

TUGAS APLIKASI TAHAP 2  
MATA KULIAH PEMROGRAMAN DESKTOP



OLEH :

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2022

### 1. Atribut

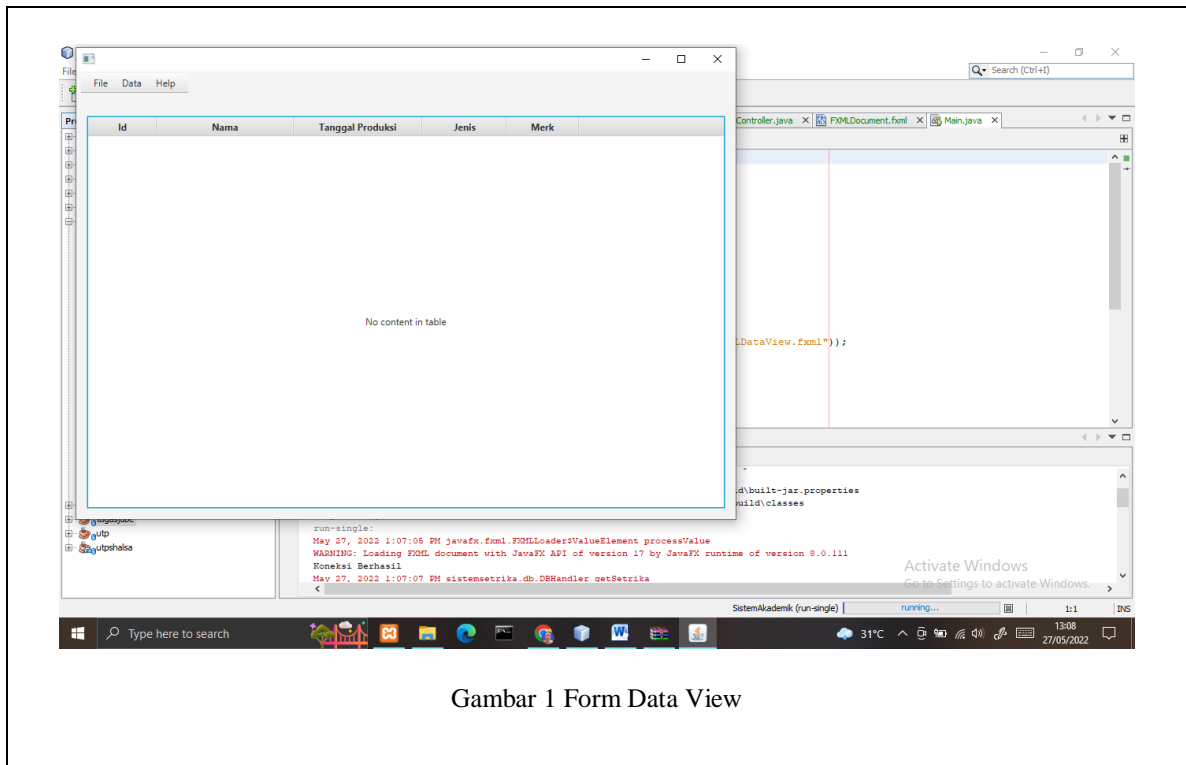
- a. Nama Tabel : kuis
- b. Field

Nama	Tipe
id	Int(2)
nama	varchar(50)
tgl_produksi	date
jenis	varchar(100)
merk	enum

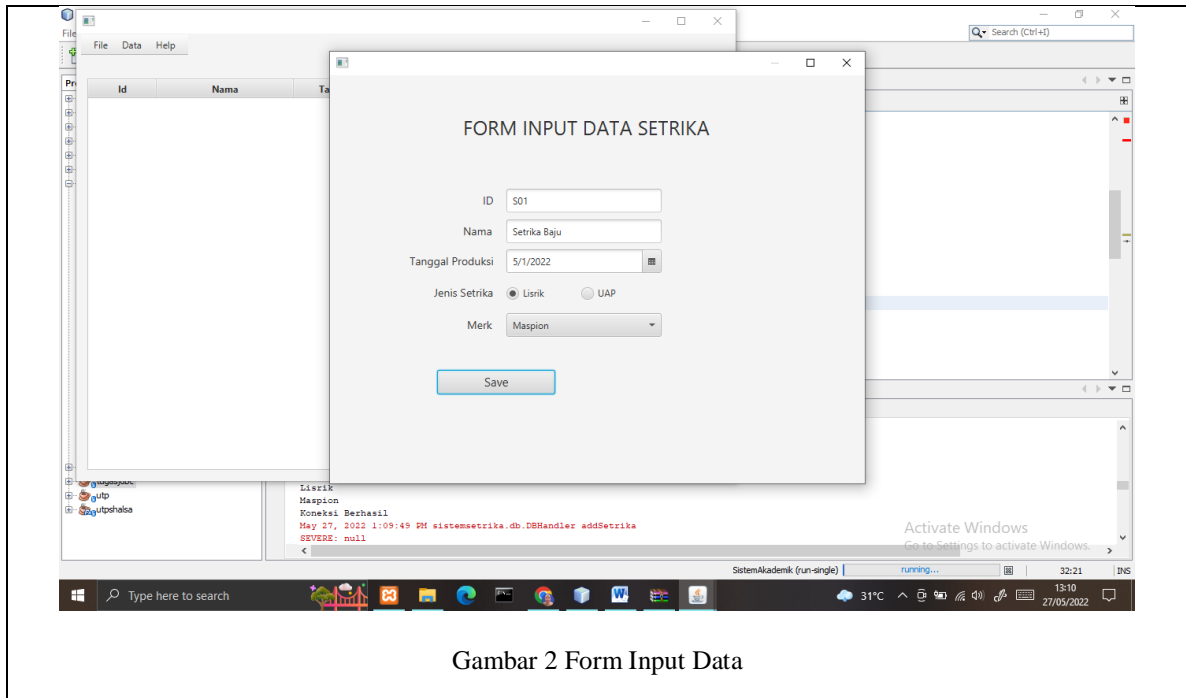
### 2. Perintah SQL untuk membuat table

```
CREATE TABLE `setrika` (  
  `id` int(2) NOT NULL,  
  `nama` varchar(50) NOT NULL,  
  `tgl_produksi` date NOT NULL,  
  `jenis` varchar(100) NOT NULL,  
  `merk` enum('Maspion', 'Samsung') NOT NULL,  
  PRIMARY KEY (`id`)  
)
```

### 3. Print Screen Tampilan Form

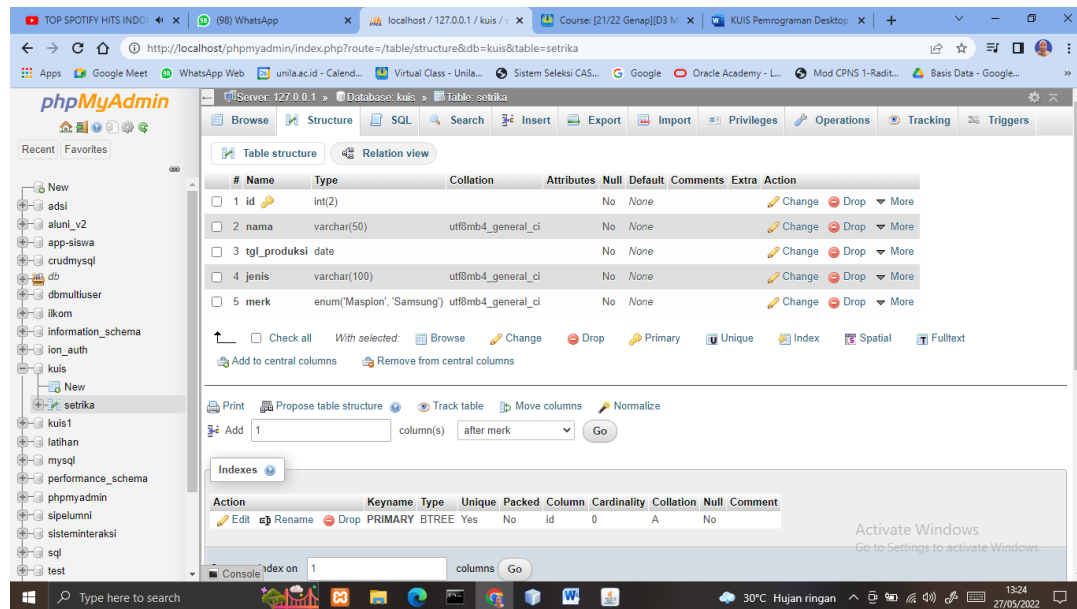


Gambar 1 Form Data View



Gambar 2 Form Input Data

#### 4. Kode program dan screen shoot untuk menyimpan data



Gambar 3 Localhost Kuis

## Package sistemsetrika

### Main.java

```
package sistemsetrika;

import javafx.application.Application;
import javafx.fxml.FXMLLoader;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.stage.Stage;

public class Main extends Application {

    @Override
    public void start(Stage stage) throws Exception {
        Parent root =
FXMLLoader.load(getClass().getResource("FXMLDataView.fxml"));

        Scene scene = new Scene(root);

        stage.setScene(scene);
        stage.show();
    }

    public static void main(String[] args) {
        launch(args);
    }
}
```

### FXMLDataViewController.java

```
package sistemsetrika;

import java.io.IOException;
import java.net.URL;
import java.util.ResourceBundle;
import javafx.beans.property.StringProperty;
import javafx.collections.ObservableList;
import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.fxml.FXMLLoader;
import javafx.fxml.Initializable;
import javafx.scene.Node;
```

```

import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.scene.control.MenuItem;
import javafx.scene.control.TableColumn;
import javafx.scene.control.TableView;
import javafx.scene.control.cell.PropertyValueFactory;
import javafx.stage.Modality;
import javafx.stage.Stage;
import javax.swing.JOptionPane;
import sistemsetrika.db.DBHandler;
import sistemsetrika.model.SetrikaProperty;

public class FXMLDataViewController implements Initializable {

    @FXML
    private TableView<SetrikaProperty> tblSetrika;

    @FXML
    private TableColumn<SetrikaProperty, String> colTglProduksi;

    @FXML
    private TableColumn<SetrikaProperty, String> colId;

    @FXML
    private TableColumn<SetrikaProperty, String> colNama;

    @FXML
    private TableColumn<SetrikaProperty, String> colJenis;

    @FXML
    private TableColumn<SetrikaProperty, String> colMerk;

    @FXML
    private MenuItem menuAddData;

    @FXML
    private MenuItem menuDeleteData;

    @FXML
    void viewAddDataForm(ActionEvent event) throws IOException {
        Stage modal = new Stage();
        Parent root =
FXMLLoader.load(getClass().getResource("FXMLDocument.fxml"));
        Scene scene = new Scene(root);
        modal.setScene(scene);
        // modal.initOwner(((Node)event.getSource()).getScene().getWindow() );
    }

```

```

        modal.initModality(Modality.APPLICATION_MODAL);
        modal.showAndWait();
    }

    @FXML
    void deleteDataMahasiswa(ActionEvent event) {
        SetrikaProperty str = tblSetrika.getSelectionModel().getSelectedItem();
        DBHandler dh = new DBHandler("MYSQL");
        dh.deleteSetrika(str);
        showDataSetrika();
    }

    @Override
    public void initialize(URL url, ResourceBundle rb) {
        // TODO
        showDataSetrika();

        tblSetrika.getSelectionModel().selectedIndexProperty().addListener(listener
-> {
//            JOptionPane.showMessageDialog(null, "Table Diklik!");
            menuDeleteData.setDisable(false);
        });
    }

    public void showDataSetrika() {
        DBHandler dh = new DBHandler("MYSQL");
        ObservableList<SetrikaProperty> data = dh.getSetrika();
        colid.setCellValueFactory(new PropertyValueFactory<>("id"));
        colNama.setCellValueFactory(new PropertyValueFactory<>("nama"));
        colJenis.setCellValueFactory(new PropertyValueFactory<>("jenis"));
        colTglProduksi.setCellValueFactory(new
PropertyVFaluetanggalproduksi");
        tblSetrika.setItems(null);
        tblSetrika.setItems(data);
    }
}

```

#### FXMLDocumentController.java

```

package sistemsetrika;

import java.net.URL;
import java.util.ArrayList;
import java.util.ResourceBundle;
import javafx.collections.FXCollections;

```

```
import javafx.collections.ObservableList;
import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.fxml.Initializable;
import javafx.scene.control.Label;
import javafx.scene.control.Button;
import javafx.scene.control.ComboBox;
import javafx.scene.control.DatePicker;
import javafx.scene.control.TextField;
import javafx.scene.control.ToggleGroup;
import sistemsetrika.db.DBHandler;
import sistemsetrika.model.Setrika;
```

```
public class FXMLDocumentController implements Initializable {
```

```
    @FXML
```

```
    private Button btnSave;
```

```
    @FXML
```

```
    private ComboBox<?> cbMerk;
```

```
    @FXML
```

```
    private DatePicker dpTanggalProduksi;
```

```
    @FXML
```

```
    private ToggleGroup jenis;
```

```
    @FXML
```

```
    private Label label;
```

```
    @FXML
```

```
    private RadioButton rdListrik;
```

```
    @FXML
```

```
    private RadioButton rdUAP;
```

```
    @FXML
```

```
    private TextField tfID;
```

```
    @FXML
```

```
    private TextField tfNama;
```

```
    @FXML
```

```

private void handleButtonAction(ActionEvent event) {
    System.out.println("You clicked me!");
    //    label.setText("Hello "+tfNama.getText());
    System.out.println(tfID.getText());
    System.out.println(tfNama.getText());
    System.out.println(dpTanggalProduksi.getValue().toString());
    String jenis="";
    if (rdListrik.isSelected())
        jenis=rdListrik.getText();
    if (rdUAP.isSelected())
        jenis=rdUAP.getText();

    System.out.println(jenis);
    System.out.println(cbMerk.getValue().toString());
    //    Setrika(String npm, String nama, String tanggalLahir, String gender, String
    prodi)
    Setrika str = new
    Setrika(tfID.getText(),tfNama.getText(),dpTanggalProduksi.getValue().toString()
    ,
        jenis,cbMerk.getValue().toString());
    DBHandler dh = new DBHandler("MYSQL");
    dh.addSetrika(str);
    FXMLDataViewController view = new FXMLDataViewController();
    view.showDataSetrika();
}

@Override
public void initialize(URL url, ResourceBundle rb) {

    // TODO
    ArrayList <String> list = new ArrayList<String>();
    list.add("Maspion");
    list.add("Samsung");
    ObservableList items = FXCollections.observableArrayList(list);
    cbMerk.setItems(items);
}
}

```



## Package sistemsetrika.db

### DBHandler.java

```
package sistemsetrika.db;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.sql.ResultSet;
import java.util.logging.Level;
import java.util.logging.Logger;
import javafx.collections.FXCollections;
import javafx.collections.ObservableList;
import sistemsetrika.model.Setrika;
import sistemsetrika.model.SetrikaProperty;

public class DBHandler {
    public final Connection conn;

    public DBHandler(String driver) {
        this.conn = DBHelper.getConnection(driver);
    }

    public void addSetrika(Setrika str){
        String insertStr = "INSERT INTO `setrika`(`id`, `nama`,
`tgl_produksi`, `jenis`, `merk`)"
            + "VALUES (?, ?, ?, ?, ?)";
        try {
            PreparedStatement stmtInsert = conn.prepareStatement(insertStr);
            stmtInsert.setString(1, str.getID());
            stmtInsert.setString(2, str.getNama());
            stmtInsert.setString(3, str.getTanggalProduksi());
            stmtInsert.setString(4, str.getJenis());
            stmtInsert.setString(5, str.getMerk());
            stmtInsert.execute();
        } catch (SQLException ex) {
            Logger.getLogger(DBHandler.class.getName()).log(Level.SEVERE, null,
ex);
        }
    }

    public ObservableList<SetrikaProperty> getSetrika(){
        ObservableList<SetrikaProperty> data =
FXCollections.observableArrayList();

        String sql = "SELECT id, nama, tgl_lahir, jenis, merek FROM `setrika`";
```

```

ORDER BY id";

    try {
        ResultSet rs = conn.createStatement().executeQuery(sql);
        while (rs.next()){
            SetrikaProperty str = new
SetrikaProperty(rs.getString(1),rs.getString(2),rs.getString(3),rs.getString(4),rs.ge
tString(5));
            data.add(str);
        }
    } catch (SQLException ex) {
        Logger.getLogger(DBHandler.class.getName()).log(Level.SEVERE, null,
ex);
    }

    return data;
}

public void deleteSetrika(SetrikaProperty str){
    String deleteStr = "DELETE FROM setrika WHERE `setrika`.`id` = ?";
    try {
        PreparedStatement stmtDelete = conn.prepareStatement(deleteStr);
        stmtDelete.setString(1, str.getID());
        stmtDelete.execute();
    } catch (SQLException ex) {
        Logger.getLogger(DBHandler.class.getName()).log(Level.SEVERE, null,
ex);
    }
}
}

```

#### DBHelper.java

```

package sistemsetrika.db;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;

public class DBHelper {

    public static final String USER = "root";

```

```

public static final String DB = "kuis";
public static final String MyConn = "jdbc:mysql://localhost/" + DB
    + "?user=" + USER;
public static final String SQConn =
    "jdbc:sqlite:D:\\SQLite\\Data\\DBKU.sqlite";

public static Connection getConnection(String driver) {
    Connection conn = null;
    switch (driver) {
        case "SQLITE": {
            try {
                //      Class.forName("com.mysql.cj.jdbc.Driver");
                Class.forName("org.sqlite.JDBC");
                conn = DriverManager.getConnection(SQConn);
                System.out.println("Koneksi Berhasil");
            } catch (ClassNotFoundException ex) {
                System.out.println("Library blm ada");
            }
            //
            Logger.getLogger(DBHelper.class.getName()).log(Level.SEVERE, null, ex);
        } catch (SQLException ex) {
            //
            Logger.getLogger(DBHelper.class.getName()).log(Level.SEVERE, null, ex);
            System.out.println("Koneksi Gagal");
        }
        break;
    }
    case "MYSQL": {
        try {
            Class.forName("com.mysql.cj.jdbc.Driver");
            conn = DriverManager.getConnection(MyConn);
            System.out.println("Koneksi Berhasil");
        } catch (ClassNotFoundException ex) {
            System.out.println("Library blm ada");
        }
        //
        Logger.getLogger(DBHelper.class.getName()).log(Level.SEVERE, null, ex);
    } catch (SQLException ex) {
        //
        Logger.getLogger(DBHelper.class.getName()).log(Level.SEVERE, null, ex);
        System.out.println("Koneksi Gagal");
    }
    }
    }

    return conn;
}
}

```

Package sistemsetrika.model

Setrika.java

```
package sistemsetrika.model;

public class Setrika {
    private String id;
    private String nama;
    private String tanggalProduksi;
    private String jenis;
    private String merk;

    public Setrika(String id, String nama, String tanggalProduksi, String jenis,
String merk) {
        this.id = id;
        this.nama = nama;
        this.tanggalProduksi = tanggalProduksi;
        this.jenis = jenis;
        this.merk = merk;
    }

    public String getMerk() {
        return merk;
    }

    public void setMerk(String merk) {
        this.merk = merk;
    }

    public String getId() {
        return id;
    }

    public void setId(String id) {
        this.id = id;
    }

    public String getNama() {
        return nama;
    }

    public void setNama(String nama) {
        this.nama = nama;
    }
}
```

```

    }

    public String getTanggalProduksi() {
        return tanggalProduksi;
    }

    public void setTanggalProduksi(String tanggalProduksi) {
        this.tanggalProduksi = tanggalProduksi;
    }

    public String getJenis() {
        return jenis;
    }

    public void setJenis(String jenis) {
        this.jenis = jenis;
    }
}

```

#### SetrikaProperty.java

```

package sistemsetrika.model;

import javafx.beans.property.SimpleStringProperty;
import javafx.beans.property.StringProperty;

public class SetrikaProperty {
    private StringProperty ID;
    private StringProperty nama;
    private StringProperty tanggalProduksi;
    private StringProperty jenis;
    private StringProperty merk;

    public SetrikaProperty(String ID, String nama, String tanggalProduksi, String
jenis, String merk) {
        this.ID = new SimpleStringProperty(ID);
        this.nama = new SimpleStringProperty(nama);
        this.tanggalProduksi = new SimpleStringProperty(tanggalProduksi);
        this.jenis = new SimpleStringProperty(jenis);
        this.merk = new SimpleStringProperty(merk);
    }

    public SetrikaProperty(Setrika str){
        this.ID = new SimpleStringProperty(str.getID());
    }
}

```

```
this.nama = new SimpleStringProperty(str.getNama());
this.tanggalProduksi = new SimpleStringProperty(str.getTanggalProduksi());
this.jenis = new SimpleStringProperty(str.getJenis());
this.merk = new SimpleStringProperty(str.getMerk());
}

public StringProperty getProdiProperty() {
    return merk;
}

public void setMerk(String merk) {
    this.merk = new SimpleStringProperty(merk);
}

public StringProperty getIDProperty() {
    return ID;
}

public void setID(String ID) {
    this.ID = new SimpleStringProperty(ID);
}

public StringProperty getNamaProperty() {
    return nama;
}

public void setNama(String nama) {
    this.nama = new SimpleStringProperty(nama);
}

public StringProperty getTanggalProduksiProperty() {
    return tanggalProduksi;
}

public void setTanggalProduksi(String tanggalProduksi) {
    this.tanggalProduksi = new SimpleStringProperty(tanggalProduksi);
}

public StringProperty getJenisProperty() {
    return jenis;
}

public void setJenis(String jenis) {
    this.jenis = new SimpleStringProperty(jenis);
}

public String getID() {
```

```
        return ID.get();
    }

    public String getNama() {
        return nama.get();
    }

    public String getTanggalProduksi() {
        return tanggalProduksi.get();
    }

    public String getJenis() {
        return jenis.get();
    }

    public String getMerk() {
        return merk.get();
    }
}
```