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# SCREENSHOOT PROGRAM POSTTEST 6

#### Package gui:

1. LoginFrame

```
import user.User,
import user.UserManager;
import main.ToDoList;
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
12 public class LoginFrame extends JFrame {
13    private JTextField usernameField;
14    private JPasswordField passwordField;
15    private JButton loginButton;
                   setTitle("Login");
                     setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                     setLayout(new GridLayout(3, 2));
                     add(new JLabel("Username:"));
usernameField = new JTextField();
                     loginButton = new JButton("Login");
                      loginButton.addActionListener(new ActionListener() {
                            @Override
                             public void actionPerformed(ActionEvent e) {
    String username = usernameField.getText();
```

#### 2. ToDoFrame

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```

## Package Main:

1. Main.Java

```
package main;

import gui.LoginFrame; // Ensure that the LoginFrame class exists in the gui package
import user.UserManager;

// Class utama untuk menjalankan program
public class Main {

public static void main(String[] args) {

UserManager.registerUser("user", "123");

new LoginFrame().setVisible(true); // Ensure that the LoginFrame class is correctly defined and imported

| Package main;
| Pa
```

2. PersonalTask.java

```
package main;

public class PersonalTask extends Task {
   public PersonalTask(String description) {
       super(description);
   }

   @Override
   public void displayTask() {
       System.out.println("Personal Task: " + description);
   }
}
```

#### 3. Task.Java

#### 4. ToDoList.java

```
package main;
   import java.util.ArrayList;
   import java.util.List;
   public class ToDoList {
       private List<Task> tasks;
       public ToDoList(String owner) {
            this.tasks = new ArrayList<>();
       public void addTask(Task task) {
            tasks.add(task);
       public void addTask(String description) {
            tasks.add(new PersonalTask(description)); // Default ke PersonalTask
       public void addTask(String description, String priority) {
            switch (priority.toLowerCase()) {
                case "work":
                    tasks.add(new WorkTask(description));
                   break;
                case "urgent":
                    tasks.add(new UrgentTask(description));
                    tasks.add(new PersonalTask(description));
                   break;
        public void removeTask(int index) {
           if (index >= 0 && index < tasks.size()) {</pre>
                tasks.remove(index);
        public List<Task> getTasks() {
           return tasks;
```

5. ToDoOperation.java

```
package main;

interface ToDoOperations {
   void addTask(String task);
   void removeTask(int index);
   void displayTasks();
}
```

## 6. ToDoTask.java

```
package main;

package main;

public class ToDoTask {
 private String description;
 private boolean isCompleted;

public ToDoTask(String description) {
 this.description = description;
 this.isCompleted = false;
}

public String getDescription() {
 return description;
}

public boolean isCompleted() {
 return isCompleted;
}

public void setCompleted(boolean completed) {
 isCompleted = completed;
}

override
public String toString() {
 return description;
}

solutions

public String toString() {
 return description;
}
```

7. UrgentTask.java

```
package main;

public class UrgentTask extends Task {
    public UrgentTask(String description) {
        super(description);
    }

    @Override
    public void displayTask() {
        System.out.println("Urgent Task: " + description + " (This task is urgent!)");
    }
}
```

8. WorkTask.java

```
package main;

package main;

public class WorkTask extends Task {
    public WorkTask(String description) {
        super(description);
    }

    @Override
    public void displayTask() {
        System.out.println("Work Task: " + description);
    }
}
```

## Package user:

1. User.java

```
package user;
   // Class untuk merepresentasikan pengguna
    public class User {
        private String username;
        private String password;
        public User(String username, String password) {
11
            this.username = username;
12
            this.password = password;
13
14
        public String getUsername() {
            return username;
        public boolean validatePassword(String password) {
            return this.password.equals(password);
21
23
```

# 2. UserManager.java

```
package user;

import java.util.HashMap;

import java.util.Map;

public class UserManager {
   private static Map(String, User) users = new HashMap()();

   public static void registerUser(String username, String password) {
      users.put(username, new User(username, password));
   }

public static User loginUser(String username, String password) {
      User user = users.get(username);
      if (user != null && user.validatePassword(password)) {
            return user;
      }
      return null;
    }
}
```