1. Esai (20%)
   1. Kelas-kelas Java dapat dibagi menjadi tiga kelompok yaitu kelas-kelas wadah (container classes), kelas-kelas pembantu (helper classes) dan kelas-kelas komponen (component classes).





* 1. public class User {

private Long id;

private String userName;

private String password;

public Long getId() {

return id;

}

public void setId(Long id) {

this.id = id;

}

public String getUserName() {

return userName;

}

public void setUserName(String userName) {

this.userName = userName;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

}

Keterangan class password di buat private dan hanya bisa di set ketika kelas user di panggil di kelas lain dengan cara memanggil fungsi setter password.

1. Penjelasan aplikasi
   1. JDBC menggunakan MariaDB
   2. Fitur bermanfaat berupa :
      1. Penjumlahan total

formSell.getjButtonCountPayment1().addActionListener(new java.awt.event.ActionListener() {

@Override

public void actionPerformed(java.awt.event.ActionEvent evt) {

if (!formSell.getjTextFieldTotal().getText().isEmpty()) {

formSell.getjTextFieldChange().setText(String.valueOf(

Integer.parseInt(formSell.getjTextFieldTotal().getText())

- Integer.parseInt(formSell.getjTextFieldPayment1().getText())

));

} else {

JOptionPane.showMessageDialog(null, "Jumlah tidak boleh kosong", "Warning", JOptionPane.INFORMATION\_MESSAGE);

}

}

});

Juka pembayaran tidak di isi maka aka nada pesan warning dan jika di isi akan di kalkulasi secara otomatis

* + 1. Penjumlahan total

private void empty(FormSell formSell) {

formSell.getjTextFieldPayment().setText("");

formSell.getjTextFieldChange().setText("");

}

Fungsi untuk mengosongkan field ketika sudah melalui proses CRUD

* 1. ERD

buy

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **Media type** |
| id *(Primary)* | int(11) | No |  |  |  |  |
| name | varchar(50) | No |  |  |  |  |
| amount\_item | int(11) | No |  |  |  |  |
| sell\_price | decimal(20,0) | No |  |  |  |  |

sell

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **Media type** |
| id *(Primary)* | int(11) | No |  |  |  |  |
| id\_buy | int(11) | No |  |  |  |  |
| sell\_amount | int(11) | No |  |  |  |  |
| cash | decimal(20,0) | Yes | *NULL* |  |  |  |

user

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Column** | **Type** | **Null** | **Default** | **Links to** | **Comments** | **Media type** |
| id *(Primary)* | int(11) | No |  |  |  |  |
| user\_name | varchar(50) | Yes | *NULL* |  |  |  |
| password | varchar(50) | Yes | *NULL* |  |  |  |
| role | int(11) | Yes | *NULL* |  |  |  |