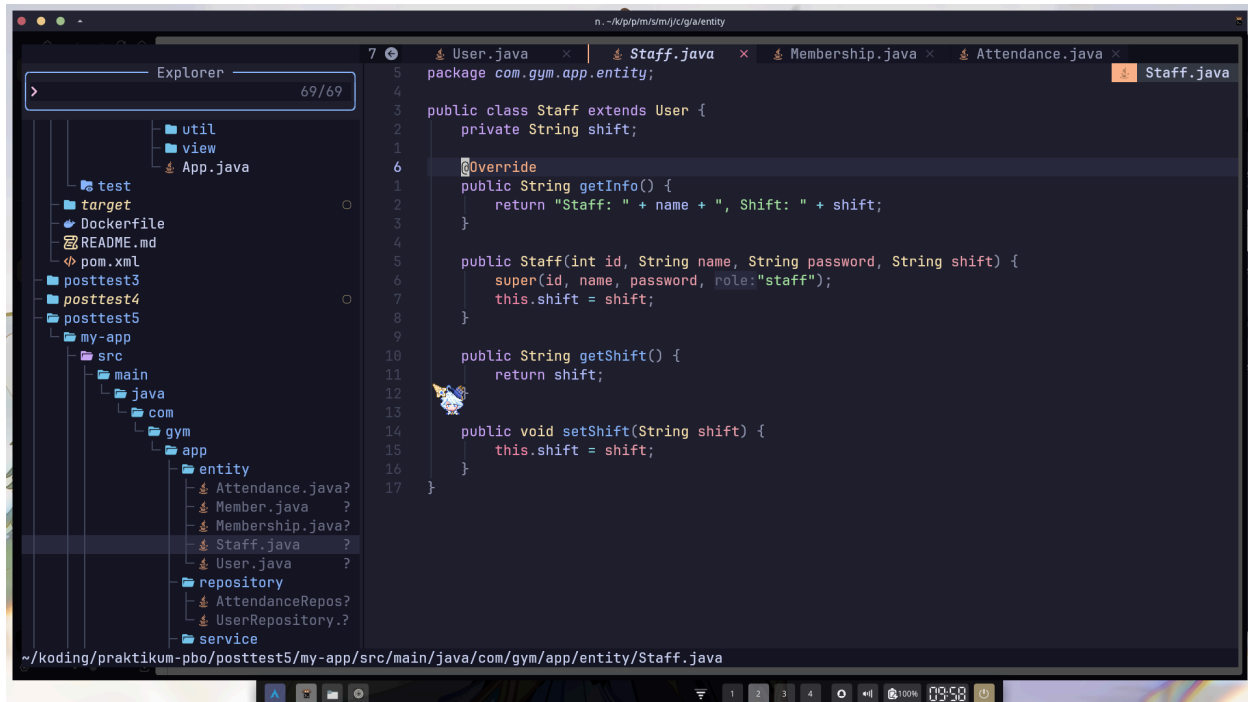
    public String getRole() {
        return role;
    }
}

```

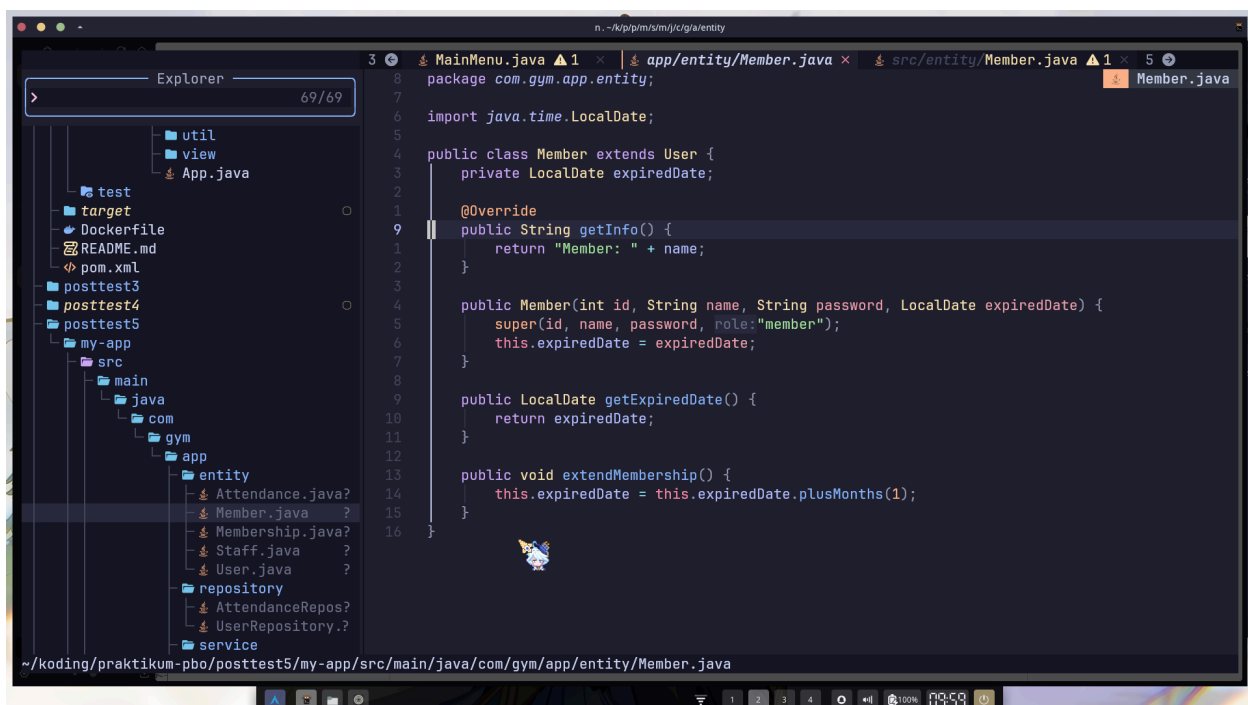
Notification: Notification clipboard: No provider. Try "checkhealth" or "h clipboard."

Messages: clipboard: No provider. Try "checkhealth" or "h clipboard."

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 MainMenu.java x app/entity/Member.java x src/entity/Member.java x 5 Member.java
4 package com.gym.app.entity;
5
6 import java.time.LocalDate;
7
8 public class Member extends User {
9     private LocalDate expiredDate;
10
11    @Override
12    public String getInfo() {
13        return "Member: " + name;
14    }
15
16    public Member(int id, String name, String password, LocalDate expiredDate) {
17        super(id, name, password, role:"member");
18        this.expiredDate = expiredDate;
19    }
20
21    public LocalDate getExpiredDate() {
22        return expiredDate;
23    }
24
25    public void extendMembership() {
26        this.expiredDate = this.expiredDate.plusMonths(1);
27    }
28 }
```