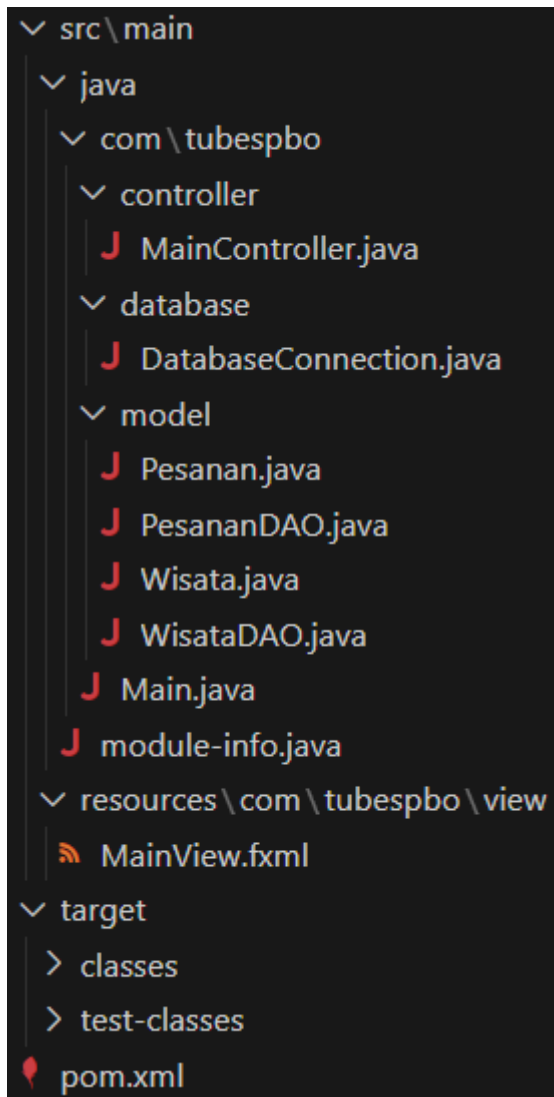


Struktur Folder Proyek



1. MainController.java

```
2. package com.tubespbo.controller;
3.
4. import javafx.beans.property.SimpleDoubleProperty;
5. import javafx.beans.property.SimpleIntegerProperty;
6. import javafx.beans.property.SimpleObjectProperty;
7. import javafx.beans.property.SimpleStringProperty;
8. import javafx.fxml.FXML;
9. import javafx.fxml.FXMLLoader;
10.     import javafx.scene.Parent;
11.     import javafx.scene.Scene;
12.     import javafx.scene.control.*;
13.     import javafx.scene.control.cell.PropertyValueFactory;
14.     import javafx.stage.Modality;
15.     import javafx.stage.Stage;
16.     import com.tubespbo.model.Pesanan;
17.     import com.tubespbo.model.PesananDAO;
18.     import com.tubespbo.model.Wisata;
19.     import com.tubespbo.model.WisataDAO;
20.
21.     import java.io.IOException;
22.     import java.io.InputStream;
23.     import java.sql.SQLException;
24.     import java.time.LocalDate;
25.     import java.util.List;
26.
27.     public class MainController {
28.         @FXML private ComboBox<Wisata> wisataComboBox;
29.         @FXML private TextField hargaField;
30.         @FXML private TextField jumlahField;
31.         @FXML private DatePicker tanggalPicker;
32.         @FXML private TableView<Pesanan> pesananTable;
33.
34.         private WisataDAO wisataDAO;
35.         private PesananDAO pesananDAO;
36.
37.         @FXML
38.         public void initialize() {
39.             TableColumn<Pesanan, String> namaCol =
40.                 (TableColumn<Pesanan, String>) pesananTable.getColumns().get(0);
41.             namaCol.setCellValueFactory(cellData -> new
42.                 SimpleStringProperty(cellData.getValue().getWisata().getNama()));
43.
44.             TableColumn<Pesanan, Double> hargaCol =
45.                 (TableColumn<Pesanan, Double>) pesananTable.getColumns().get(1);
46.             hargaCol.setCellValueFactory(cellData -> new
47.                 SimpleDoubleProperty(cellData.getValue().getWisata().getHarga()).asObje
48.                 ct());
```

```

44.
45.         TableColumn<Pesanan, Integer> jumlahCol =
         (TableColumn<Pesanan, Integer>) pesananTable.getColumns().get(2);
46.         jumlahCol.setCellValueFactory(cellData -> new
         SimpleIntegerProperty(cellData.getValue().getJumlah()).asObject());
47.
48.         TableColumn<Pesanan, Double> totalHargaCol =
         (TableColumn<Pesanan, Double>) pesananTable.getColumns().get(3);
49.         totalHargaCol.setCellValueFactory(cellData -> new
         SimpleDoubleProperty(cellData.getValue().getTotalHarga()).asObject());
50.
51.         TableColumn<Pesanan, LocalDate> tanggalCol =
         (TableColumn<Pesanan, LocalDate>) pesananTable.getColumns().get(4);
52.         tanggalCol.setCellValueFactory(cellData -> new
         SimpleObjectProperty<>(cellData.getValue().getTanggalKunjungan()));
53.
54.         TableColumn<Pesanan, String> statusCol =
         (TableColumn<Pesanan, String>) pesananTable.getColumns().get(5);
55.         statusCol.setCellValueFactory(cellData -> new
         SimpleStringProperty(cellData.getValue().getStatus()));
56.         try {
57.             wisataDAO = new WisataDAO();
58.             pesananDAO = new PesananDAO();
59.
60.             // Load data wisata ke ComboBox
61.             List<Wisata> wisataList = wisataDAO.getAllWisata();
62.             wisataComboBox.getItems().addAll(wisataList);
63.
64.             // Set listener untuk ComboBox
65.             wisataComboBox.getSelectionModel().selectedItemPropert
66. ty().addListener((obs, oldVal, newVal) -> {
67.                 if (newVal != null) {
68.                     hargaField.setText(String.valueOf(newVal.getH
69. arga()));
70.                 }
71.             });
72.
73.             // Set default tanggal ke hari ini
74.             tanggalPicker.setValue(LocalDate.now());
75.
76.             // Load data pesanan ke TableView
77.             refreshPesananTable();
78.         } catch (SQLException e) {
79.             showAlert("Database Error", "Gagal memuat data: " +
80. e.getMessage());

```

```

81.
82.     @FXML
83.     private void handleBeli() {
84.         try {
85.             Wisata selectedWisata =
wisataComboBox.getSelectionModel().getSelectedItem();
86.             if (selectedWisata == null) {
87.                 showAlert("Peringatan", "Pilih tempat wisata
terlebih dahulu");
88.                 return;
89.             }
90.
91.             int jumlah;
92.             try {
93.                 jumlah = Integer.parseInt(jumlahField.getText());
94.                 if (jumlah <= 0) {
95.                     showAlert("Peringatan", "Jumlah tiket harus
lebih dari 0");
96.                     return;
97.                 }
98.             } catch (NumberFormatException e) {
99.                 showAlert("Peringatan", "Jumlah tiket harus
berupa angka");
100.                 return;
101.             }
102.
103.             LocalDate tanggal = tanggalPicker.getValue();
104.             if (tanggal == null) {
105.                 showAlert("Peringatan", "Pilih tanggal
kunjungan");
106.                 return;
107.             }
108.
109.             Pesanan pesanan = new Pesanan(0, selectedWisata,
jumlah, tanggal, "pending");
110.             pesananDAO.addPesanan(pesanan);
111.
112.             refreshPesananTable();
113.             clearForm();
114.
115.         } catch (SQLException e) {
116.             showAlert("Database Error", "Gagal menyimpan pesanan:
" + e.getMessage());
117.         }
118.     }
119.
120.     @FXML
121.     private void handleEdit() {

```

```

122.         Pesanan selectedPesanan =
pesananTable.getSelectionModel().getSelectedItem();
123.         if (selectedPesanan == null) {
124.             showAlert("Peringatan", "Pilih pesanan yang akan
diubah statusnya");
125.             return;
126.         }
127.
128.         if ("lunas".equals(selectedPesanan.getStatus())) {
129.             showAlert("Peringatan", "Pesanan sudah lunas");
130.             return;
131.         }
132.
133.         try {
134.             pesananDAO.updateStatusPesanan(selectedPesanan.getId(
), "lunas");
135.             refreshPesananTable();
136.         } catch (SQLException e) {
137.             showAlert("Database Error", "Gagal mengupdate status:
" + e.getMessage());
138.         }
139.     }
140.
141.     @FXML
142.     private void handleHapus() {
143.         Pesanan selectedPesanan =
pesananTable.getSelectionModel().getSelectedItem();
144.         if (selectedPesanan == null) {
145.             showAlert("Peringatan", "Pilih pesanan yang akan
dihapus");
146.             return;
147.         }
148.
149.         try {
150.             pesananDAO.deletePesanan(selectedPesanan.getId());
151.             refreshPesananTable();
152.         } catch (SQLException e) {
153.             showAlert("Database Error", "Gagal menghapus pesanan:
" + e.getMessage());
154.         }
155.     }
156.
157.     @FXML
158.     private void handleRefresh() {
159.         refreshPesananTable();
160.     }
161.
162.     private void refreshPesananTable() {

```

```

163.         try {
164.             List<Pesanan> pesananList =
                pesananDAO.getAllPesanan();
165.             pesananTable.getItems().setAll(pesananList);
166.         } catch (SQLException e) {
167.             showAlert("Database Error", "Gagal memuat data
                pesanan: " + e.getMessage());
168.         }
169.     }
170.
171.     private void clearForm() {
172.         wisataComboBox.getSelectionModel().clearSelection();
173.         hargaField.clear();
174.         jumlahField.clear();
175.         tanggalPicker.setValue(LocalDate.now());
176.     }
177.
178.     private void showAlert(String title, String message) {
179.         Alert alert = new Alert(Alert.AlertType.WARNING);
180.         alert.setTitle(title);
181.         alert.setHeaderText(null);
182.         alert.setContentText(message);
183.         alert.showAndWait();
184.     }
185. }

```

2. DatabaseConnection.java

```

3. package com.tubespbo.database;
4.
5. import java.sql.Connection;
6. import java.sql.DriverManager;
7. import java.sql.SQLException;
8.
9. public class DatabaseConnection {
10.     private static final String URL =
        "jdbc:mariadb://localhost:3306/tubes_pbo";
11.     private static final String USER = "root";
12.     private static final String PASSWORD = "";
13.
14.     public static Connection getConnection() throws SQLException
        {
15.         return DriverManager.getConnection(URL, USER, PASSWORD);
16.     }
17. }

```

3. Pesanan.java

```
4. package com.tubespbo.model;
5.
6. import java.time.LocalDate;
7.
8. public class Pesanan {
9.     private int id;
10.    private Wisata wisata;
11.    private int jumlah;
12.    private LocalDate tanggalKunjungan;
13.    private String status;
14.
15.    public Pesanan(int id, Wisata wisata, int jumlah, LocalDate
    tanggalKunjungan, String status) {
16.        this.id = id;
17.        this.wisata = wisata;
18.        this.jumlah = jumlah;
19.        this.tanggalKunjungan = tanggalKunjungan;
20.        this.status = status;
21.
22.
23.    }
24.
25.    public double getTotalHarga() {
26.        return wisata.getHarga() * jumlah;
27.    }
28.
29.    // Getters and Setters
30.    public int getId() { return id; }
31.    public Wisata getWisata() { return wisata; }
32.    public int getJumlah() { return jumlah; }
33.    public LocalDate getTanggalKunjungan() { return
    tanggalKunjungan; }
34.    public String getStatus() { return status; }
35.
36.    public void setId(int id) { this.id = id; }
37.    public void setWisata(Wisata wisata) { this.wisata = wisata;
    }
38.    public void setJumlah(int jumlah) { this.jumlah = jumlah; }
39.    public void setTanggalKunjungan(LocalDate tanggalKunjungan) {
    this.tanggalKunjungan = tanggalKunjungan; }
40.    public void setStatus(String status) { this.status = status;
    }
41. }
```

4. PesananDAO.java

```
5. package com.tubespbo.model;
6.
7. import java.sql.Connection;
8. import java.sql.PreparedStatement;
9. import java.sql.ResultSet;
10.     import java.sql.SQLException;
11.     import java.time.LocalDate;
12.     import java.util.ArrayList;
13.     import java.util.List;
14.
15.     import com.tubespbo.database.DatabaseConnection;
16.
17.     public class PesananDAO {
18.         public List<Pesanan> getAllPesanan() throws SQLException {
19.             List<Pesanan> pesananList = new ArrayList<>();
20.             String sql = "SELECT p.*, w.nama, w.harga FROM pesanan p
JOIN wisata w ON p.wisata_id = w.id WHERE w.nama IS NOT NULL";
21.
22.             try (Connection conn =
DatabaseConnection.getConnection();
23.                 PreparedStatement stmt = conn.prepareStatement(sql);
24.                 ResultSet rs = stmt.executeQuery()) {
25.
26.                 while (rs.next()) {
27.                     Wisata wisata = new Wisata(
28.                         rs.getInt("wisata_id"),
29.                         rs.getString("nama"),
30.                         rs.getDouble("harga")
31.                     );
32.
33.                     Pesanan pesanan = new Pesanan(
34.                         rs.getInt("id"),
35.                         wisata,
36.                         rs.getInt("jumlah"),
37.                         rs.getDate("tanggal_kunjungan").toLocalDate()
38.                     ,
39.                         rs.getString("status")
40.                     );
41.                     pesananList.add(pesanan);
42.                 }
43.             }
44.             return pesananList;
45.         }
46.
47.         public void addPesanan(Pesanan pesanan) throws SQLException {
48.             String sql = "INSERT INTO pesanan (wisata_id, jumlah,
tanggal_kunjungan, status) VALUES (?, ?, ?, ?)";
```



```

48.
49.         try (Connection conn =
DatabaseConnection.getConnection());
50.             PreparedStatement stmt = conn.prepareStatement(sql))
{
51.
52.                 stmt.setInt(1, pesanan.getWisata().getId());
53.                 stmt.setInt(2, pesanan.getJumlah());
54.                 stmt.setDate(3,
java.sql.Date.valueOf(pesanan.getTanggalKunjungan()));
55.                 stmt.setString(4, pesanan.getStatus());
56.                 stmt.executeUpdate();
57.             }
58.         }
59.
60.     public void updateStatusPesanan(int id, String status) throws
SQLException {
61.         String sql = "UPDATE pesanan SET status = ? WHERE id =
?";
62.
63.         try (Connection conn =
DatabaseConnection.getConnection());
64.             PreparedStatement stmt = conn.prepareStatement(sql))
{
65.
66.                 stmt.setString(1, status);
67.                 stmt.setInt(2, id);
68.                 stmt.executeUpdate();
69.             }
70.         }
71.
72.     public void deletePesanan(int id) throws SQLException {
73.         String sql = "DELETE FROM pesanan WHERE id = ?";
74.
75.         try (Connection conn =
DatabaseConnection.getConnection());
76.             PreparedStatement stmt = conn.prepareStatement(sql))
{
77.
78.                 stmt.setInt(1, id);
79.                 stmt.executeUpdate();
80.             }
81.         }
82.     }

```

5. Wisata.java

```
6. package com.tubespbo.model;
7.
8. public class Wisata {
9.     private int id;
10.    private String nama;
11.    private double harga;
12.
13.    public Wisata(int id, String nama, double harga) {
14.        this.id = id;
15.        this.nama = nama;
16.        this.harga = harga;
17.    }
18.
19.    // Getters and Setters
20.    public int getId() { return id; }
21.    public String getNama() { return nama; }
22.    public double getHarga() { return harga; }
23.
24.    public void setId(int id) { this.id = id; }
25.    public void setNama(String nama) { this.nama = nama; }
26.    public void setHarga(double harga) { this.harga = harga; }
27.
28.    @Override
29.    public String toString() {
30.        return nama + " (Rp" + harga + ")";
31.    }
32. }
```

6. WisataDAO.java

```
7. package com.tubespbo.model;
8.
9. import java.sql.Connection;
10.     import java.sql.PreparedStatement;
11.     import java.sql.ResultSet;
12.     import java.sql.SQLException;
13.     import java.util.ArrayList;
14.     import java.util.List;
15.
16.     import com.tubespbo.database.DatabaseConnection;
17.
18.     public class WisataDAO {
19.         public List<Wisata> getAllWisata() throws SQLException {
20.             List<Wisata> wisataList = new ArrayList<>();
21.             String sql = "SELECT * FROM wisata";
22.
23.             try (Connection conn =
DatabaseConnection.getConnection();
24.                 PreparedStatement stmt = conn.prepareStatement(sql);
25.                 ResultSet rs = stmt.executeQuery()) {
26.
27.                 while (rs.next()) {
28.                     Wisata wisata = new Wisata(
29.                         rs.getInt("id"),
30.                         rs.getString("nama"),
31.                         rs.getDouble("harga")
32.                     );
33.                     wisataList.add(wisata);
34.                 }
35.             }
36.             return wisataList;
37.         }
38.
39.         public Wisata getWisataById(int id) throws SQLException {
40.             String sql = "SELECT * FROM wisata WHERE id = ?";
41.
42.             try (Connection conn =
DatabaseConnection.getConnection();
43.                 PreparedStatement stmt = conn.prepareStatement(sql))
44.             {
45.                 stmt.setInt(1, id);
46.                 try (ResultSet rs = stmt.executeQuery()) {
47.                     if (rs.next()) {
48.                         return new Wisata(
49.                             rs.getInt("id"),
50.                             rs.getString("nama"),
```

```

51.         rs.getDouble("harga")
52.     );
53.     }
54. }
55. }
56.     return null;
57. }
58. }

```

7. Main.java

```

8. package com.tubespbo;
9.
10. import javafx.application.Application;
11. import javafx.fxml.FXMLLoader;
12. import javafx.scene.Parent;
13. import javafx.scene.Scene;
14. import javafx.stage.Stage;
15.
16. public class Main extends Application {
17.     @Override
18.     public void start(Stage primaryStage) {
19.         try {
20.             Parent root =
FXMLLoader.load(getClass().getResource("/com/tubespbo/view/MainView.fxml
1"));
21.             Scene scene = new Scene(root);
22.
23.             primaryStage.setTitle("Aplikasi Pemesanan Tiket
Wisata");
24.             primaryStage.setScene(scene);
25.             primaryStage.setResizable(false);
26.             primaryStage.show();
27.         } catch (Exception e) {
28.             e.printStackTrace();
29.         }
30.     }
31.
32.     public static void main(String[] args) {
33.         launch(args);
34.     }
35. }

```

8. MainView.fxml

```
9. <?xml version="1.0" encoding="UTF-8"?>
10.
11.     <?import javafx.scene.control.*?>
12.     <?import javafx.scene.layout.*?>
13.     <?import javafx.scene.text.*?>
14.     <?import javafx.geometry.*?>
15.     <?import javafx.scene.control.cell.PropertyValueFactory?>
16.
17.     <VBox xmlns="http://javafx.com/javafx/8.0.171"
18.         xmlns:fx="http://javafx.com/fxml/1"
19.         fx:controller="com.tubespbo.controller.MainController">
20.         <padding>
21.             <Insets top="10" right="10" bottom="10" left="10"/>
22.         </padding>
23.         <spacing>10</spacing>
24.
25.         <Text text="Aplikasi Pemesanan Tiket Wisata" style="-fx-font-
26.             size: 20; -fx-font-weight: bold;"/>
27.
28.         <HBox spacing="10" alignment="CENTER_LEFT">
29.             <Button text="Beli" onAction="#handleBeli" style="-fx-
30.                 font-weight: bold;"/>
31.             <Button text="Bayar Tiket" onAction="#handleEdit"/>
32.             <Button text="Hapus" onAction="#handleHapus"/>
33.             <Button text="Refresh" onAction="#handleRefresh"/>
34.         </HBox>
35.
36.         <Separator/>
37.
38.         <HBox spacing="10">
39.             <VBox spacing="5">
40.                 <Label text="Nama Tempat Wisata:"/>
41.                 <ComboBox fx:id="wisataComboBox" prefWidth="200"/>
42.             </VBox>
43.
44.             <VBox spacing="5">
45.                 <Label text="Harga Tiket:"/>
46.                 <TextField fx:id="hargaField" editable="false"
47.                     prefWidth="100"/>
48.             </VBox>
49.
50.             <VBox spacing="5">
```

```
51.         <Label text="Tanggal Kunjungan:"/>
52.         <DatePicker fx:id="tanggalPicker" prefWidth="150"/>
53.     </VBox>
54. </HBox>
55.
56. <Separator/>
57.
58. <TableView fx:id="pesananTable" prefHeight="200">
59.     <columns>
60.         <TableColumn text="Nama Wisata" prefWidth="200">
61.         </TableColumn>
62.         <TableColumn text="Harga" prefWidth="100">
63.         </TableColumn>
64.         <TableColumn text="Jumlah" prefWidth="50">
65.         </TableColumn>
66.         <TableColumn text="Total Harga" prefWidth="120">
67.         </TableColumn>
68.         <TableColumn text="Tanggal Kunjungan"
prefWidth="150">
69.         </TableColumn>
70.         <TableColumn text="Status" prefWidth="100">
71.         </TableColumn>
72.     </columns>
73. </TableView>
74. </VBox>
```