

**LAPORAN PEMBUATAN APLIKASI  
SISTEM PEMANTAUAN BANJIR “SI PANJIR”**



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**SEMARANG**

**2024**

## **Kata Pengantar**

Puji syukur kami panjatkan ke hadirat Allah SWT atas segala rahmat dan karuniaNya yang telah melimpahkan keberkahan sehingga kami dapatmenyelesaikan proyek akhir UAS ini dengan lancar. Laporan ini disusun sebagai bagian dari tugas akhir mata kuliah Pemrograman Berorientasi Objek di Universitas Dian Nuswantoro.

Proyek ini mengambil tema pembuatan aplikasi sistem pemantauan banjir yang kami beri nama "Sipanjir". Tujuan dari pembuatan aplikasi ini adalah untuk memberikan solusi dalam memantau kondisi banjir secara efektif dan efisien. Dengan menggunakan konsep-konsep pemrograman berorientasi objek, kami berusaha mengembangkan aplikasi yang dapat memberikan informasi yang akurat dan berguna bagi masyarakat serta pihak terkait.

Laporan ini kami susun dengan harapan dapat memberikan gambaran yang jelas dan komprehensif tentang proses pembuatan aplikasi "Sipanjir". Kritik dan saran yang membangun dari pembaca sangat kami hargai untuk perbaikan dan pengembangan lebih lanjut di masa mendatang.

Semarang,6 Juli 2024

Kelompok 5

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## PENJELASAN APLIKASI

### 1.1 Design Figma Aplikasi Sipanjir

The figure displays seven wireframe screens of the Sipanjir application, arranged in a grid:

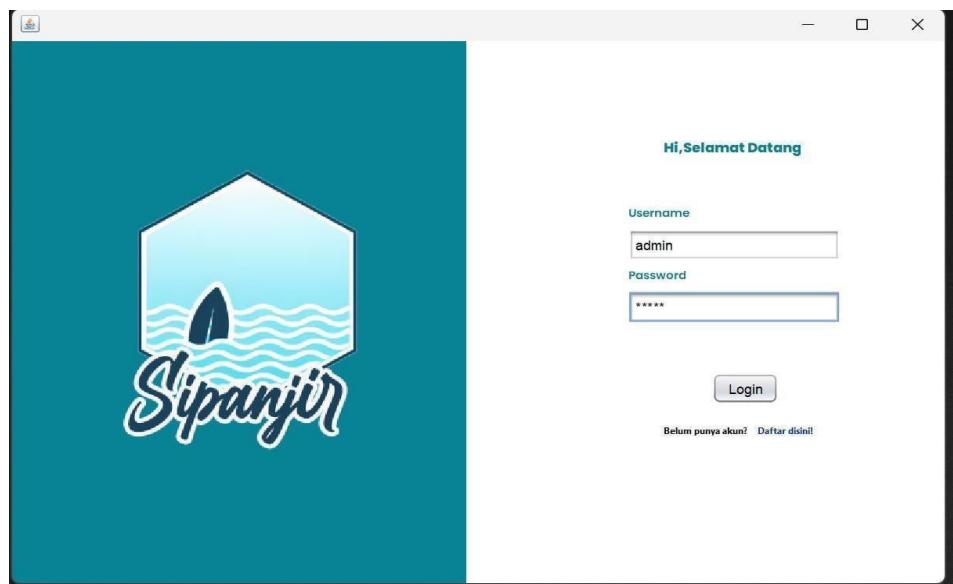
- Login View:** Shows a logo and input fields for Username and Password, with a "Forgot Akun" link.
- Register View:** Shows a logo and input fields for Name, NIK, Username, Password, and Role.
- Dashboard View:** Shows a logo and a sidebar with navigation links: Dashboard, Buat Laporan, Pantau Banjir, Kontak Darurat, User, Laporan, and Logout. The main area displays a table titled "Menampilkan Data Banjir" with columns: No, Pelapor, Lokasi, Kedalaman, and Waktu. One row is shown: 1, Lukman, II Pemuda Semarang, 150, 7/2/2024.
- Add\_Laporan View:** Shows a logo and a sidebar with navigation links. The main area has input fields for Name, Tanggal, Lokasi, Kedalaman, and Waktu, along with a "Simpan Data" button.
- Pantau Banjir View:** Shows a logo and a sidebar with navigation links. The main area displays a table titled "Pantau Banjir" with columns: No, Pelapor, Lokasi, Kedalaman, and Waktu. One row is shown: 1, Lukman, II Pemuda Semarang, 150, 7/2/2024.
- Kontak Darurat View:** Shows a logo and a sidebar with navigation links. The main area lists emergency contact numbers:
  - Nomor telepon penduduk: 118 dan 119
  - Nomor telepon pemadam kebakaran: 10 dan 102
  - Nomor telepon ambulans: 112
  - Nomor telepon kordon bencana: 115
  - Nomor telepon posko bencana: 122
  - Nomor telepon Polisi: 122
- Usser View:** Shows a logo and a sidebar with navigation links. The main area displays a table with columns: No, Nama, No HP, Username, and Password. Two rows are shown: 1, Lukman, 088731534, Lukman10, 11771160; 2, Herard, 332465785, Herand1, 23732.
- Laporan View:** Shows a logo and a sidebar with navigation links. The main area displays a table titled "Laporan" with columns: No, Pelapor, Lokasi, Kedalaman, and Waktu. One row is shown: 1, Lukman, II Pemuda Semarang, 150, 7/2/2024.

### 1.2 Deskripsi Aplikasi

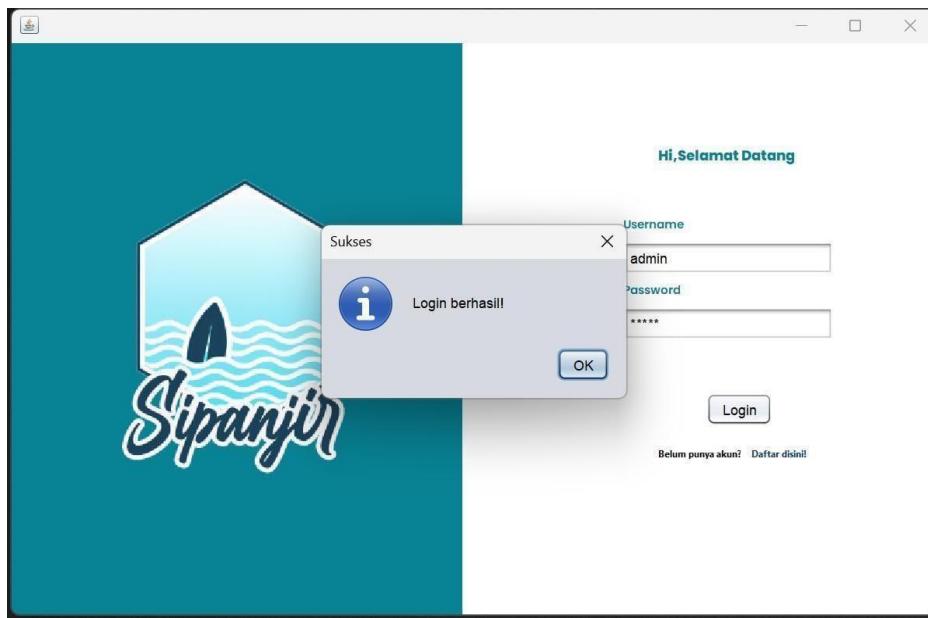
SIPANJIR (Sistem Pemantau Banjir) adalah sebuah aplikasi yang dirancang untuk memantau, merekam, dan mengelola informasi terkait kejadian banjir secara efisien. Aplikasi ini memungkinkan pengguna untuk mencatat lokasi banjir, tingkat keparahan, dan waktu kejadian secara detail. Dengan fitur pemantauan real-time, SIPANJIR memberikan akses cepat dan akurat terhadap kondisi terkini banjir di berbagai lokasi. Pengguna dapat mengelola data banjir yang tercatat, termasuk mengedit dan menghapus informasi, serta menerima notifikasi langsung tentang perubahan status atau kejadian baru.

### 1.3 Panduan Penggunaan Aplikasi

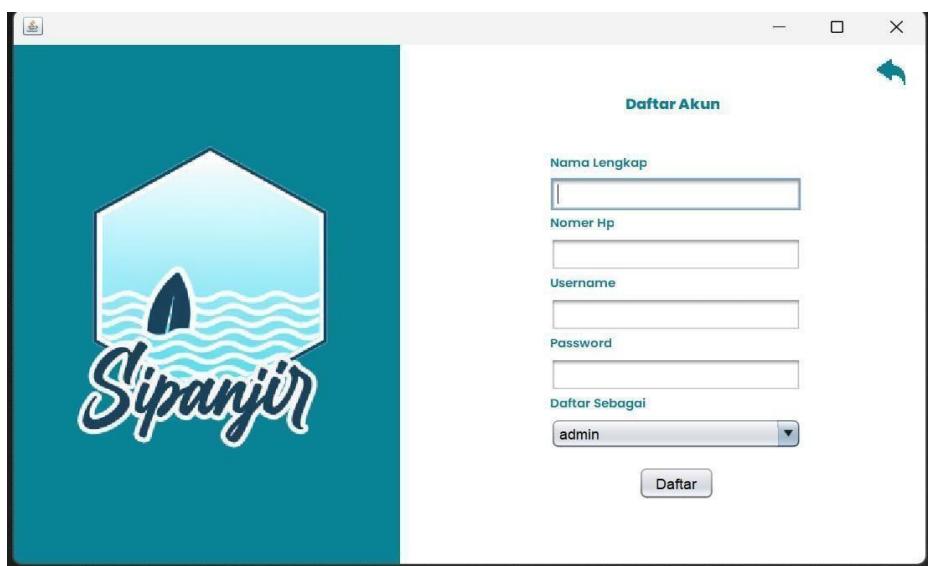
#### a) Login View



Saat aplikasi terbuka, Anda akan melihat layar login yang terdiri dari kolom untuk memasukkan username atau nama pengguna dan kata sandi Anda, seperti yang ditunjukkan pada gambar. Pada kolom “username”, masukkan nama pengguna Anda, misalnya, "admin". Pada kolom “password”, masukkan kata sandi Anda, yang demi keamanan akan ditampilkan sebagai titik atau asterisk. Setelah memasukkan nama pengguna dan kata sandi, klik tombol “Login” untuk melanjutkan. Ini akan mengautentikasi kredensial Anda dan memasukkan Anda ke dalam aplikasi. Jika login berhasil, Anda akan melihat pesan pop-up seperti pada gambar dibawah.

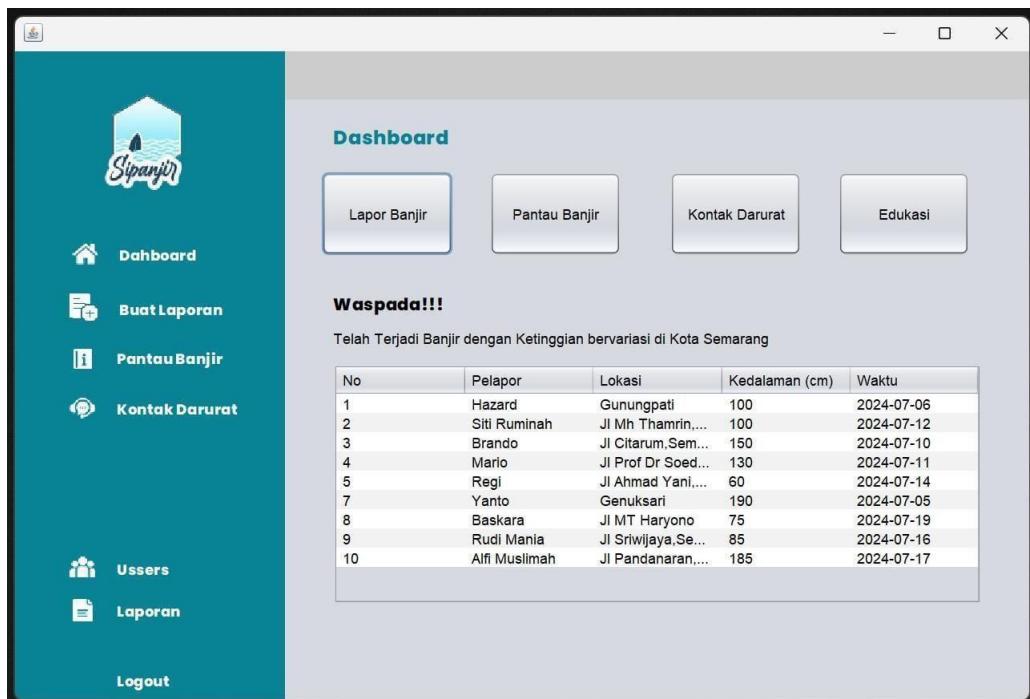


b) Register View



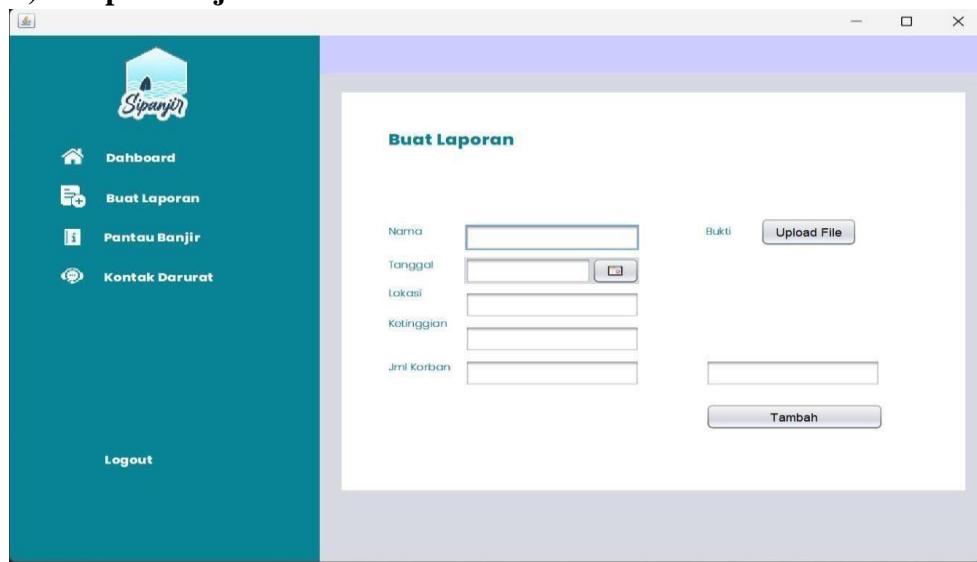
Isi form pendaftaran dengan mengikuti langkah-langkah berikut: Pada kolom "Nama Lengkap", masukkan nama lengkap Anda. Pada kolom "Nomer Hp", masukkan nomor handphone yang aktif dan valid, pastikan nomor ini dapat dihubungi untuk verifikasi. Pada kolom "Username", masukkan nama pengguna yang relevan, yang akan digunakan untuk login ke aplikasi. Pada kolom "Password", masukkan kata sandi yang aman, pastikan kata sandi ini mudah diingat oleh Anda namun sulit ditebak oleh orang lain.

c) Dashboard View



Setelah berhasil login, Anda akan diarahkan ke halaman dashboard seperti yang ditunjukkan pada gambar berikut: Di sini, Anda akan melihat menu utama yang menampilkan informasi terkini tentang situasi banjir. Ada beberapa menu lain yang tersedia, yaitu "Buat Laporan" untuk melaporkan kejadian banjir secara langsung, "Pantau Banjir" untuk memantau kondisi banjir secara real-time di berbagai lokasi, dan "Kontak Darurat" untuk mengakses daftar kontak darurat. Selain itu, terdapat menu "Users" untuk mengelola informasi pengguna (hanya untuk admin), "Laporan" untuk melihat laporan-laporan yang telah dibuat, serta "Logout" untuk keluar dari aplikasi.

#### d) Lapor Banjir



Klik tombol “Lapor Banjir” untuk membuat laporan banjir baru. Formulir pelaporan akan muncul di mana Anda dapat memasukkan detail banjir seperti:

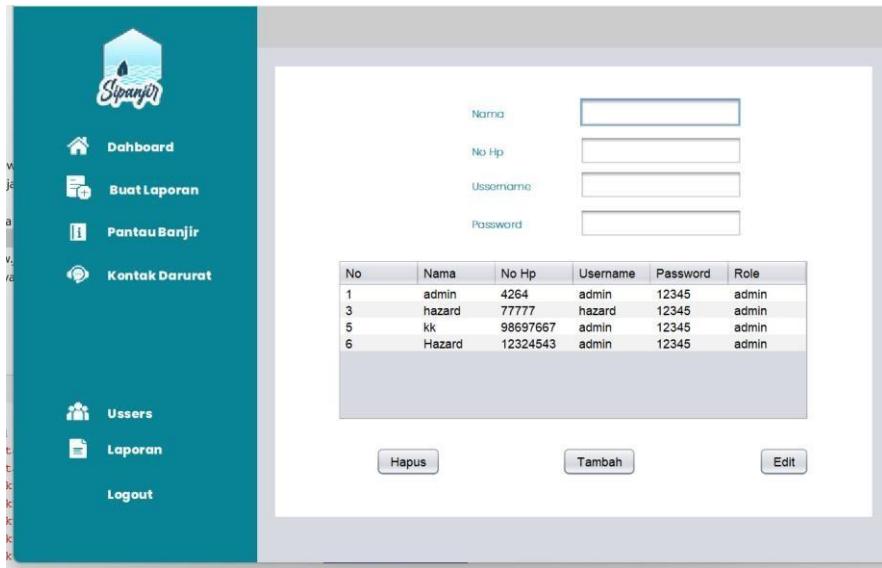
Isi laporan banjir dengan mengikuti langkah-langkah berikut: Masukkan nama lengkap Anda pada kolom "Nama". Klik ikon kalender pada kolom "Tanggal" untuk memilih tanggal kejadian banjir atau masukkan tanggal secara manual dalam format yang sesuai. Masukkan lokasi kejadian banjir dengan jelas dan detail pada kolom "Lokasi". Masukkan ketinggian air banjir dalam satuan sentimeter pada kolom "Ketinggian". Masukkan jumlah korban yang terdampak banjir pada kolom "Jumlah Korban". Klik tombol "Upload File" pada kolom "Bukti" untuk mengunggah bukti pendukung, seperti foto atau video dari kejadian banjir. Pilih file yang relevan dari perangkat Anda dan pastikan file tersebut telah berhasil diunggah.

e) Pantau Banjir

No	Pelapor	Lokasi	Kedalaman (cm)	Waktu
1	Hazard	Gunungpati	100	2024-07-06
2	Siti Ruminah	Jl Mh Thamrin,Se...	100	2024-07-12
3	Brando	Jl Citarum,Semara...	150	2024-07-10
4	Mario	Jl Prof Dr Soedart...	130	2024-07-11
5	Regi	Jl Ahmad Yani,Se...	60	2024-07-14
7	Yanto	Genuksari	190	2024-07-05
8	Baskara	Jl MT Haryono	75	2024-07-19
9	Rudi Mania	Jl Sriwijaya,Semar...	85	2024-07-16
10	Affi Muslimah	Jl Pandanaran,Se...	185	2024-07-17

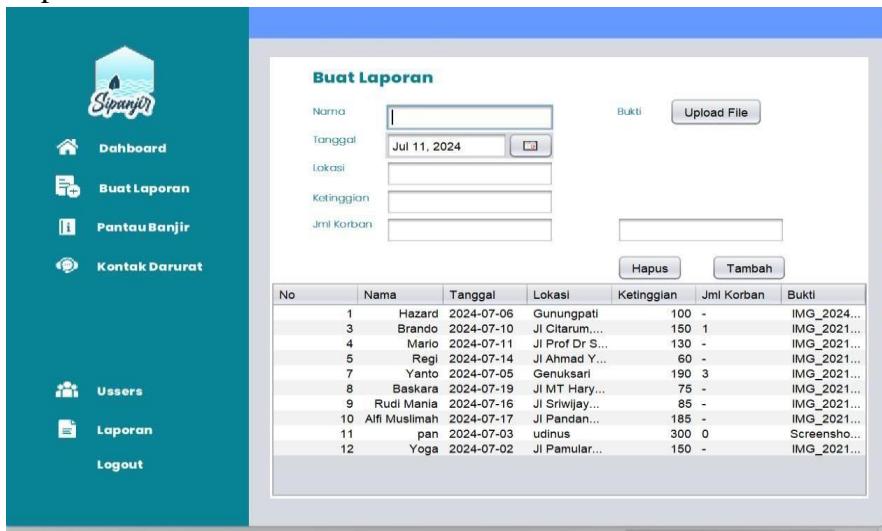
Klik tombol "Pantau Banjir" untuk melihat tabel yang berisi daftar laporan banjir yang mencakup informasi berikut: No, yaitu nomor urut laporan; Pelapor, nama pelapor yang melaporkan kejadian banjir; Lokasi, tempat terjadinya banjir; Kedalaman (cm), kedalaman air banjir yang dilaporkan diukur dalam centimeter; dan Waktu, tanggal kejadian banjir dilaporkan.

f) Usser View



Usser View ini adalah fitur khusus dan hanya bisa di akses oleh Role Admin Halaman ini merupakan bagian dari aplikasi SIPANJIR yang digunakan untuk mengelola pengguna. Untuk menambah pengguna baru, isi formulir dengan Nama, No Hp, Username, dan Password, kemudian klik tombol "Tambah". Untuk mengedit pengguna yang sudah ada, pilih pengguna dari tabel, isi formulir dengan data baru atau yang diperbarui, dan klik tombol "Edit". Jika ingin menghapus pengguna, pilih pengguna dari tabel dan klik tombol "Hapus". Pastikan data yang dimasukkan sudah benar sebelum menekan tombol "Tambah" atau "Edit", dan lakukan pengecekan data setelah penambahan atau pengeditan untuk memastikan data tersimpan dengan benar.

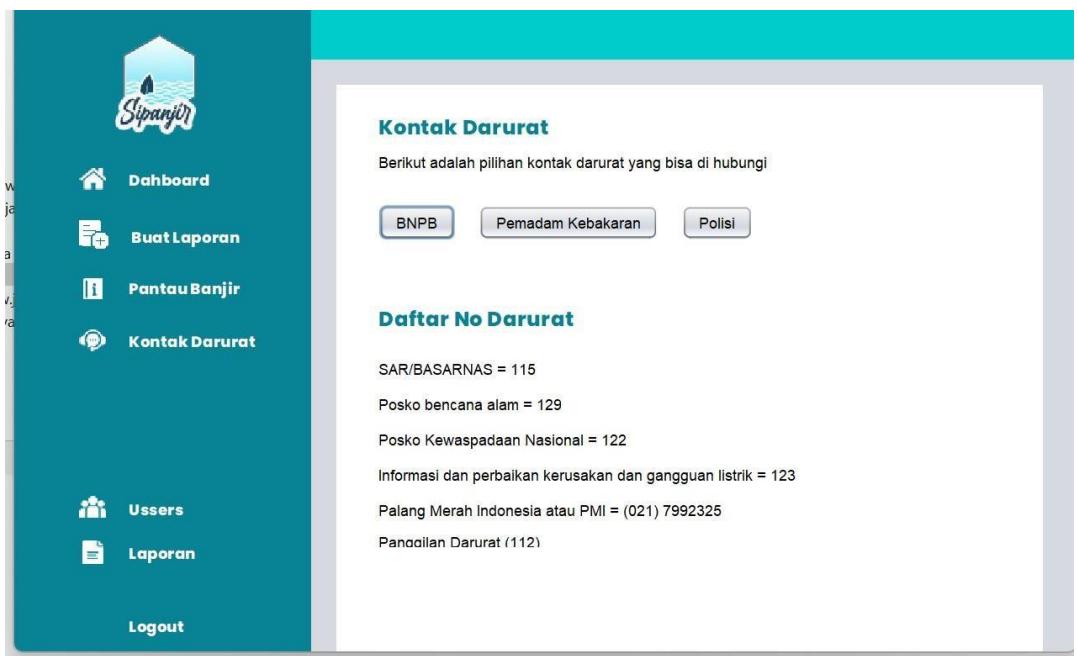
### g) Laporan View



Menu Laporan ini juga hanya bisa diakses oleh Role Admin saja dan tidak akan terlihat jika pengguna masuk sebagai umum. Pada halaman "Buat Laporan" ini, pengguna diminta untuk mengisi beberapa kolom informasi terkait laporan banjir. Bagian tengah halaman terdiri dari beberapa input field, yaitu "Nama", "Tanggal" yang dilengkapi dengan date picker, "Lokasi",

"Ketinggian", dan "Jml Korban". Ada juga tombol "Upload File" untuk mengunggah bukti laporan berupa file. Setelah mengisi informasi, pengguna dapat menekan tombol "Tambah" untuk menambahkan laporan ke dalam tabel di bagian bawah yang berisi data laporan yang sudah dimasukkan sebelumnya. Pengguna juga dapat memilih laporan dari tabel dan menekan tombol "Hapus" untuk menghapus laporan yang dipilih. Tabel tersebut menampilkan informasi seperti nomor, nama, tanggal, lokasi, ketinggian, jumlah korban, dan bukti laporan.

#### h) Kontak Darurat View

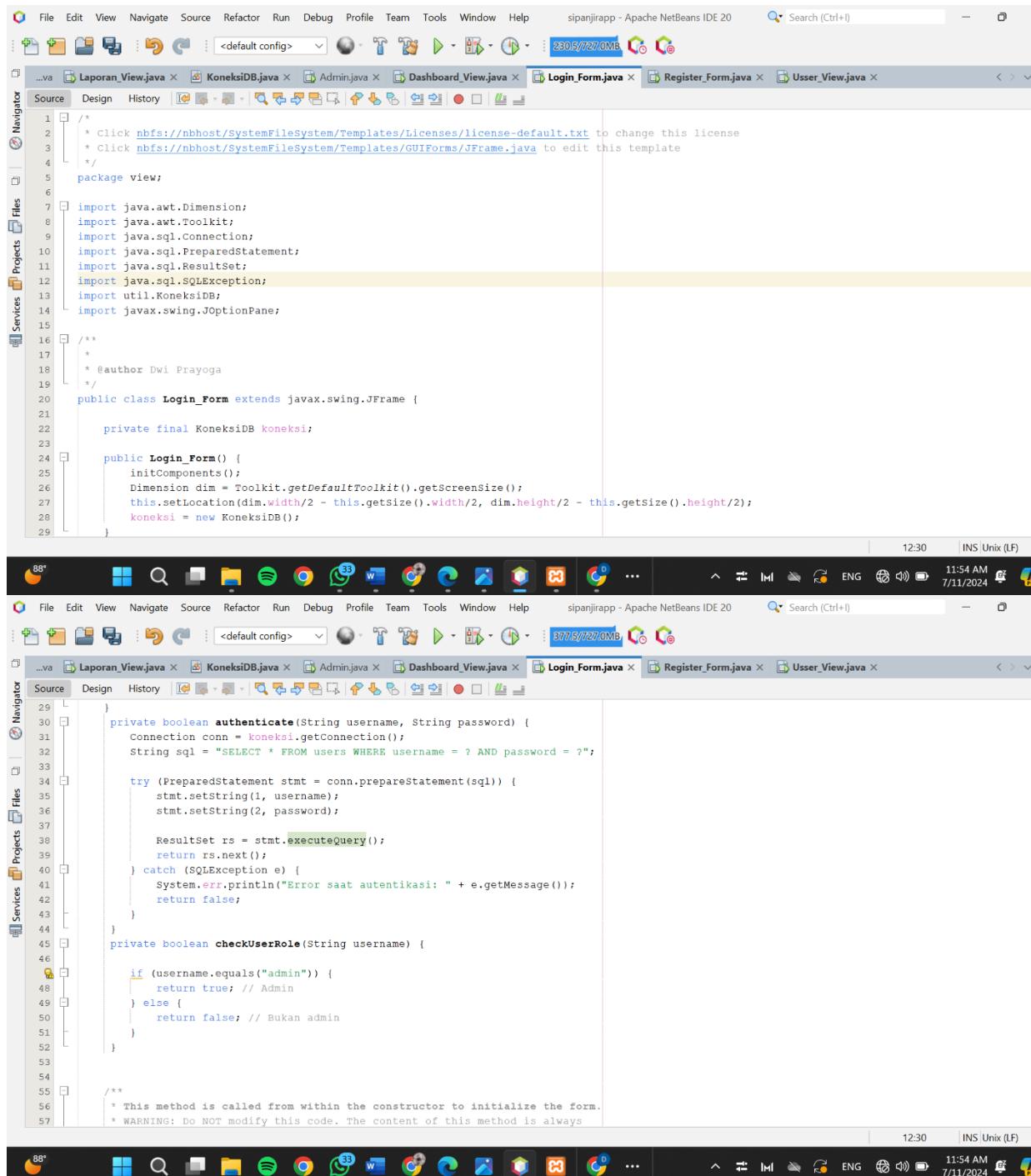


Pada halaman "Kontak Darurat" ini, pengguna diberikan pilihan untuk menghubungi berbagai layanan darurat yang tersedia. Bagian tengah halaman berisi tiga tombol untuk menghubungi BNPB, Pemadam Kebakaran, dan Polisi. Di bawah tombol-tombol tersebut, terdapat daftar nomor darurat yang bisa dihubungi, termasuk nomor untuk SAR/BASARNAS (115), Posko bencana alam (129), Posko Kewaspadaan Nasional (122), informasi dan perbaikan kerusakan serta gangguan listrik (123), Palang Merah Indonesia atau PMI ((021) 7992325), dan Panggilan Darurat (112). Daftar ini memberikan akses cepat kepada pengguna untuk mendapatkan bantuan dalam situasi darurat.

## 1.4 Source Code

Berikut ini adalah Source dari Aplikasi Sipanjir yang kita buat,dan kami menguploadnya melalui Github,dan bisa diakses melalui link berikut:

- Login View



The screenshot shows the Apache NetBeans IDE interface with the Login\_Form.java file open in the editor. The code implements a login form with methods for authentication and role checking.

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
 */
package view;

import java.awt.Dimension;
import java.awt.Toolkit;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import util.KoneksiDB;
import javax.swing.JOptionPane;

/*
 * @author Dwi Prayoga
 */
public class Login_Form extends javax.swing.JFrame {

    private final KoneksiDB koneksi;

    public Login_Form() {
        initComponents();
        Dimension dim = Toolkit.getDefaultToolkit().getScreenSize();
        this.setLocation(dim.width/2 - this.getSize().width/2, dim.height/2 - this.getSize().height/2);
        koneksi = new KoneksiDB();
    }

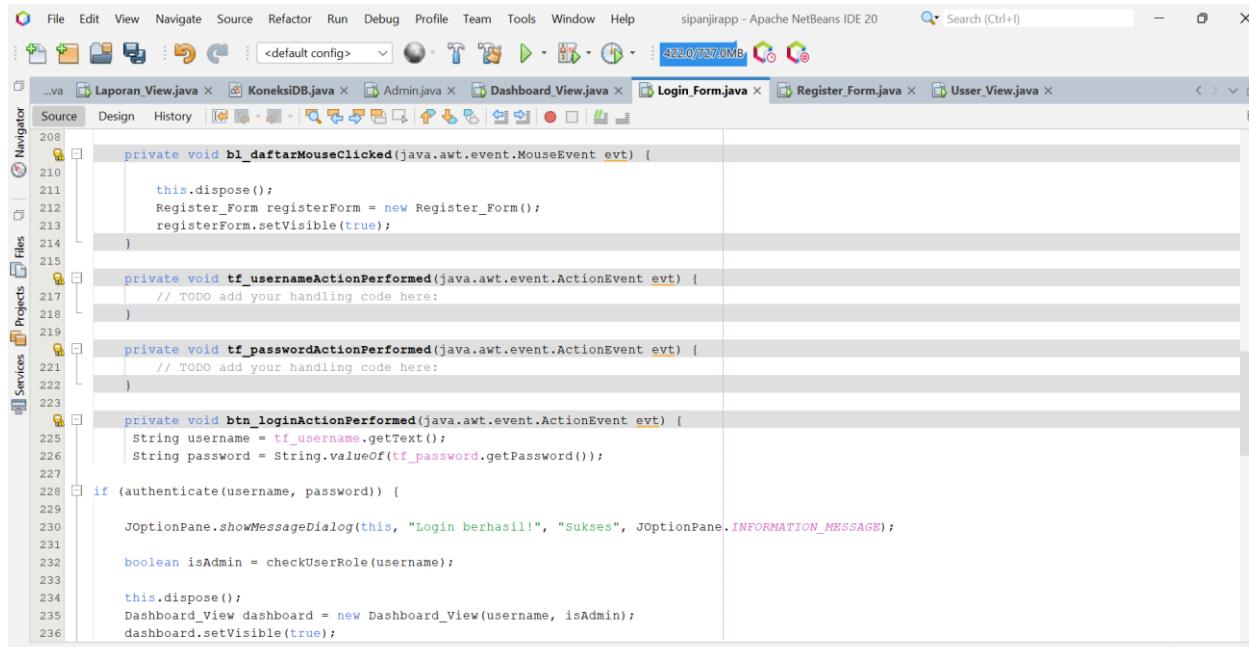
    private boolean authenticate(String username, String password) {
        Connection conn = koneksi.getConnection();
        String sql = "SELECT * FROM users WHERE username = ? AND password = ?";

        try (PreparedStatement stmt = conn.prepareStatement(sql)) {
            stmt.setString(1, username);
            stmt.setString(2, password);

            ResultSet rs = stmt.executeQuery();
            return rs.next();
        } catch (SQLException e) {
            System.err.println("Error saat autentifikasi: " + e.getMessage());
            return false;
        }
    }

    private boolean checkUserRole(String username) {
        if (username.equals("admin")) {
            return true; // Admin
        } else {
            return false; // Bukan admin
        }
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     */
}
```



Apache NetBeans IDE 20

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+F)

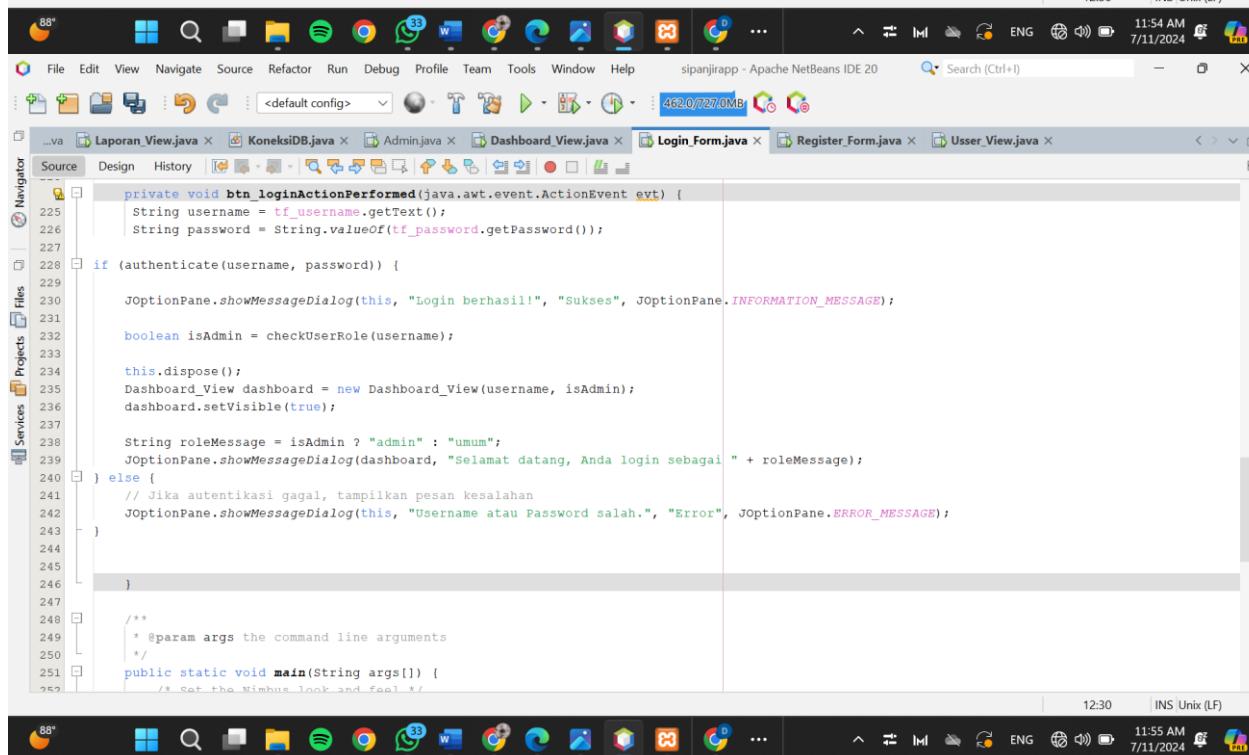
422.0/727.0MB

sipanjiapp - Apache NetBeans IDE 20

Laporan\_View.java KoneksiDB.java Admin.java Dashboard\_View.java Login\_Form.java Register\_Form.java Usser\_View.java

Source Design History

```
208     private void bl_daftarMouseClicked(java.awt.event.MouseEvent evt) {  
209         this.dispose();  
210         Register_Form registerForm = new Register_Form();  
211         registerForm.setVisible(true);  
212     }  
213  
214     private void tf_usernameActionPerformed(java.awt.event.ActionEvent evt) {  
215         // TODO add your handling code here:  
216     }  
217  
218     private void tf_passwordActionPerformed(java.awt.event.ActionEvent evt) {  
219         // TODO add your handling code here:  
220     }  
221  
222     private void btn_loginActionPerformed(java.awt.event.ActionEvent evt) {  
223         String username = tf_username.getText();  
224         String password = String.valueOf(tf_password.getPassword());  
225  
226         if (authenticate(username, password)) {  
227             JOptionPane.showMessageDialog(this, "Login berhasil!", "Sukses", JOptionPane.INFORMATION_MESSAGE);  
228             boolean isAdmin = checkUserRole(username);  
229             this.dispose();  
230             Dashboard_View dashboard = new Dashboard_View(username, isAdmin);  
231             dashboard.setVisible(true);  
232         }  
233     }  
234  
235     private void authenticate(String username, String password) {  
236         String roleMessage = isAdmin ? "admin" : "umum";  
237         JOptionPane.showMessageDialog(dashboard, "Selamat datang, Anda login sebagai " + roleMessage);  
238     }  
239     else {  
240         // Jika autentikasi gagal, tampilkan pesan kesalahan  
241         JOptionPane.showMessageDialog(this, "Username atau Password salah.", "Error", JOptionPane.ERROR_MESSAGE);  
242     }  
243 }  
244  
245 }  
246  
247  
248     /**  
249     * @param args the command line arguments  
250     */  
251 public static void main(String args[]) {  
252     /* Set the Nimbus look and feel */  
253 }
```



Apache NetBeans IDE 20

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

Search (Ctrl+F)

462.0/727.0MB

sipanjiapp - Apache NetBeans IDE 20

Laporan\_View.java KoneksiDB.java Admin.java Dashboard\_View.java Login\_Form.java Register\_Form.java Usser\_View.java

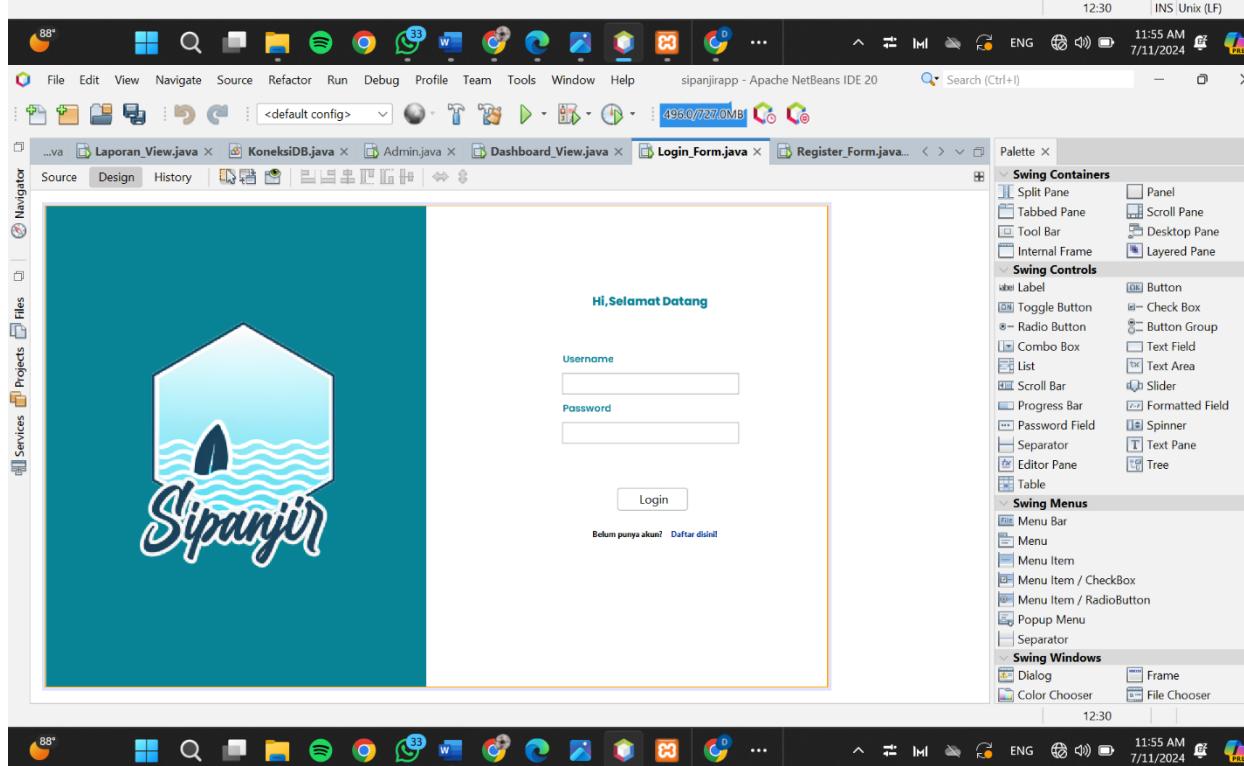
Source Design History

```
225     String username = tf_username.getText();  
226     String password = String.valueOf(tf_password.getPassword());  
227  
228     if (authenticate(username, password)) {  
229         JOptionPane.showMessageDialog(this, "Login berhasil!", "Sukses", JOptionPane.INFORMATION_MESSAGE);  
230         boolean isAdmin = checkUserRole(username);  
231         this.dispose();  
232         Dashboard_View dashboard = new Dashboard_View(username, isAdmin);  
233         dashboard.setVisible(true);  
234  
235         String roleMessage = isAdmin ? "admin" : "umum";  
236         JOptionPane.showMessageDialog(dashboard, "Selamat datang, Anda login sebagai " + roleMessage);  
237     }  
238     else {  
239         // Jika autentikasi gagal, tampilkan pesan kesalahan  
240         JOptionPane.showMessageDialog(this, "Username atau Password salah.", "Error", JOptionPane.ERROR_MESSAGE);  
241     }  
242 }  
243  
244 }  
245  
246  
247  
248     /**  
249     * @param args the command line arguments  
250     */  
251 public static void main(String args[]) {  
252     /* Set the Nimbus look and feel */  
253 }
```

The screenshot shows the Apache NetBeans IDE 20 interface. The title bar reads "sipanjarapp - Apache NetBeans IDE 20". The menu bar includes File, Edit, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help. The toolbar has various icons for file operations like Open, Save, Cut, Copy, Paste, Find, and Run. The status bar at the bottom right shows "4945/7270MB" and two circular progress indicators. The project navigation pane on the left lists files: Laporan\_View.java, KoneksiDB.java, Admin.java, Dashboard\_View.java, Login\_Form.java (selected), Register\_Form.java, and Usser\_View.java. The main editor area displays the Java code for Login\_Form.java, which includes a main method for creating and displaying the form.

```
File Edit Navigate Source Refactor Run Debug Profile Team Tools Window Help sipanjarapp - Apache NetBeans IDE 20 Search (Ctrl+I) ...va Laporan_View.java × KoneksiDB.java × Admin.java × Dashboard_View.java × Login_Form.java × Register_Form.java × Usser_View.java × Navigator Source Design History Projects Files Services
```

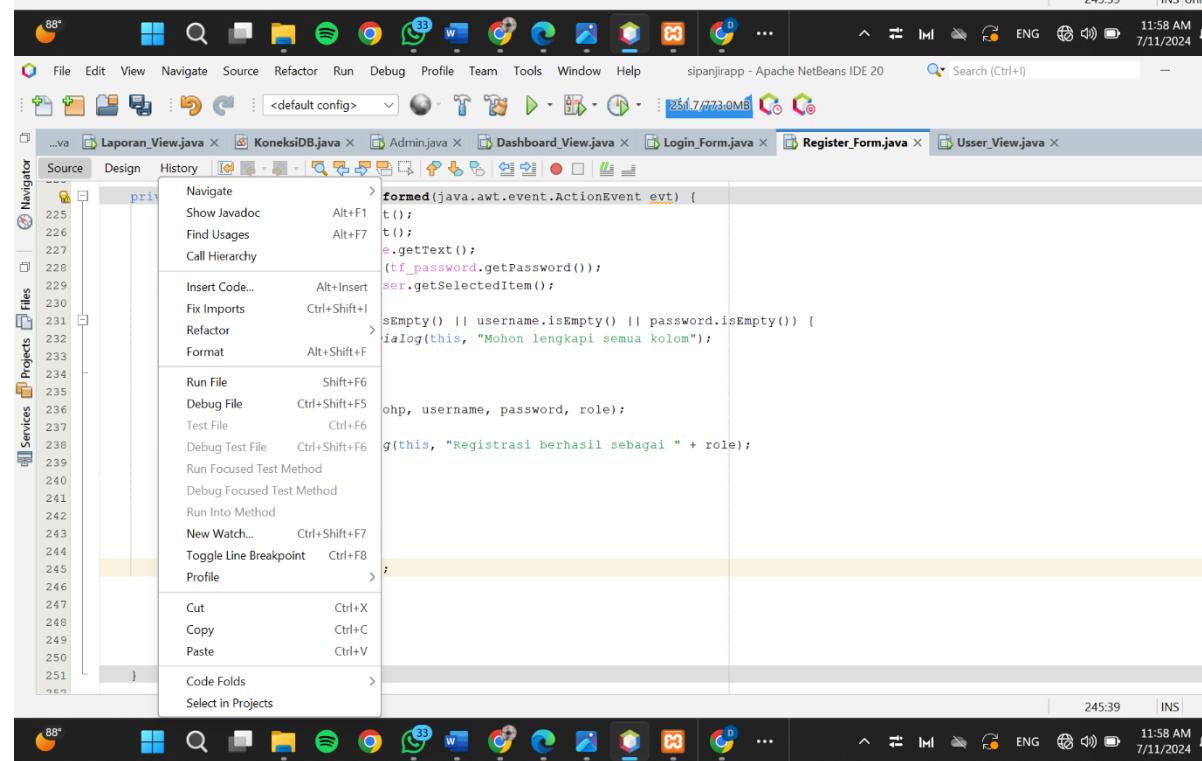
```
243 }
244 }
245 }
246 }
247 }
248 /**
249 * @param args the command line arguments
250 */
251 public static void main(String args[]) {
252     /* Set the Nimbus look and feel */
253     // Look and feel setting code (optional)
254
255     /* Create and display the form */
256     java.awt.EventQueue.invokeLater(new Runnable() {
257         public void run() {
258             new Login_Form().setVisible(true);
259         }
260     });
261 }
262
263 // Variables declaration - do not modify
264 private javax.swing.JLabel bl_daftar;
265 private javax.swing.JLabel btn_daftar;
266 private javax.swing.JButton btn_login;
267 private javax.swing.JLabel jLabel1;
268 private javax.swing.JLabel jLabel2;
269 private javax.swing.JLabel jLabel3;
270 private javax.swing.JLabel jLabel4;
271 private javax.swing.JPanel jPanel1;
```



- Registrasi View

The screenshot shows the Apache NetBeans IDE 20 interface. The title bar reads "sipanjiapp - Apache NetBeans IDE 20". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help. The toolbar has icons for file operations like Open, Save, Find, and Run. The status bar at the bottom right shows "6572/727.0MB" and some system icons. The code editor window displays the "Register\_Form.java" file. The code is as follows:

```
5 package view;
6 import java.awt.Dimension;
7 import java.awt.Toolkit;
8 import util.KoneksiDB;
9 import javax.swing.JOptionPane;
10
11 /**
12 * @author Dwi Prayoga
13 */
14 public class Register_Form extends javax.swing.JFrame {
15
16     /**
17      * Creates new form Register_Form
18      */
19     private KoneksiDB koneksiDB;
20
21     public Register_Form() {
22         initComponents();
23         koneksiDB = new KoneksiDB();
24         Dimension dim = Toolkit.getDefaultToolkit().getScreenSize();
25         this.setLocation(dim.width/2 - this.getSize().width/2, dim.height/2 - this.getSize().height/2);
26     }
27
28
29     /**
30      * This method is called from within the constructor to initialize the form.
31      * WARNING: Do NOT modify this code. The content of this method is always
32      * regenerated by the Form Editor.
33  }
```



Apache NetBeans IDE 20

```

private void btn_daftarActionPerformed(java.awt.event.ActionEvent evt) {
    String nama = tf_nama.getText();
    String nohp = tf_nohp.getText();
    String username = tf_username.getText();
    String password = new String(tf_password.getPassword());
    String role = (String) tf_usser.getSelectedItem();

    if (nama.isEmpty() || nohp.isEmpty() || username.isEmpty() || password.isEmpty()) {
        JOptionPane.showMessageDialog(this, "Mohon lengkapi semua kolom");
        return;
    }

    koneksiDB.insertUser(nama, nohp, username, password, role);
    JOptionPane.showMessageDialog(this, "Registrasi berhasil sebagai " + role);

    tf_nama.setText("");
    tf_nohp.setText("");
    tf_username.setText("");
    tf_password.setText("");
    tf_usser.setSelectedIndex(0);
}

```

Apache NetBeans IDE 20

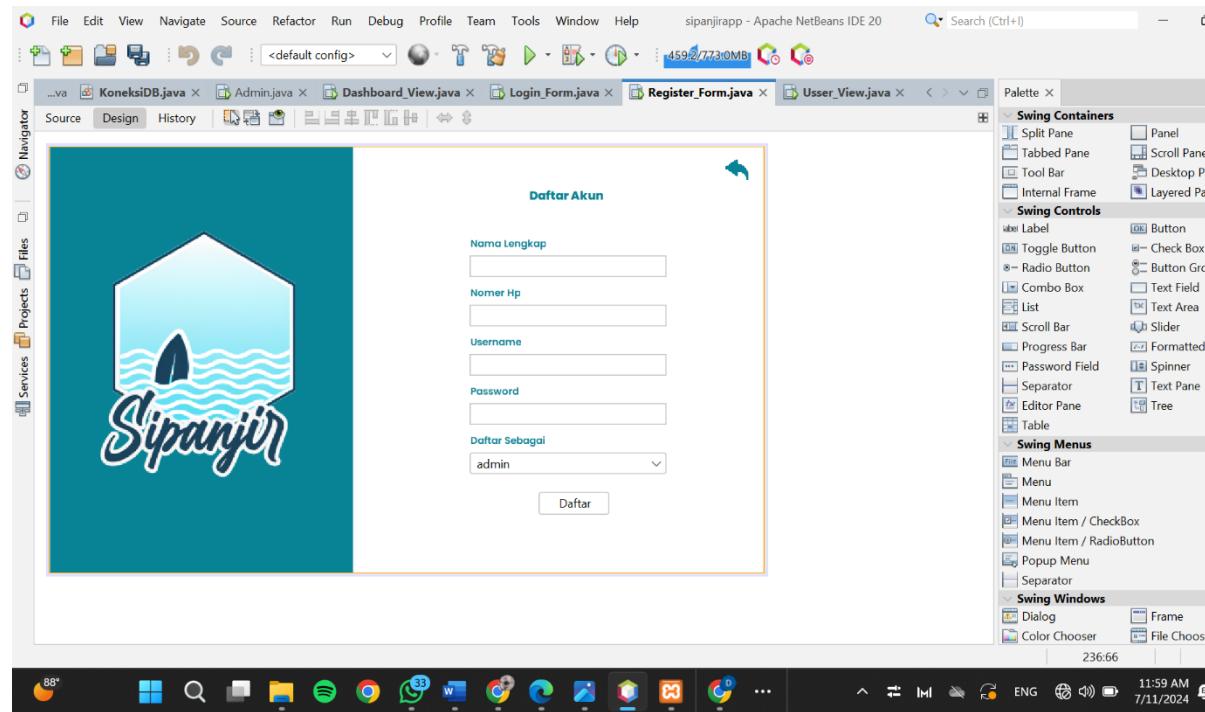
```

private void idj_KEMBALIMOUSECLICKED(java.awt.event.MouseEvent evt) {
    this.dispose();
    Login_Form login = new Login_Form();
    login.setVisible(true);
}

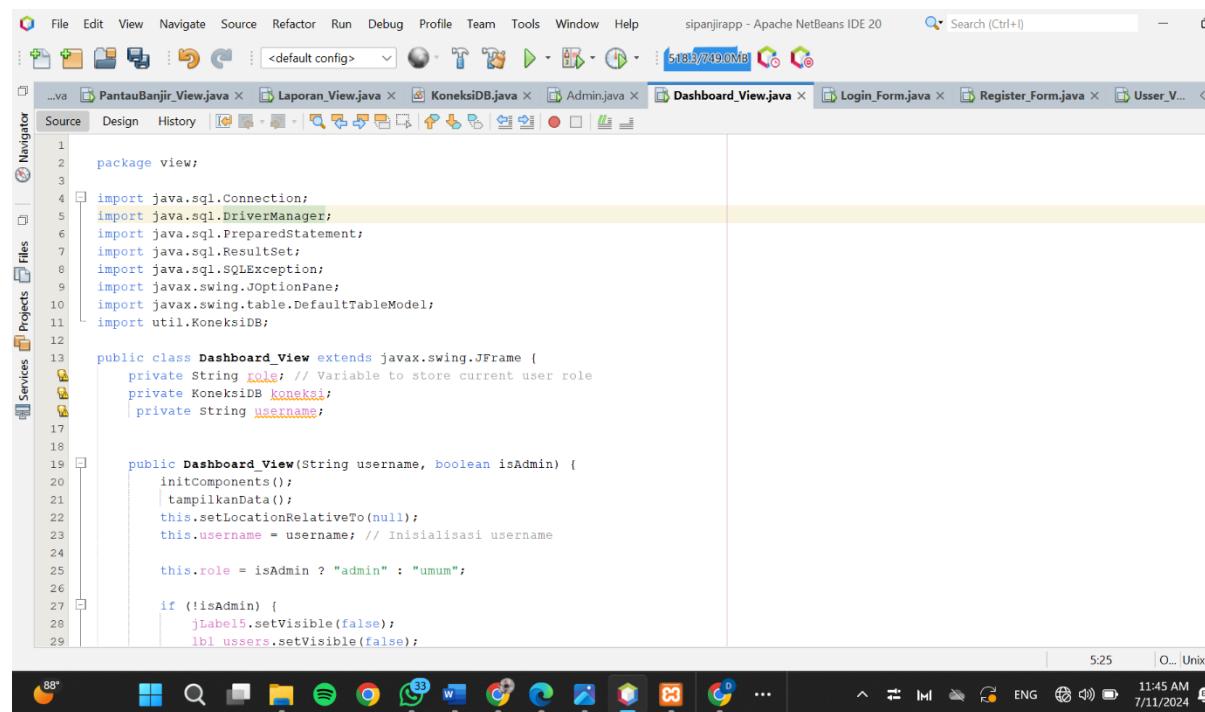
public static void main(String[] args) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException | InstantiationException | IllegalAccessException | javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Register_Form.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }

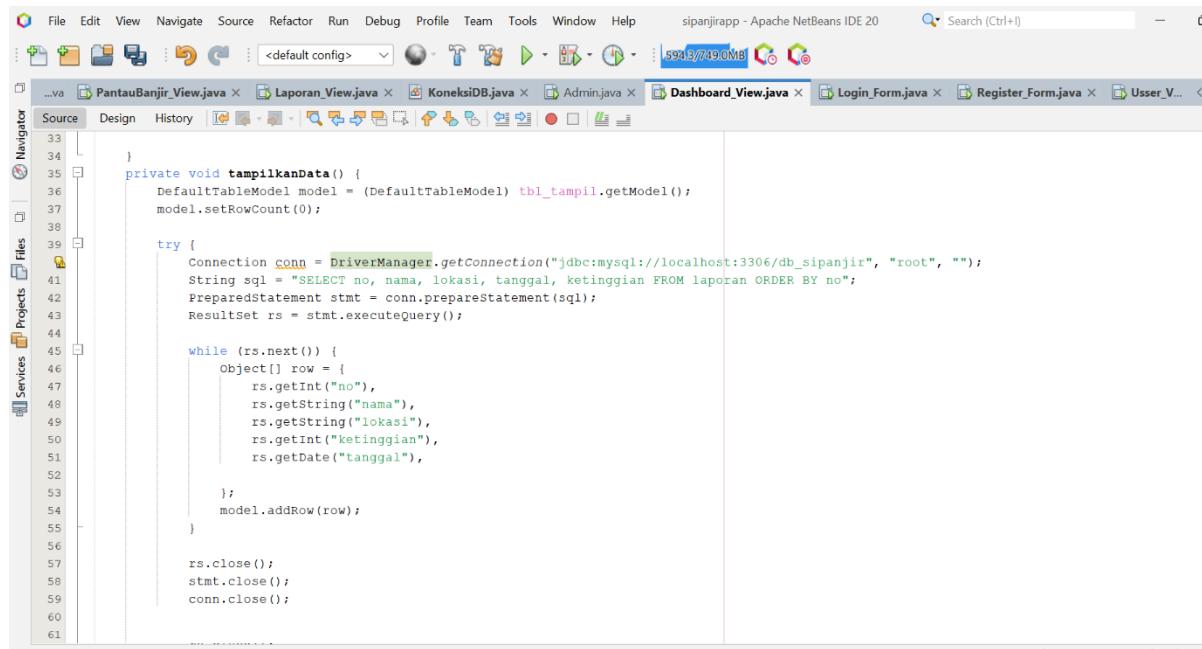
    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Register_Form().setVisible(true);
        }
    });
}

```



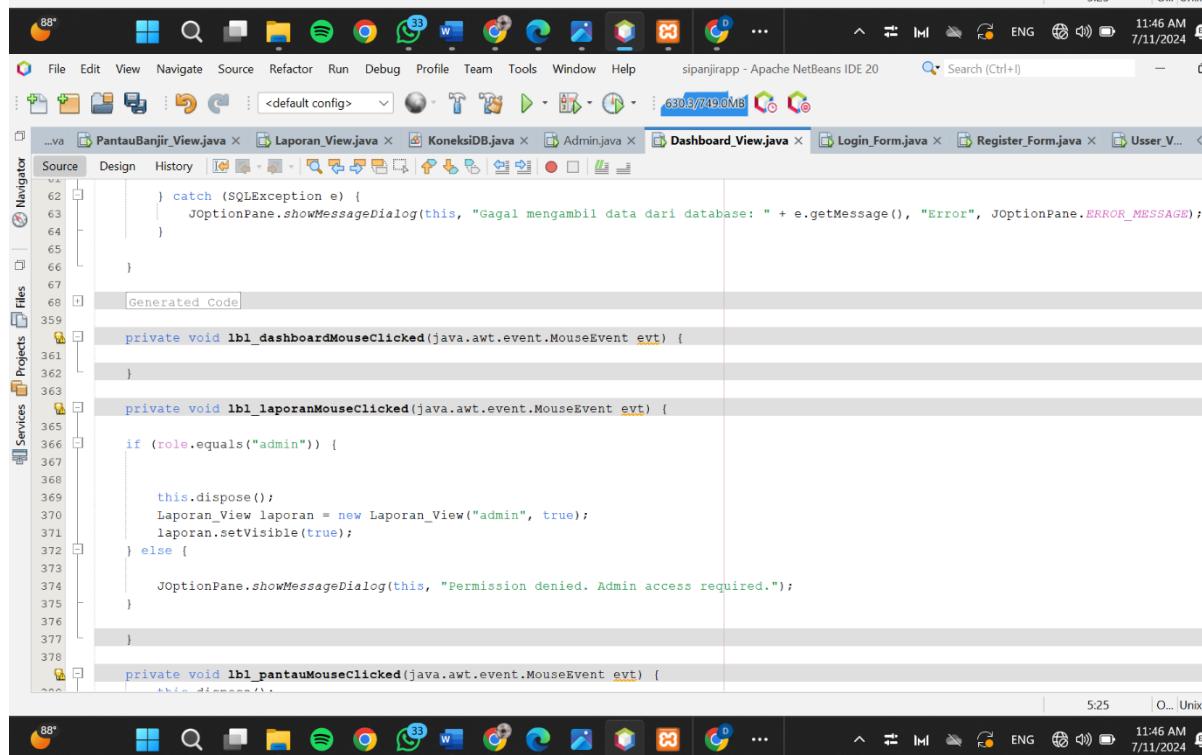
- Dashboard View





The screenshot shows the Apache NetBeans IDE interface with the following details:

- Toolbar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Status Bar:** sipanjiapp - Apache NetBeans IDE 20, Search (Ctrl+), 5943/749.0MB.
- Project Explorer:** Shows files like PantauBanjir\_View.java, Laporan\_View.java, KoneksiDB.java, Admin.java, Dashboard\_View.java, Login\_Form.java, Register\_Form.java, and Usser\_V...
- Code Editor:** Displays Java code for PantauBanjir\_View.java, specifically the `tampilkanData()` method which retrieves data from a MySQL database using JDBC.

The screenshot continues the Java code for PantauBanjir\_View.java, showing additional methods and logic:

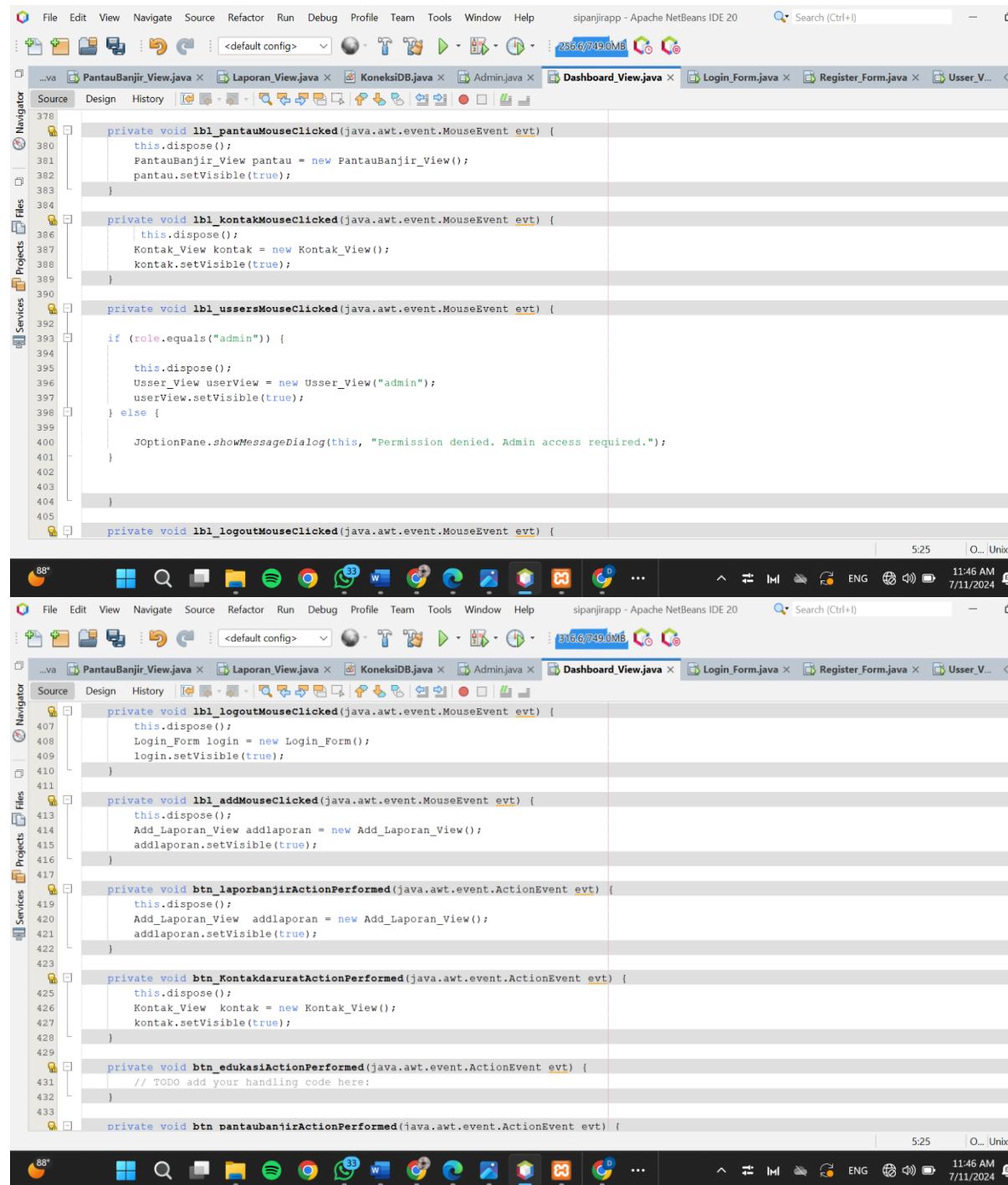
```
        } catch (SQLException e) {
            JOptionPane.showMessageDialog(this, "Gagal mengambil data dari database: " + e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE);
        }
    }

    private void lbl_dashboardMouseClicked(java.awt.event.MouseEvent evt) {
    }

    private void lbl_laporanMouseClicked(java.awt.event.MouseEvent evt) {
        if (role.equals("admin")) {
            this.dispose();
            Laporan_View laporan = new Laporan_View("admin", true);
            laporan.setVisible(true);
        } else {
            JOptionPane.showMessageDialog(this, "Permission denied. Admin access required.");
        }
    }

    private void lbl_pantauMouseClicked(java.awt.event.MouseEvent evt) {
        koneksiDB();
    }
}
```

The status bar at the bottom indicates: 88%, 5:25, 11:46 AM, 7/11/2024.



The screenshot shows the Apache NetBeans IDE 20 interface with the following details:

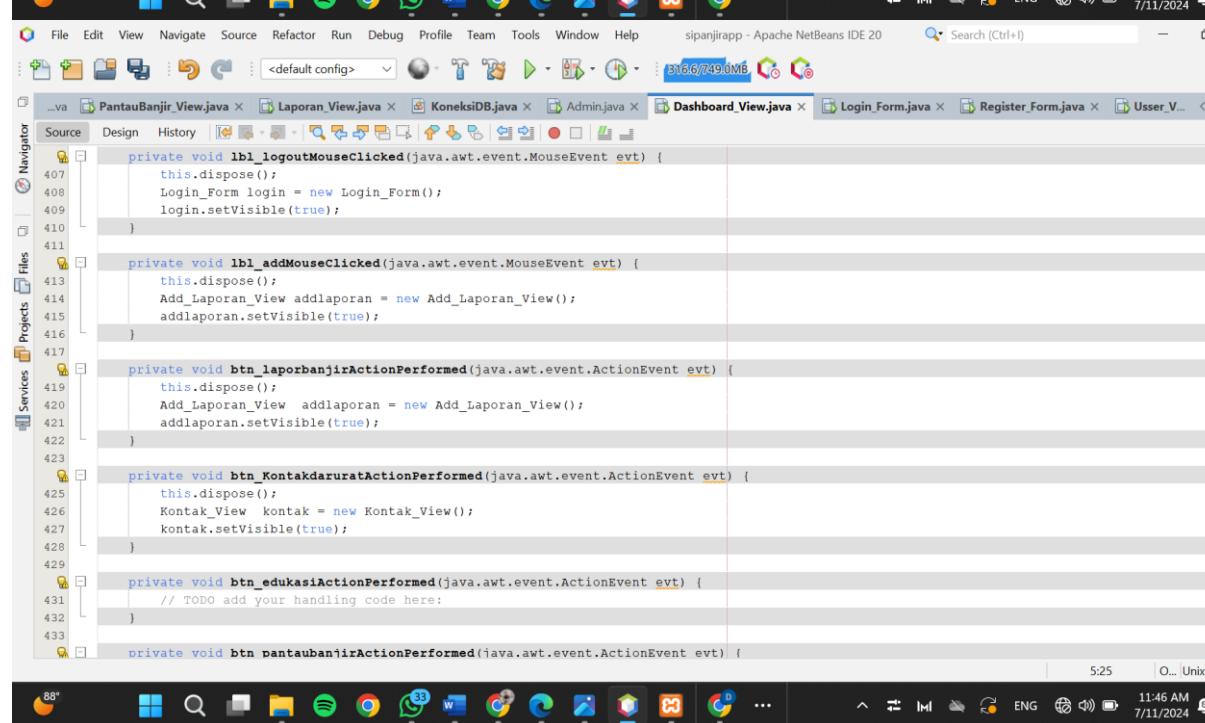
- Toolbar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Status Bar:** sipanjiapp - Apache NetBeans IDE 20, Search (Ctrl+), 256.6/749.0MB.
- Project Explorer:** Shows files like PantauBanjir\_View.java, Laporan\_View.java, KoneksiDB.java, Admin.java, Dashboard\_View.java, Login\_Form.java, Register\_Form.java, and Usser\_V...
- Navigator:** Shows the current file is PantauBanjir\_View.java, with tabs for Source, Design, History, and other icons.
- Code Editor:** Displays Java code for handling mouse events. The code includes methods for buttons labeled 'pantau', 'kontak', 'ussers', and 'logout'. It checks if the user has admin privileges before switching to the 'Usser\_View'.

```
private void lbl_pantauMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    PantauBanjir_View pantau = new PantauBanjir_View();
    pantau.setVisible(true);
}

private void lbl_kontakMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    Kontak_View kontak = new Kontak_View();
    kontak.setVisible(true);
}

private void lbl_ussersMouseClicked(java.awt.event.MouseEvent evt) {
    if (role.equals("admin")) {
        this.dispose();
        Usser_View userView = new Usser_View("admin");
        userView.setVisible(true);
    } else {
        JOptionPane.showMessageDialog(this, "Permission denied. Admin access required.");
    }
}

private void lbl_logoutMouseClicked(java.awt.event.MouseEvent evt) {
```

The second screenshot shows the same Apache NetBeans IDE 20 interface with the following details:

- Toolbar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Status Bar:** sipanjiapp - Apache NetBeans IDE 20, Search (Ctrl+), 316.6/749.0MB.
- Project Explorer:** Shows files like PantauBanjir\_View.java, Laporan\_View.java, KoneksiDB.java, Admin.java, Dashboard\_View.java, Login\_Form.java, Register\_Form.java, and Usser\_V...
- Navigator:** Shows the current file is PantauBanjir\_View.java, with tabs for Source, Design, History, and other icons.
- Code Editor:** Displays Java code for handling mouse events. The code includes methods for buttons labeled 'logout', 'add', 'laporanbanjir', 'Kontakdarurat', 'eduksi', and 'pantaubanjir'. It handles the disposal of the current window and the visibility of new windows like 'Login\_Form', 'Add\_Laporan\_View', and 'Add\_Laporan\_View'.

```
private void lbl_logoutMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    Login_Form login = new Login_Form();
    login.setVisible(true);
}

private void lbl_addMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    Add_Laporan_View addlaporan = new Add_Laporan_View();
    addlaporan.setVisible(true);
}

private void btn_laporanbanjirActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    Add_Laporan_View addlaporan = new Add_Laporan_View();
    addlaporan.setVisible(true);
}

private void btn_KontakdaruratActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    Kontak_View kontak = new Kontak_View();
    kontak.setVisible(true);
}

private void btn_edukasiActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void btn_pantaubanjirActionPerformed(java.awt.event.ActionEvent evt) {
```

Apache NetBeans IDE 20

```

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
sipanirapp - Apache NetBeans IDE 20
Search (Ctrl+)

```

PantauBanjir\_View.java

```

private void buat_PantauBanjirActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    PantauBanjir_View pantau = new PantauBanjir_View();
    pantau.setVisible(true);
}

public static void main(String args[]) {
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            Dashboard_View dashboard = new Dashboard_View("admin", true);
            dashboard.setVisible(true);
        }
    });
}

// Variables declaration - do not modify
private javax.swing.JButton btn_Kontakdarurat;
private javax.swing.JButton btn_edukasi;
private javax.swing.JButton btn_laporbanjir;
private javax.swing.JButton btn_pantaubanjir;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel12;
private javax.swing.JLabel jLabel13;
private javax.swing.JLabel jLabel14;

```

Dashboard\_View.java

Dashboard

Lapor Banjir      Pantau Banjir      Kontak Darurat      Edukasi

**Waspada!!!**

Telah Terjadi Banjir dengan Ketinggian bervariasi di Kota Semarang

No	Pelapor	Lokasi	Kedalaman (cm)	Waktu
----	---------	--------	----------------	-------

88°

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
sipanirapp - Apache NetBeans IDE 20
Search (Ctrl+)

Projects Services Files Navigator

Source Design History

Swing Containers

- Panel
- Tabbed Pane
- Tool Bar
- Internal Frame
- Layered Panel

Swing Controls

- Label
- Toggle Button
- Radio Button
- Combo Box
- List
- Scroll Bar
- Progress Bar
- Password Field
- Separator
- Editor Pane
- Table

Swing Menus

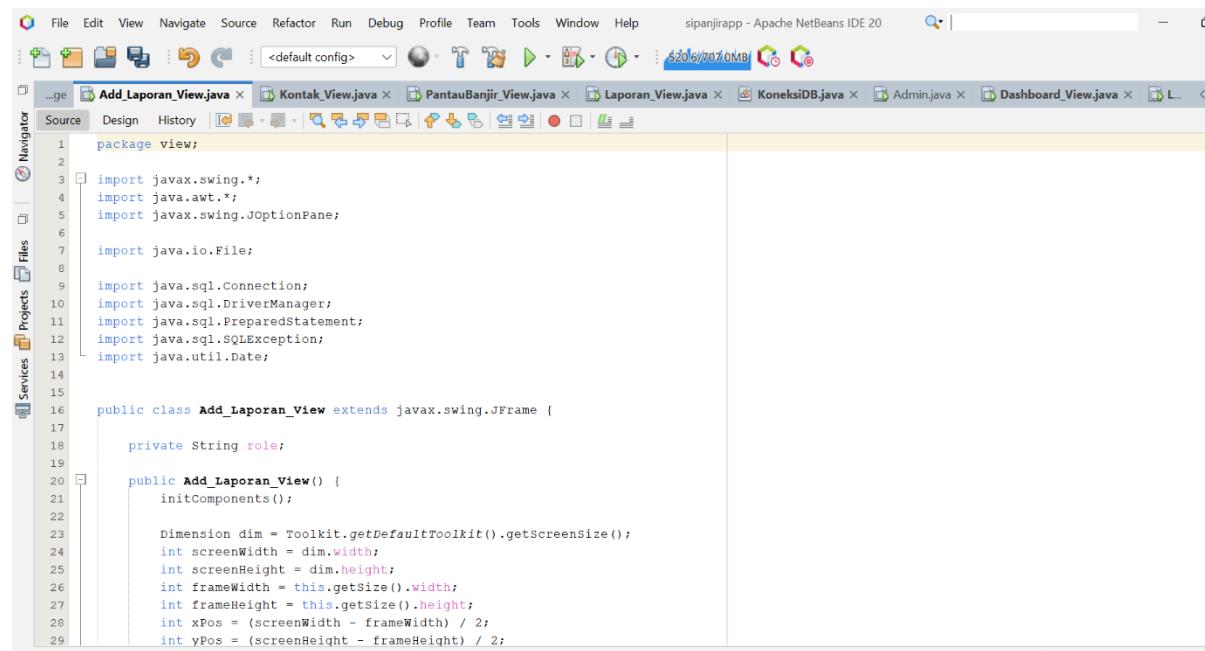
- MenuBar
- Menu
- MenuItem
- MenuItem / CheckBox
- MenuItem / RadioButton
- PopupMenu
- Separator

Swing Windows

- Dialog
- Color Chooser
- Frame
- FileChooser

5:25 11:46 AM 7/11/2024

- Add Laporan



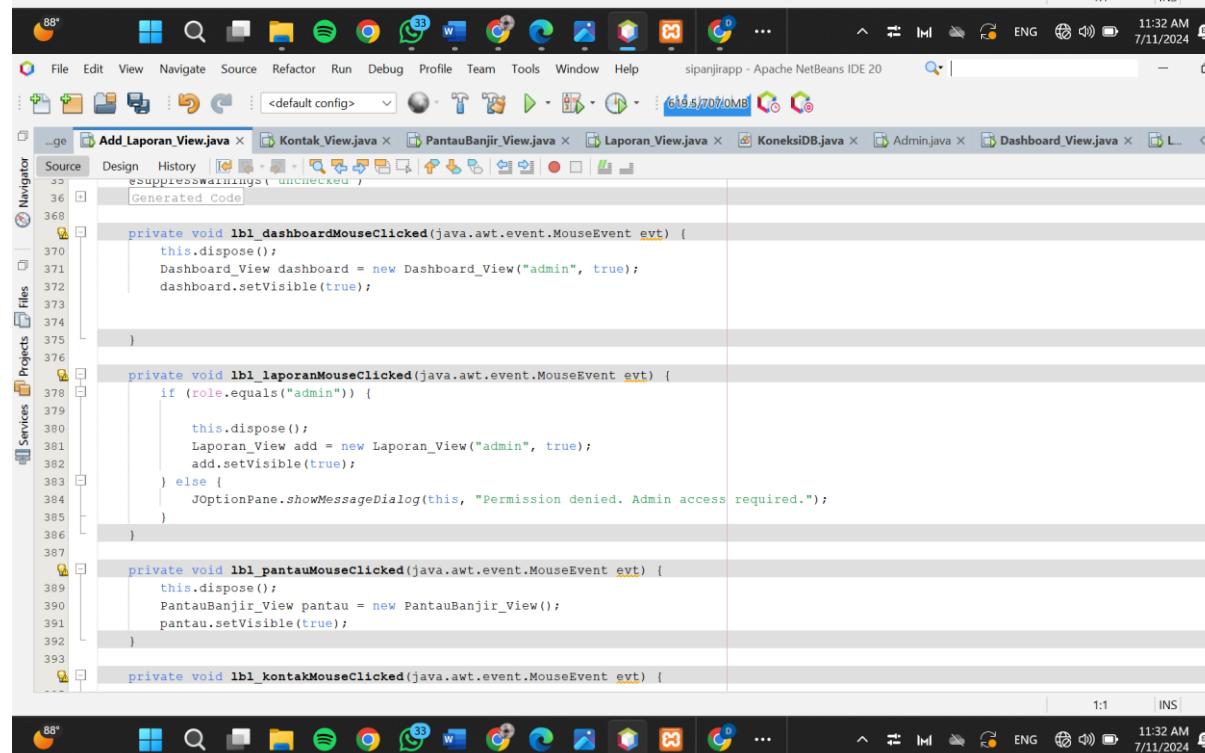
Apache NetBeans IDE 20

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help sipayirapp - Apache NetBeans IDE 20 5206/707.0MB 🔍 🔍 🔍
```

Add\_Laporan\_View.java

```
Source Design History
```

```
1 package view;
2
3 import javax.swing.*;
4 import java.awt.*;
5 import javax.swing.JOptionPane;
6
7 import java.io.File;
8
9 import java.sql.Connection;
10 import java.sql.DriverManager;
11 import java.sql.PreparedStatement;
12 import java.sql.SQLException;
13 import java.util.Date;
14
15
16 public class Add_Laporan_View extends javax.swing.JFrame {
17
18     private String role;
19
20     public Add_Laporan_View() {
21         initComponents();
22
23         Dimension dim = Toolkit.getDefaultToolkit().getScreenSize();
24         int screenWidth = dim.width;
25         int screenHeight = dim.height;
26         int frameWidth = this.getSize().width;
27         int frameHeight = this.getSize().height;
28         int xPos = (screenWidth - frameWidth) / 2;
29         int yPos = (screenHeight - frameHeight) / 2;
```



```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help sipayirapp - Apache NetBeans IDE 20 619.5/707.0MB 🔍 🔍 🔍
```

Add Laporan\_View.java

```
Source Design History
```

```
36     @SuppressWarnings("unchecked")
37     private void lbl_dashboardMouseClicked(java.awt.event.MouseEvent evt) {
38         this.dispose();
39         Dashboard_View dashboard = new Dashboard_View("admin", true);
40         dashboard.setVisible(true);
41     }
42
43     private void lbl_laporanMouseClicked(java.awt.event.MouseEvent evt) {
44         if (role.equals("admin")) {
45             this.dispose();
46             Laporan_View add = new Laporan_View("admin", true);
47             add.setVisible(true);
48         } else {
49             JOptionPane.showMessageDialog(this, "Permission denied. Admin access required.");
50         }
51     }
52
53     private void lbl_pantauMouseClicked(java.awt.event.MouseEvent evt) {
54         this.dispose();
55         PantauBanjir_View pantau = new PantauBanjir_View();
56         pantau.setVisible(true);
57     }
58
59     private void lbl_kontakMouseClicked(java.awt.event.MouseEvent evt) {
```

The screenshot shows two instances of the Apache NetBeans IDE interface. Both instances have the title bar "sipanirapp - Apache NetBeans IDE 20". The top instance displays the code for the `Add_Laporan_View.java` file. The code handles file selection via a JFileChooser and inserts data into a MySQL database using JDBC. The bottom instance also displays the same `Add_Laporan_View.java` file, showing the same code structure.

```
private void btn_chose_fileActionPerformed(java.awt.event.ActionEvent evt) {
    JFileChooser fileChooser = new JFileChooser();
    int returnValue = fileChooser.showOpenDialog(null);
    if (returnValue == JFileChooser.APPROVE_OPTION) {
        File selectedfile = fileChooser.getSelectedFile();

        tf_keterangan.setText(selectedfile.getName());

        ImageIcon imageIcon = new ImageIcon(selectedfile.getAbsolutePath());
        Image image = imageIcon.getImage().getScaledInstance(lbl_gambar.getWidth(), lbl_gambar.getHeight(), Image.SCALE_SMOOTH);
        lbl_gambar.setIcon(new ImageIcon(image));
    }
}

private void btn_tambahActionPerformed(java.awt.event.ActionEvent evt) {
    String nama = tf_nama.getText();
    Date tanggalValue = tanggal.getDate();
    String lokasi = tf_lokasi.getText();
    String ketinggian = tf_ketinggian.getText();
    String jmlKorban = tf_jmlkorban.getText();
    String keterangan = tf_keterangan.getText();

    if (nama.isEmpty() || tanggalValue == null || lokasi.isEmpty() || ketinggian.isEmpty() || jmlKorban.isEmpty() || keterangan.isEmpty())
        JOptionPane.showMessageDialog(this, "Semua kolom harus diisi", "Error", JOptionPane.ERROR_MESSAGE);
    return;
}

try {
    Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/db_sipanir", "root", "");
    String sql = "INSERT INTO laporan (nama, tanggal, lokasi, ketinggian, jml_korban, keterangan) VALUES (?, ?, ?, ?, ?, ?)";
    PreparedStatement stmt = conn.prepareStatement(sql);
    stmt.setString(1, nama);
    stmt.setDate(2, new java.sql.Date(tanggalValue.getTime()));
    stmt.setString(3, lokasi);
    stmt.setString(4, ketinggian);
    stmt.setString(5, jmlKorban);
    stmt.setString(6, keterangan);

    int rowsInserted = stmt.executeUpdate();
    if (rowsInserted > 0) {
        JOptionPane.showMessageDialog(this, "Laporan Sudah Kami Terima");
    }

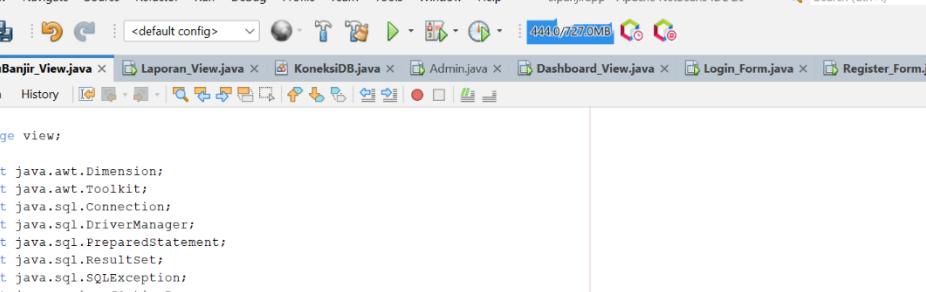
    stmt.close();
    conn.close();
} catch (SQLException e) {
    JOptionPane.showMessageDialog(this, "Error: " + e.getMessage(), "Database Error", JOptionPane.ERROR_MESSAGE);
}
}

/** 
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
}
```

- Pantau Banjir

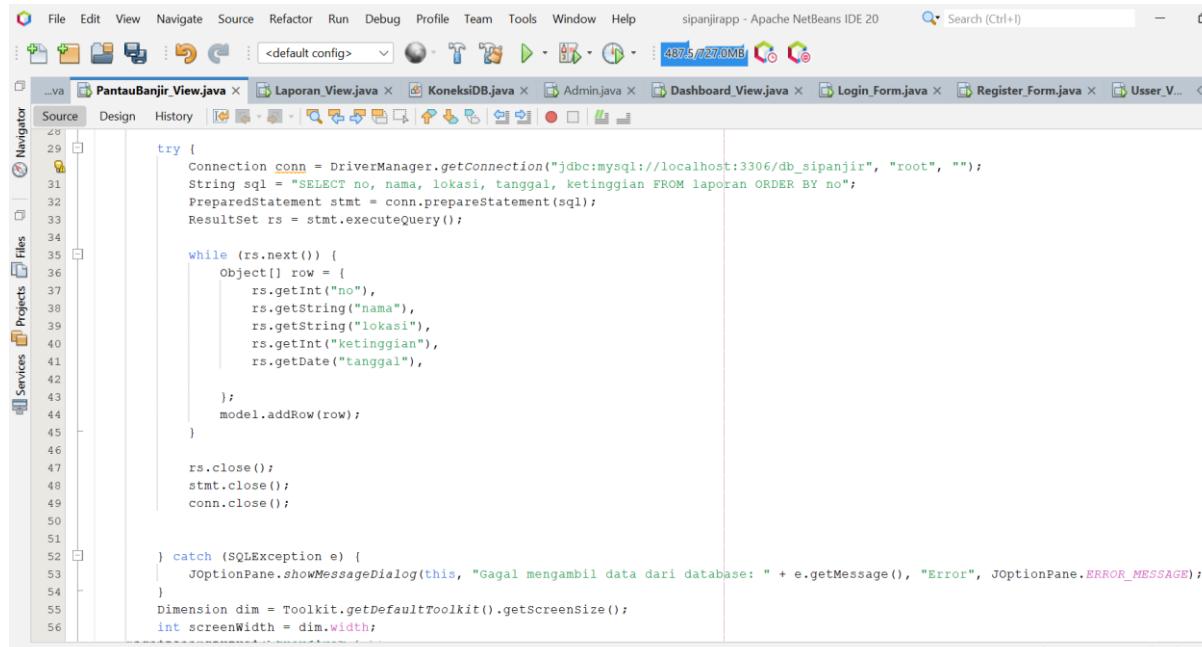
The screenshot shows the Apache NetBeans IDE interface with the title bar "sipanjirapp - Apache NetBeans IDE 20". The left sidebar includes icons for Navigator, Files, Projects, and Services. The main window displays the code editor for a Java file named "Login\_Form.java". The code is as follows:

```
1  /*
2  * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  * Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template
4  */
5 package view;
6
7 import java.awt.Dimension;
8 import java.awt.Toolkit;
9 import java.sql.Connection;
10 import java.sql.PreparedStatement;
11 import java.sql.ResultSet;
12 import java.sql.SQLException;
13 import util.KoneksiDB;
14 import util.KoneksidB;
15 import javax.swing.JOptionPane;
16
17 /**
18 * @author Dwi Prayoga
19 */
20 public class Login_Form extends javax.swing.JFrame {
21
22     private final KoneksiDB koneksi;
23
24     public Login_Form() {
25         initComponents();
26         Dimension dim = Toolkit.getDefaultToolkit().getScreenSize();
27         this.setLocation(dim.width/2 - this.getSize().width/2, dim.height/2 - this.getSize().height/2);
28         koneksi = new KoneksiDB();
29     }
30 }
```



The screenshot shows the NetBeans IDE interface with the title bar "sipanjarapp - Apache NetBeans IDE 20". The left sidebar includes "Navigator", "Files", and "Services" sections. The main area displays the source code for "PantauBanjir\_View.java". The code imports various Java packages related to AWT, JDBC, and Swing, and defines a class "PantauBanjir\_View" that extends "JFrame". It includes methods for initializing components and displaying data from a database using a "DefaultTableModel".

```
1 package view;
2
3
4 import java.awt.Dimension;
5 import java.awt.Toolkit;
6 import java.sql.Connection;
7 import java.sql.DriverManager;
8 import java.sql.PreparedStatement;
9 import java.sql.ResultSet;
10 import java.sql.SQLException;
11 import javax.swing.JOptionPane;
12 import javax.swing.table.DefaultTableModel;
13
14
15 public class PantauBanjir_View extends javax.swing.JFrame {
16
17     private String role;
18
19     public PantauBanjir_View() {
20         initComponents();
21         tampilkanData();
22     }
23
24
25     private void tampilkanData() {
26         DefaultTableModel model = (DefaultTableModel) tbl_tampil.getModel();
27         model.setRowCount(0);
28
29         try {
30             Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/pantaubanjir", "root", "");
31             Statement stat = conn.createStatement();
32             ResultSet rs = stat.executeQuery("SELECT * FROM user");
33
34             while (rs.next()) {
35                 Object[] data = {rs.getString("id"), rs.getString("username"), rs.getString("password"), rs.getString("role")};
36                 model.addRow(data);
37             }
38         } catch (SQLException ex) {
39             JOptionPane.showMessageDialog(null, "Error: " + ex.getMessage());
40         }
41     }
42
43 }
```



The screenshot shows the Apache NetBeans IDE interface with the following details:

- Title Bar:** File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
- Project Tab:** PantauBanjir.View.java, Laporan\_View.java, KoneksiDB.java, Admin.java, Dashboard\_View.java, Login\_Form.java, Register\_Form.java, Usser.V...
- Toolbar:** Standard NetBeans toolbar.
- Status Bar:** sipanjiapp - Apache NetBeans IDE 20 4875/727.0MB
- Code Editor:** The code is for the `PantauBanjir.View.java` file. It contains a try-catch block for reading data from a MySQL database. The code uses JDBC to connect to the database and retrieve rows of data. It then adds each row to a model. Finally, it closes the connection, statement, and result set. A catch block handles `SQLException` by displaying an error message dialog.

```
try {
    Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/db_sipanjir", "root", "");
    String sql = "SELECT no, nama, lokasi, tanggal, ketinggian FROM laporan ORDER BY no";
    PreparedStatement stmt = conn.prepareStatement(sql);
    ResultSet rs = stmt.executeQuery();

    while (rs.next()) {
        Object[] row = {
            rs.getInt("no"),
            rs.getString("nama"),
            rs.getString("lokasi"),
            rs.getInt("ketinggian"),
            rs.getDate("tanggal"),
        };
        model.addRow(row);
    }
    rs.close();
    stmt.close();
    conn.close();
} catch (SQLException e) {
    JOptionPane.showMessageDialog(this, "Gagal mengambil data dari database: " + e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE);
}
```

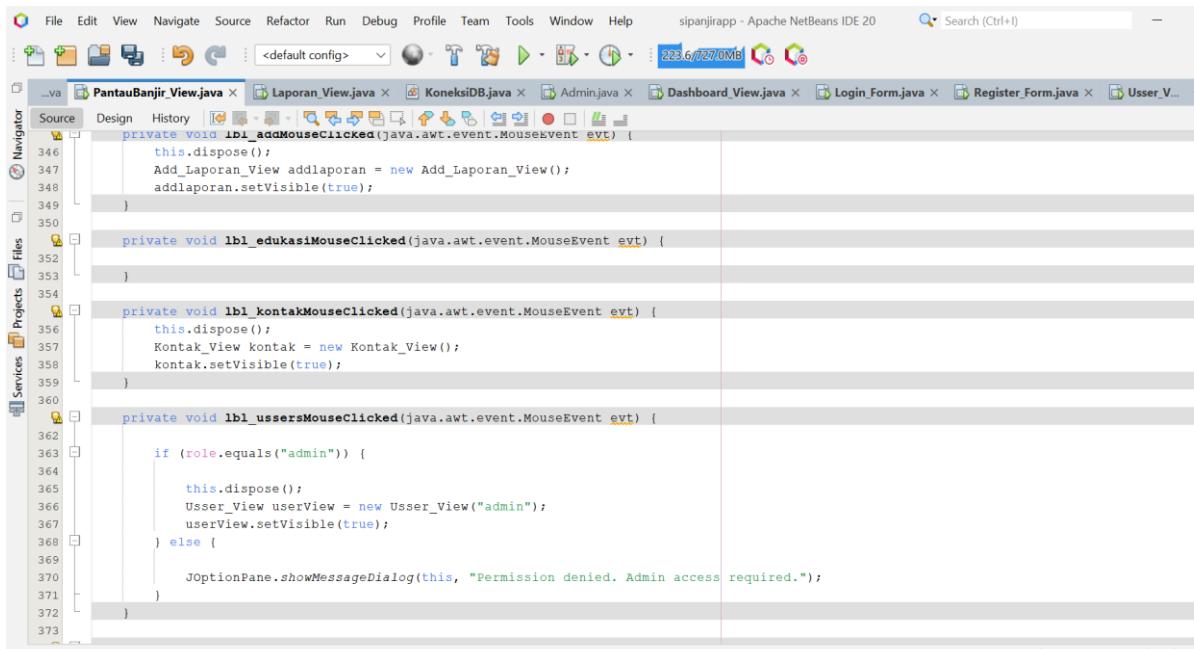
- Code Editor Bottom:** Shows the code for the constructor and mouse click event handlers.

```
Dimension dim = Toolkit.getDefaultToolkit().getScreenSize();
int screenWidth = dim.width;
int screenHeight = dim.height;
int frameWidth = this.getSize().width;
int frameHeight = this.getSize().height;
int xPos = (screenWidth - frameWidth) / 2;
int yPos = (screenHeight - frameHeight) / 2;
this.setLocation(xPos, yPos);

/*
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
Generated Code
```

```
private void lbl_dashboardMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    Dashboard_View dashboard = new Dashboard_View("admin", true);
    dashboard.setVisible(true);
}

private void lbl_addMouseClicked(java.awt.event.MouseEvent evt) {
```



```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help sipanjiapp - Apache NetBeans IDE 20 Search (Ctrl+I)
... PantauBanjir.View.java Laporan_View.java KoneksiDB.java Admin.java Dashboard_View.java Login_Form.java Register_Form.java Usser.V...
Navigator Source Design History <default config> ... 223.6/227.0MB Q C
Projects Files Services
private void lbl_addMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    Add_Laporan_View addlaporan = new Add_Laporan_View();
    addlaporan.setVisible(true);
}

private void lbl_edukasiMouseClicked(java.awt.event.MouseEvent evt) {
}

private void lbl_kontakMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    Kontak_View kontak = new Kontak_View();
    kontak.setVisible(true);
}

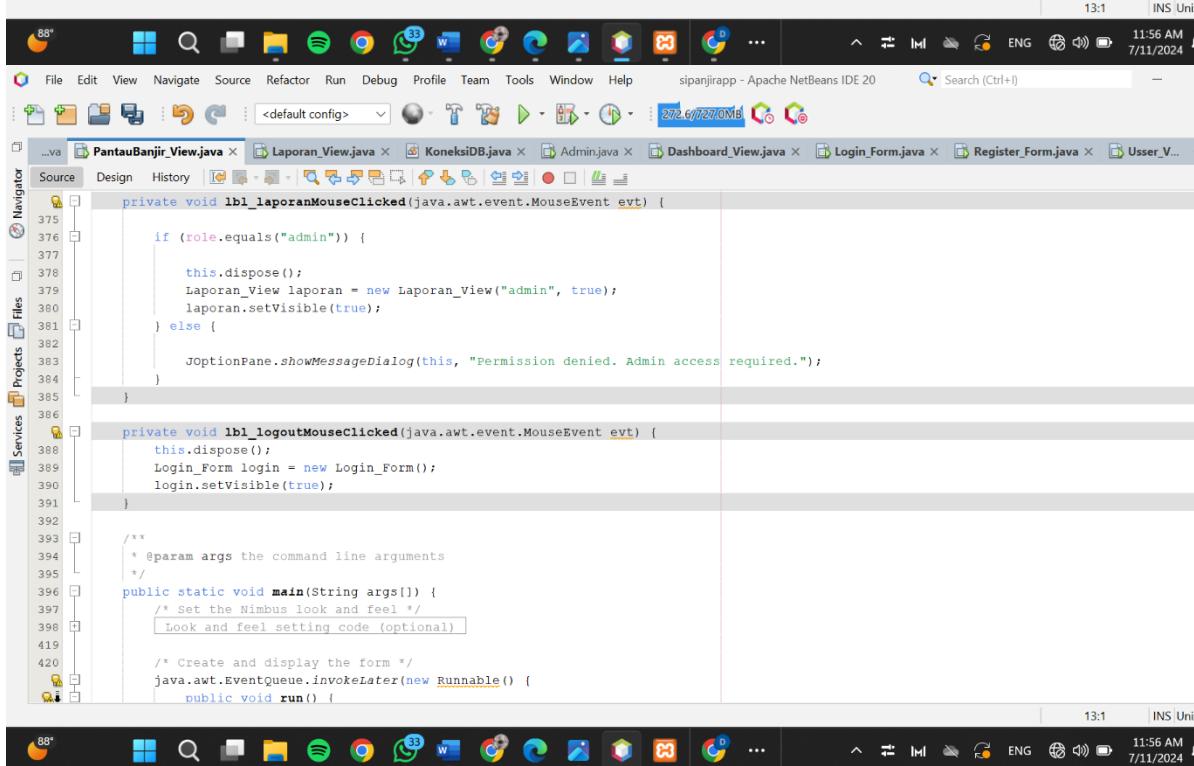
private void lbl_usserMouseClicked(java.awt.event.MouseEvent evt) {
    if (role.equals("admin")) {
        this.dispose();
        Usser_View userView = new Usser_View("admin");
        userView.setVisible(true);
    } else {
        JOptionPane.showMessageDialog(this, "Permission denied. Admin access required.");
    }
}

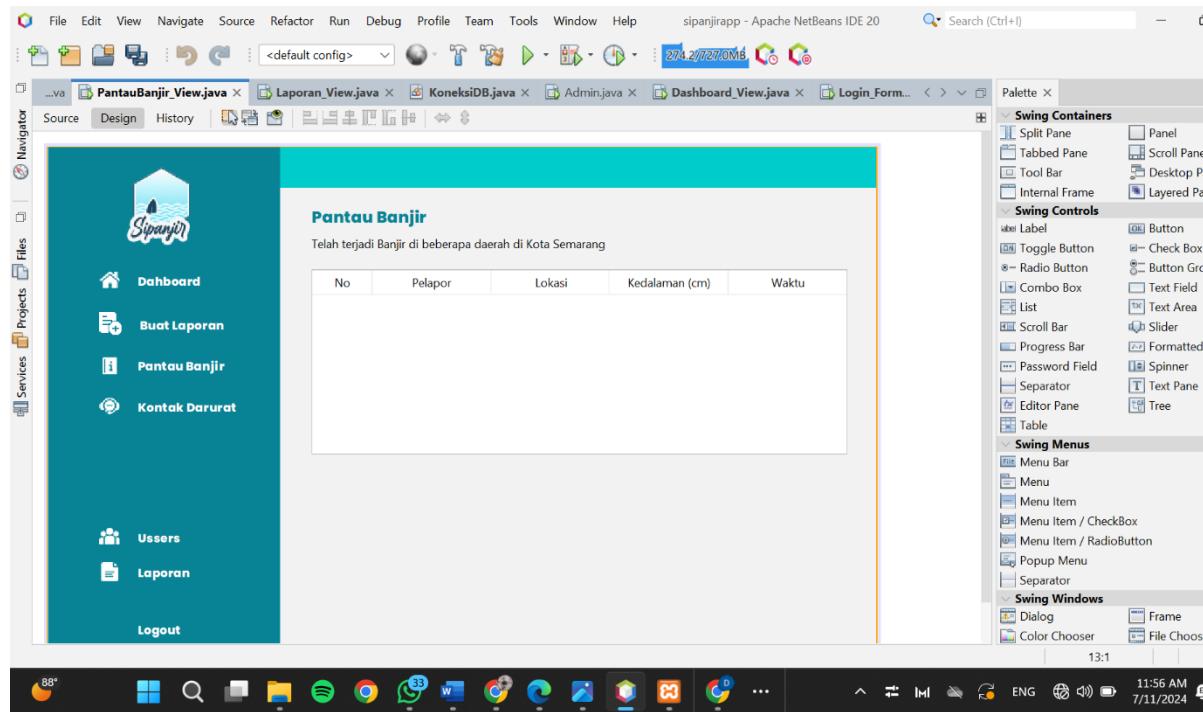
private void lbl_laporanMouseClicked(java.awt.event.MouseEvent evt) {
    if (role.equals("admin")) {
        this.dispose();
        Laporan_View laporan = new Laporan_View("admin", true);
        laporan.setVisible(true);
    } else {
        JOptionPane.showMessageDialog(this, "Permission denied. Admin access required.");
    }
}

private void lbl_logoutMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    Login_Form login = new Login_Form();
    login.setVisible(true);
}

/*
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    LookAndFeel.setLookAndFeel("Nimbus");
    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {

```





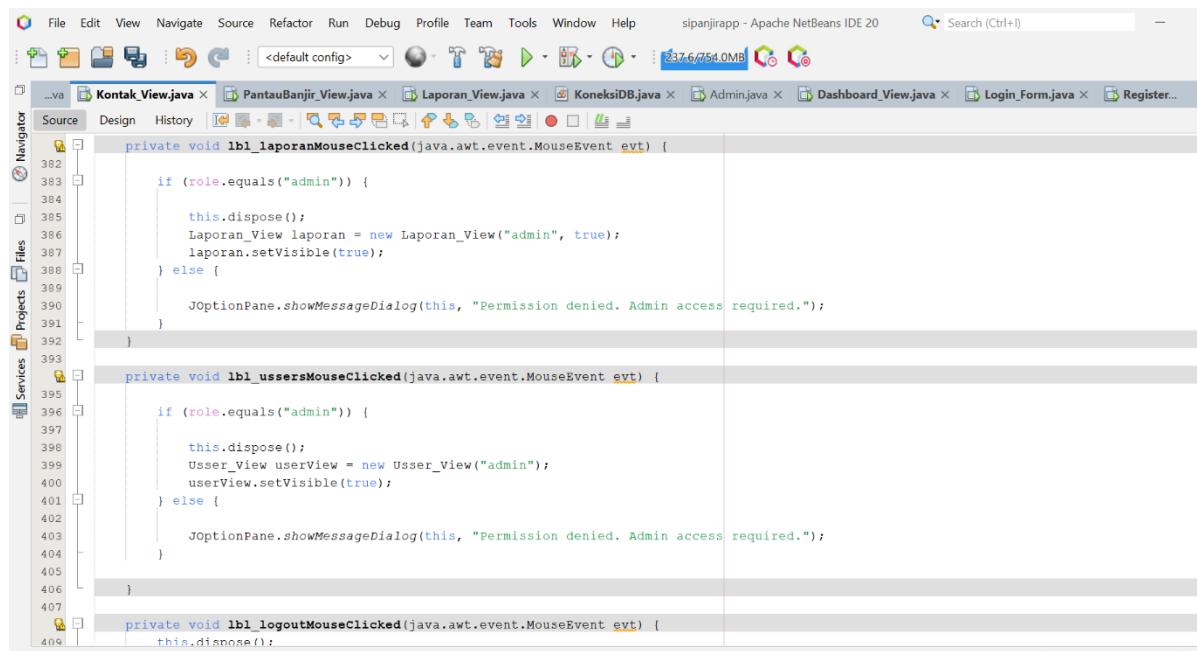
- Kontak View

The screenshot shows the Apache NetBeans IDE interface with the following details:

- Toolbar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Title Bar:** sipanjirapp - Apache NetBeans IDE 20, Search (Ctrl+I).
- Project Explorer (Projects tab):** Shows a project named "...va".
- Navigator:** Shows the current file is Kontak\_View.java.
- Source Tab:** Active tab, showing the Java code for Kontak\_View.java.
- Code Editor:** The code is as follows:

```
1 package view;
2
3
4 import java.awt.Dimension;
5 import java.awt.Toolkit;
6 import javax.swing.JOptionPane;
7 import java.awt.Desktop;
8 import java.net.URI;
9
10
11 public class Kontak_View extends javax.swing.JFrame {
12
13     private String role;
14
15     public Kontak_View() {
16         initComponents();
17         Dimension dim = Toolkit.getDefaultToolkit().getScreenSize();
18         int screenWidth = dim.width;
19         int screenHeight = dim.height;
20         int frameWidth = this.getSize().width;
21         int frameHeight = this.getSize().height;
22         int xPos = (screenWidth - frameWidth) / 2;
23         int yPos = (screenHeight - frameHeight) / 2;
24         this.setLocation(xPos, yPos);
25     }
26
27     /**
28      * This method is called from within the constructor to initialize the form.
29      * WARNING: Do NOT modify this code. The content of this method is always
30      */
31 }
```

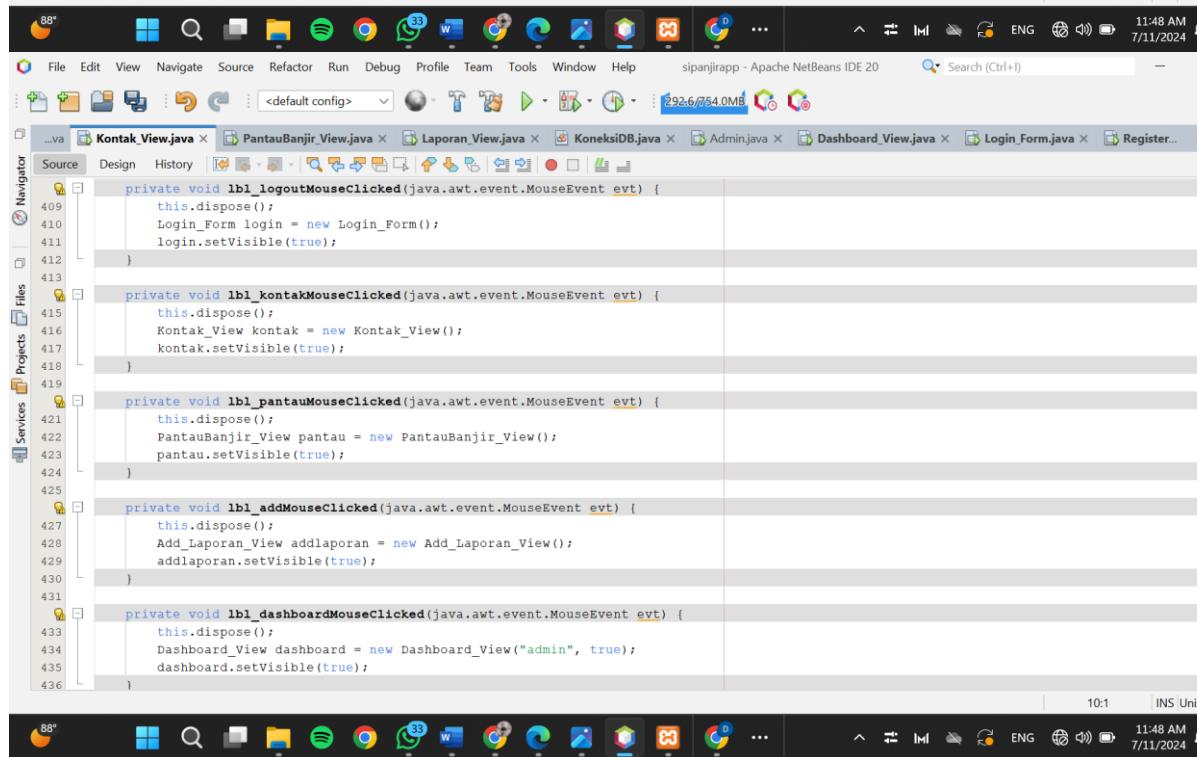
The code defines a Java class named Kontak\_View that extends javax.swing.JFrame. It includes methods for initializing components and setting the window's position relative to the screen size.



```
private void lbl_laporanMouseClicked(java.awt.event.MouseEvent evt) {
    if (role.equals("admin")) {
        this.dispose();
        Laporan_View laporan = new Laporan_View("admin", true);
        laporan.setVisible(true);
    } else {
        JOptionPane.showMessageDialog(this, "Permission denied. Admin access required.");
    }
}

private void lbl_usserMouseClicked(java.awt.event.MouseEvent evt) {
    if (role.equals("admin")) {
        this.dispose();
        Usser_View userView = new Usser_View("admin");
        userView.setVisible(true);
    } else {
        JOptionPane.showMessageDialog(this, "Permission denied. Admin access required.");
    }
}

private void lbl_logoutMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
}
```



```
private void lbl_logoutMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    Login_Form login = new Login_Form();
    login.setVisible(true);
}

private void lbl_kontakMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    Kontak_View kontak = new Kontak_View();
    kontak.setVisible(true);
}

private void lbl_pantauMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    PantauBanjir_View pantau = new PantauBanjir_View();
    pantau.setVisible(true);
}

private void lbl_addMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    Add_Laporan_View addlaporan = new Add_Laporan_View();
    addlaporan.setVisible(true);
}

private void lbl_dashboardMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    Dashboard_View dashboard = new Dashboard_View("admin", true);
    dashboard.setVisible(true);
}
```

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Kontak\_View.java

```
private void btn_polisiMouseClicked(java.awt.event.MouseEvent evt) {
    String url = "https://polri.go.id/110";
    try {
        Desktop desktop = java.awt.Desktop.getDesktop();
        if (desktop.isSupported(Desktop.Action.BROWSE)) {
            desktop.browse(new URI(url));
        }
    } catch (Exception e) {
        e.printStackTrace();
    }
}

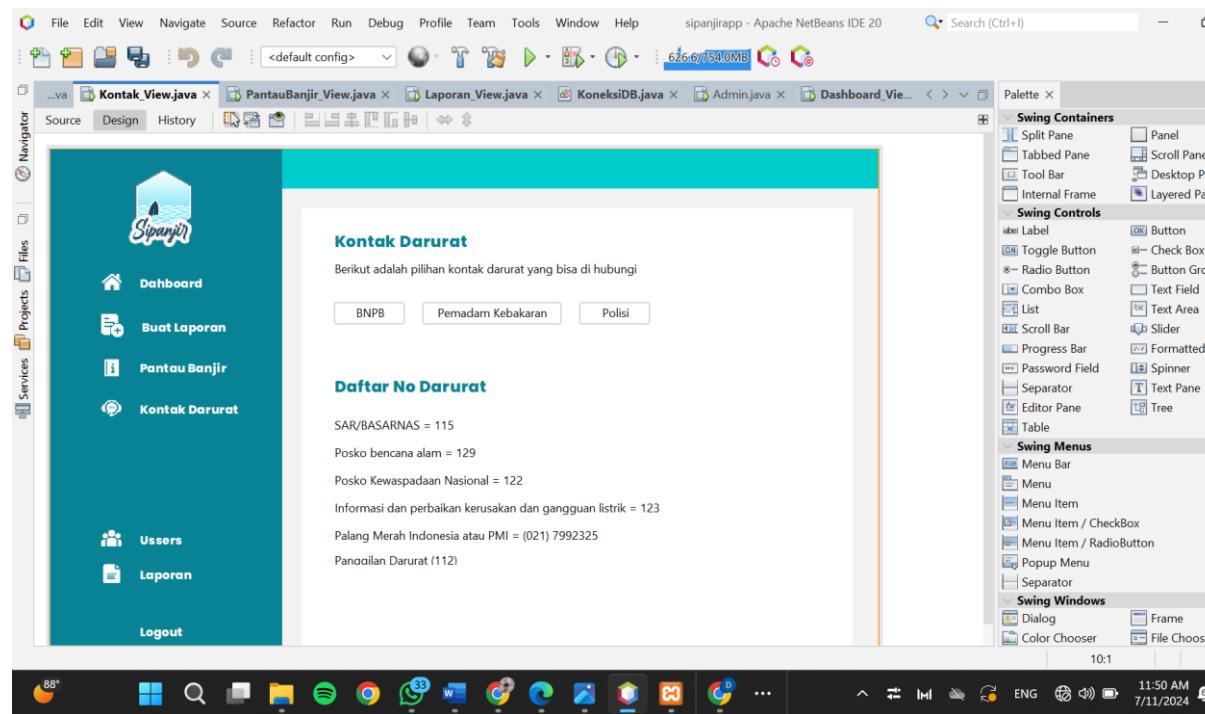
private void tf_damkarMouseClicked(java.awt.event.MouseEvent evt) {
    String url = "https://layanan112.kominfgo.id/tentang";
    try {
        Desktop desktop = java.awt.Desktop.getDesktop();
        if (desktop.isSupported(Desktop.Action.BROWSE)) {
            desktop.browse(new URI(url));
        }
    } catch (Exception e) {
        e.printStackTrace();
    }
}
```

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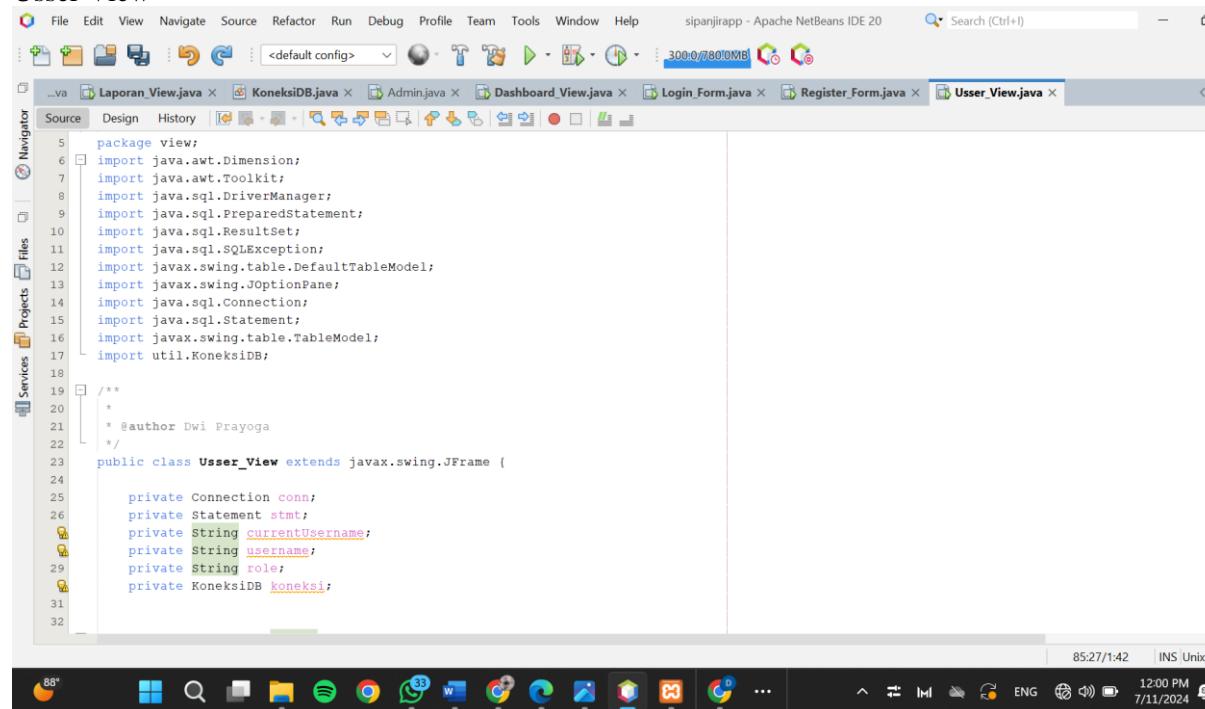
Kontak\_View.java

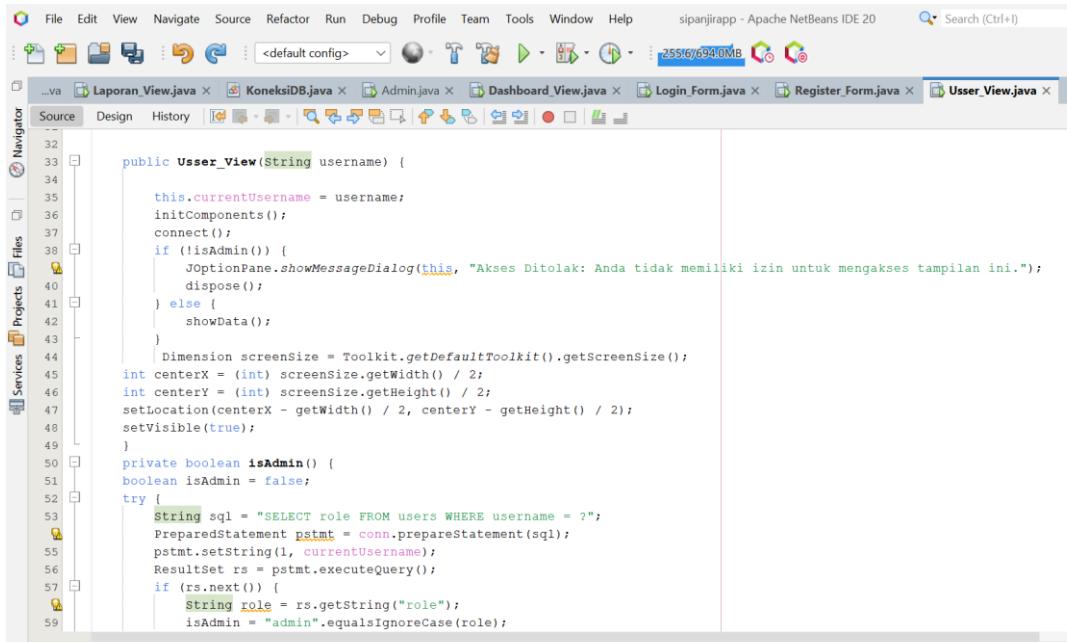
```
private void btn_bnpbMouseClicked(java.awt.event.MouseEvent evt) {
    String url = "https://www.bnbp.go.id/";
    try {
        Desktop desktop = java.awt.Desktop.getDesktop();
        if (desktop.isSupported(Desktop.Action.BROWSE)) {
            desktop.browse(new URI(url));
        }
    } catch (Exception e) {
        e.printStackTrace();
    }
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    LookAndFeel.setLookAndFeel("Nimbus");
    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Kontak_View().setVisible(true);
        }
    });
}
```

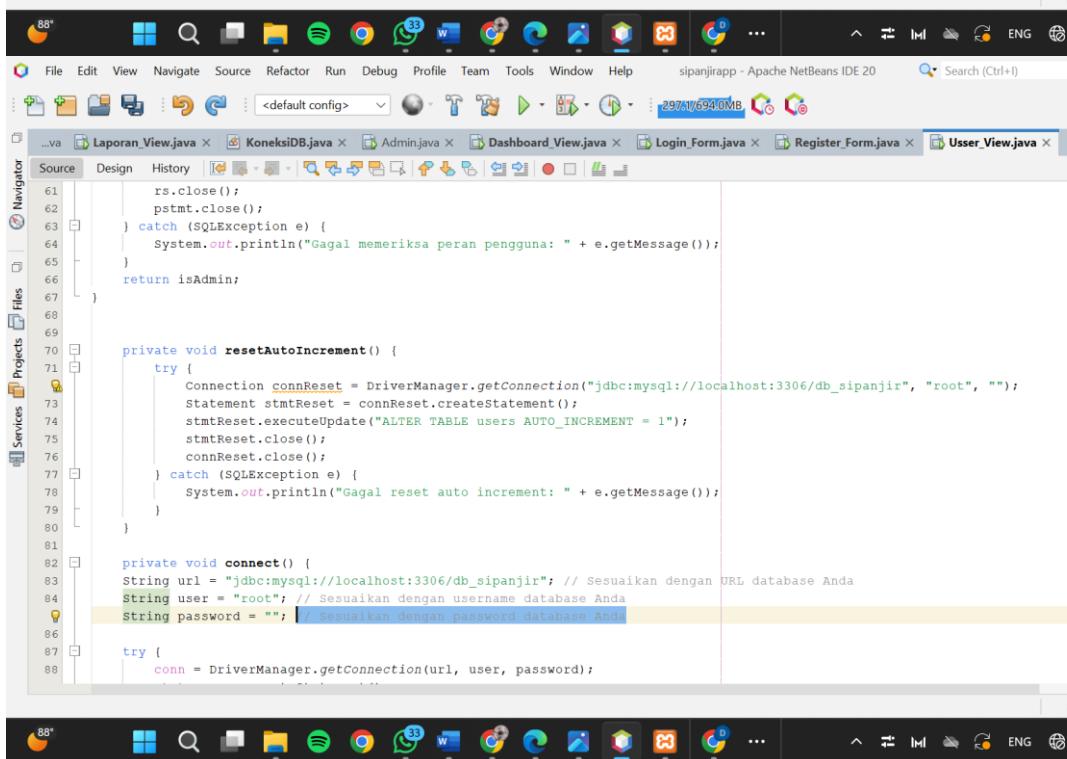


- **Usser View**





```
public Usser_View(String username) {
    this.currentUsername = username;
    initComponents();
    connect();
    if (!isAdmin()) {
        JOptionPane.showMessageDialog(this, "Akses Ditolak: Anda tidak memiliki izin untuk mengakses tampilan ini.");
        dispose();
    } else {
        showData();
    }
    Dimension screenSize = Toolkit.getDefaultToolkit().getScreenSize();
    int centerX = (int) screenSize.getWidth() / 2;
    int centerY = (int) screenSize.getHeight() / 2;
    setLocation(centerX - getWidth() / 2, centerY - getHeight() / 2);
    setVisible(true);
}
private boolean isAdmin() {
    boolean isAdmin = false;
    try {
        String sql = "SELECT role FROM users WHERE username = ?";
        PreparedStatement pstmt = conn.prepareStatement(sql);
        pstmt.setString(1, currentUsername);
        ResultSet rs = pstmt.executeQuery();
        if (rs.next()) {
            String role = rs.getString("role");
            isAdmin = "admin".equalsIgnoreCase(role);
        }
        rs.close();
        pstmt.close();
    } catch (SQLException e) {
        System.out.println("Gagal memeriksa peran pengguna: " + e.getMessage());
    }
    return isAdmin;
}
private void resetAutoIncrement() {
    try {
        Connection connReset = DriverManager.getConnection("jdbc:mysql://localhost:3306/db_sipanjir", "root", "");
        Statement stmtReset = connReset.createStatement();
        stmtReset.executeUpdate("ALTER TABLE users AUTO_INCREMENT = 1");
        stmtReset.close();
        connReset.close();
    } catch (SQLException e) {
        System.out.println("Gagal reset auto increment: " + e.getMessage());
    }
}
private void connect() {
    String url = "jdbc:mysql://localhost:3306/db_sipanjir"; // Sesuaikan dengan URL database Anda
    String user = "root"; // Sesuaikan dengan username database Anda
    String password = ""; // Sesuaikan dengan password database Anda
}
try {
    conn = DriverManager.getConnection(url, user, password);
}
```



```
88°
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
sipanjirapp - Apache NetBeans IDE 20
Search (Ctrl+I)
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```

Apache NetBeans IDE 20

Laporan\_View.java KoneksiDB.java Admin.java Dashboard\_View.java Login\_Form.java Register\_Form.java Usser\_View.java

```
try {
    conn = DriverManager.getConnection(url, user, password);
    stmt = conn.createStatement();
} catch (SQLException e) {
    System.out.println("Koneksi ke database gagal: " + e.getMessage());
}

private void showSelectedData(int selectedRow) {
    if (selectedRow != -1) {
        int id = (int)tbl_database.getValueAt(selectedRow, 0);
        String nama = (String)tbl_database.getValueAt(selectedRow, 1);
        String noHp = (String)tbl_database.getValueAt(selectedRow, 2);
        String username = (String)tbl_database.getValueAt(selectedRow, 3);
        String password = (String)tbl_database.getValueAt(selectedRow, 4);
        String role = (String)tbl_database.getValueAt(selectedRow, 5);
    }
}

private void showData() {
    DefaultTableModel model = new DefaultTableModel();
    model.addColumn("No");
    model.addColumn("Nama");
    model.addColumn("No Hp");
    model.addColumn("Username");
    model.addColumn("Password");
    model.addColumn("Role");
}
```

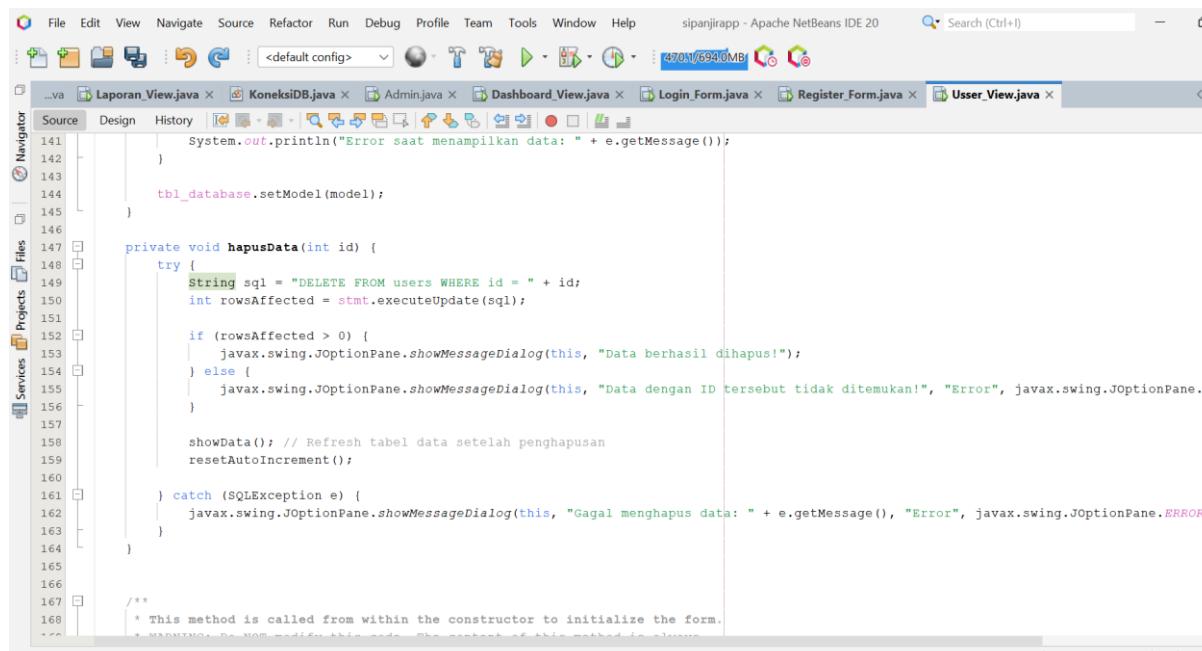
Apache NetBeans IDE 20

Laporan\_View.java KoneksiDB.java Admin.java Dashboard\_View.java Login\_Form.java Register\_Form.java Usser\_View.java

```
private void showData() {
    DefaultTableModel model = new DefaultTableModel();
    model.addColumn("No");
    model.addColumn("Nama");
    model.addColumn("No Hp");
    model.addColumn("Username");
    model.addColumn("Password");
    model.addColumn("Role");

    try {
        String sql = "SELECT * FROM users"; // Ganti dengan nama tabel Anda
        ResultSet rs = stmt.executeQuery(sql);

        while (rs.next()) {
            Object[] row = {
                rs.getInt("id"),
                rs.getString("nama"),
                rs.getString("no_hp"),
                rs.getString("username"),
                rs.getString("password"),
                rs.getString("role")
            };
            model.addRow(row);
        }
        resetAutoIncrement();
    } catch (SQLException e) {
}
```



The screenshot shows the Apache NetBeans IDE interface with the file `Usser_View.java` open in the editor. The code implements a method `hapusData` which performs a delete operation on a database table. It handles successful deletion with a message dialog and failure with another message dialog.

```
        System.out.println("Error saat menampilkan data: " + e.getMessage());
    }

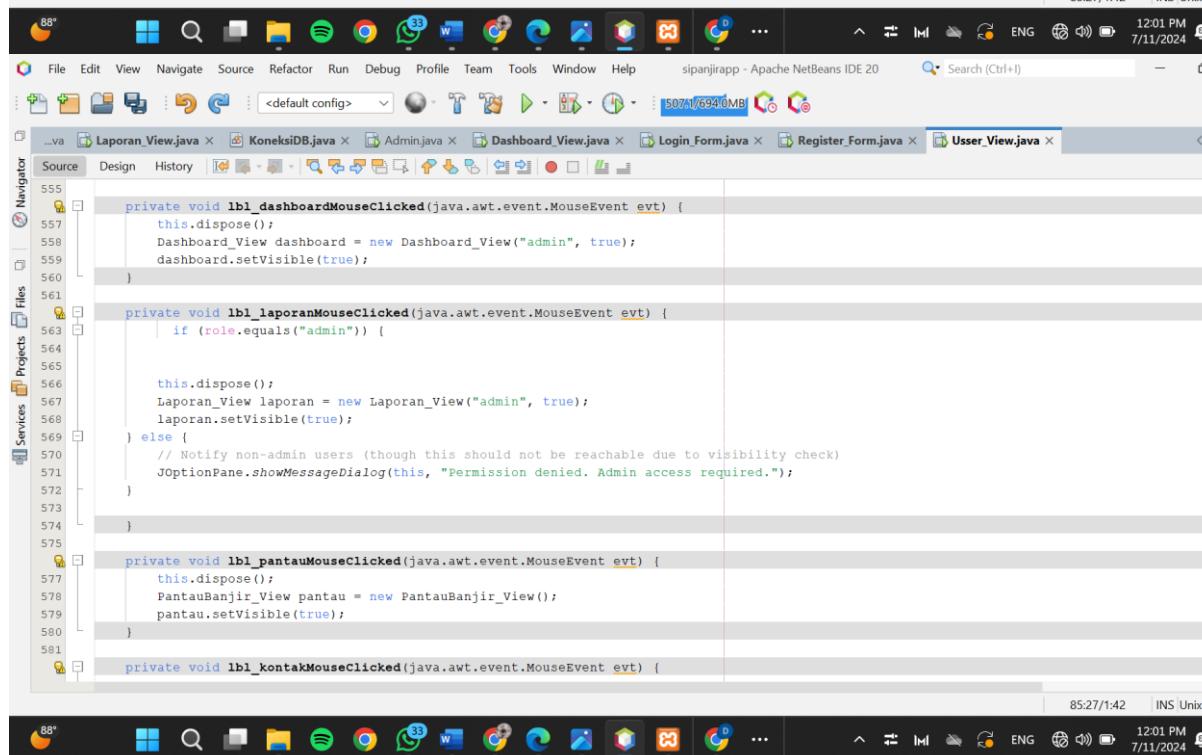
    tbl_database.setModel(model);
}

private void hapusData(int id) {
    try {
        String sql = "DELETE FROM users WHERE id = " + id;
        int rowsAffected = stmt.executeUpdate(sql);

        if (rowsAffected > 0) {
            javax.swing.JOptionPane.showMessageDialog(this, "Data berhasil dihapus!");
        } else {
            javax.swing.JOptionPane.showMessageDialog(this, "Data dengan ID tersebut tidak ditemukan!", "Error", javax.swing.JOptionPane.ERROR_MESSAGE);
        }
    } catch (SQLException e) {
        javax.swing.JOptionPane.showMessageDialog(this, "Gagal menghapus data: " + e.getMessage(), "Error", javax.swing.JOptionPane.ERROR_MESSAGE);
    }
}

/*
 * This method is called from within the constructor to initialize the form.
 */

```



The second screenshot shows the same Apache NetBeans IDE interface with the file `Usser_View.java` open. This part of the code handles mouse click events for several buttons: `lbl_dashboardMouseClicked`, `lbl_laporanMouseClicked`, `lbl_pantauMouseClicked`, and `lbl_kontakMouseClicked`. It checks the user role ('admin' or 'non-admin') and either opens a new view or displays a permission denied message.

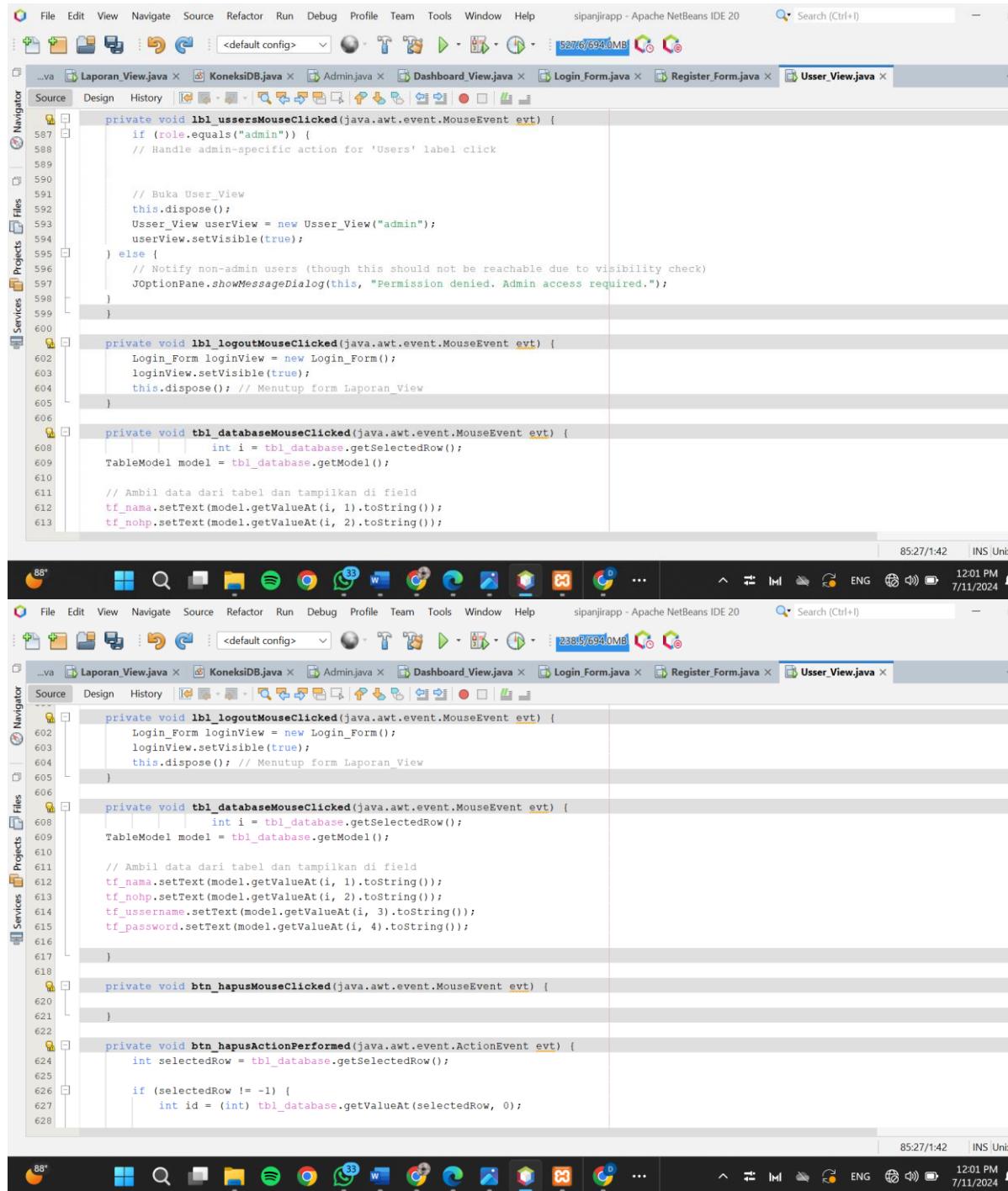
```
private void lbl_dashboardMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    Dashboard_View dashboard = new Dashboard_View("admin", true);
    dashboard.setVisible(true);
}

private void lbl_laporanMouseClicked(java.awt.event.MouseEvent evt) {
    if (role.equals("admin")) {

        this.dispose();
        Laporan_View laporan = new Laporan_View("admin", true);
        laporan.setVisible(true);
    } else {
        // Notify non-admin users (though this should not be reachable due to visibility check)
        JOptionPane.showMessageDialog(this, "Permission denied. Admin access required.");
    }
}

private void lbl_pantauMouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
    PantauBanjir_View pantau = new PantauBanjir_View();
    pantau.setVisible(true);
}

private void lbl_kontakMouseClicked(java.awt.event.MouseEvent evt) {
```



The screenshot shows the Apache NetBeans IDE interface with the following details:

- Toolbar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Status Bar:** sipanjiapp - Apache NetBeans IDE 20, Search (Ctrl+F), 527/6/694.0MB, three circular icons.
- Project Tab:** Laporan\_View.java, KoneksiDB.java, Admin.java, Dashboard\_View.java, Login\_Form.java, Register\_Form.java, Usser\_View.java.
- Navigator Tab:** Source, Design, History.
- Code Editor:** Displays Java code for the Usser\_View.java class. The code handles mouse click events for various UI components like labels and buttons, interacting with a database and user interface fields.
- System Tray:** Shows system icons including battery level (88%), network, volume, and date/time (7/11/2024, 12:01 PM).

```
private void lbl_usersMouseClicked(java.awt.event.MouseEvent evt) {
    if (role.equals("admin")) {
        // Handle admin-specific action for 'Users' label click
        // Buka User_View
        this.dispose();
        Usser_View userView = new Usser_View("admin");
        userView.setVisible(true);
    } else {
        // Notify non-admin users (though this should not be reachable due to visibility check)
        JOptionPane.showMessageDialog(this, "Permission denied. Admin access required.");
    }
}

private void lbl_logoutMouseClicked(java.awt.event.MouseEvent evt) {
    Login_Form loginView = new Login_Form();
    loginView.setVisible(true);
    this.dispose(); // Menutup form Laporan_View
}

private void tbl_databaseMouseClicked(java.awt.event.MouseEvent evt) {
    int i = tbl_database.getSelectedRow();
    TableModel model = tbl_database.getModel();
    // Ambil data dari tabel dan tampilkan di field
    tf_nama.setText(model.getValueAt(i, 1).toString());
    tf_nohp.setText(model.getValueAt(i, 2).toString());
}
```

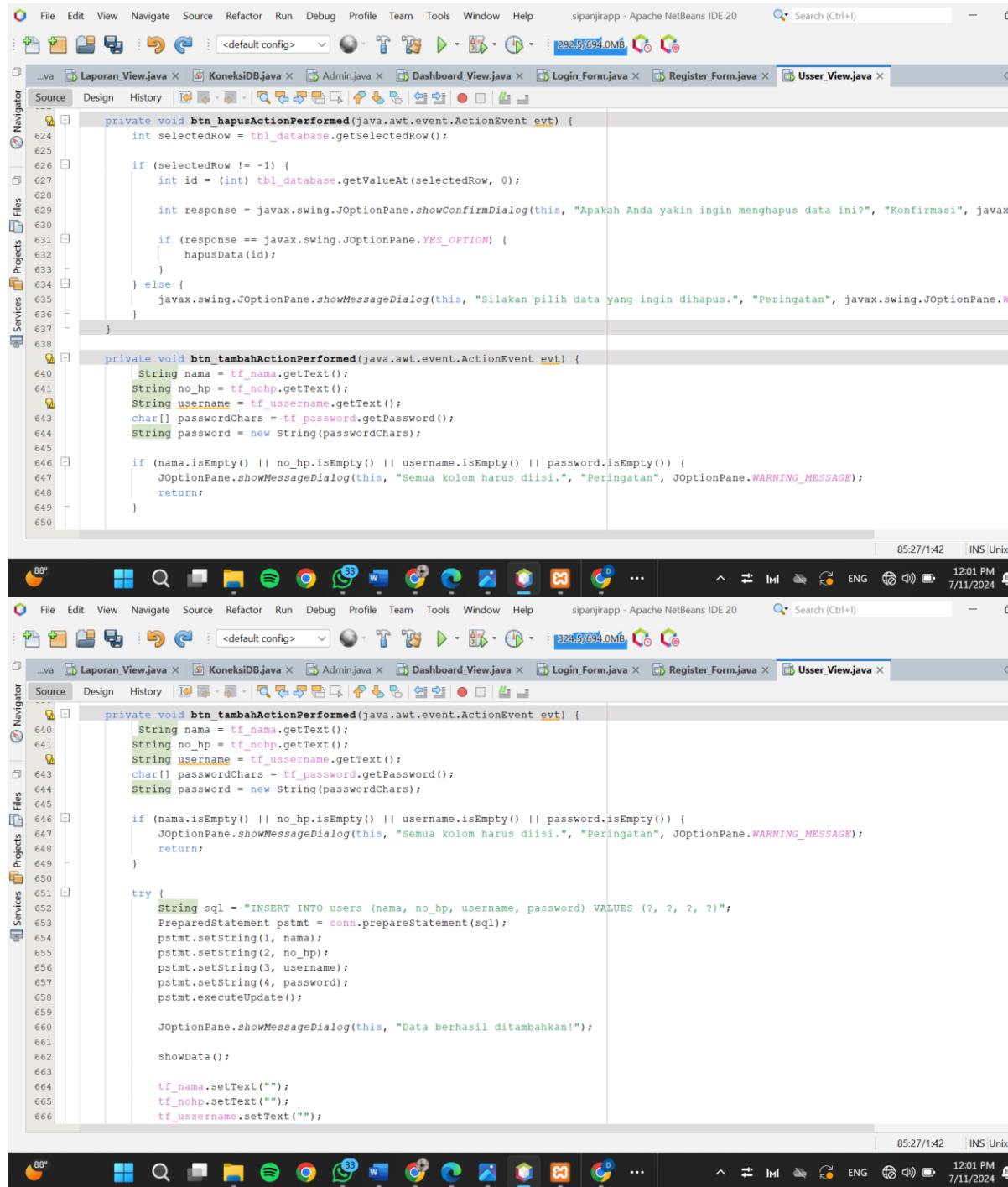
  

```
private void lbl_logoutMouseClicked(java.awt.event.MouseEvent evt) {
    Login_Form loginView = new Login_Form();
    loginView.setVisible(true);
    this.dispose(); // Menutup form Laporan_View
}

private void tbl_databaseMouseClicked(java.awt.event.MouseEvent evt) {
    int i = tbl_database.getSelectedRow();
    TableModel model = tbl_database.getModel();
    // Ambil data dari tabel dan tampilkan di field
    tf_nama.setText(model.getValueAt(i, 1).toString());
    tf_nohp.setText(model.getValueAt(i, 2).toString());
    tf_username.setText(model.getValueAt(i, 3).toString());
    tf_password.setText(model.getValueAt(i, 4).toString());
}

private void btn_hapusMouseClicked(java.awt.event.MouseEvent evt) {
}

private void btn_hapusActionPerformed(java.awt.event.ActionEvent evt) {
    int selectedRow = tbl_database.getSelectedRow();
    if (selectedRow != -1) {
        int id = (int)tbl_database.getValueAt(selectedRow, 0);
    }
}
```



The screenshot shows two instances of the Apache NetBeans IDE interface. Both instances have the same window title, "sipanjiapp - Apache NetBeans IDE 20". The top instance displays code for the `Usser_View.java` file, specifically the `btn_hapusActionPerformed` and `btn_tambahActionPerformed` methods. The bottom instance also displays the same code for the `Usser_View.java` file, specifically the `btn_tambahactionPerformed` method. The code involves validating input fields and performing database insertions using PreparedStatement.

```

private void btn_hapusActionPerformed(java.awt.event.ActionEvent evt) {
    int selectedRow = tbl_database.getSelectedRow();

    if (selectedRow != -1) {
        int id = (int)tbl_database.getValueAt(selectedRow, 0);

        int response = javax.swing.JOptionPane.showConfirmDialog(this, "Apakah Anda yakin ingin menghapus data ini?", "Konfirmasi", javax.swing.JOptionPane.YES_NO_OPTION);
        if (response == javax.swing.JOptionPane.YES_OPTION) {
            hapusData(id);
        } else {
            javax.swing.JOptionPane.showMessageDialog(this, "Silakan pilih data yang ingin dihapus.", "Peringatan", javax.swing.JOptionPane.WARNING_MESSAGE);
        }
    }
}

private void btn_tambahActionPerformed(java.awt.event.ActionEvent evt) {
    String nama = tf_nama.getText();
    String no_hp = tf_nohp.getText();
    String username = tf_ussername.getText();
    char[] passwordChars = tf_password.getPassword();
    String password = new String(passwordChars);

    if (nama.isEmpty() || no_hp.isEmpty() || username.isEmpty() || password.isEmpty()) {
        JOptionPane.showMessageDialog(this, "Semua kolom harus diisi.", "Peringatan", JOptionPane.WARNING_MESSAGE);
        return;
    }

    try {
        String sql = "INSERT INTO users (nama, no_hp, username, password) VALUES (?, ?, ?, ?)";
        PreparedStatement pstmt = conn.prepareStatement(sql);
        pstmt.setString(1, nama);
        pstmt.setString(2, no_hp);
        pstmt.setString(3, username);
        pstmt.setString(4, password);
        pstmt.executeUpdate();

        JOptionPane.showMessageDialog(this, "Data berhasil ditambahkan!");
        showData();

        tf_nama.setText("");
        tf_nohp.setText("");
        tf_ussername.setText("");
    }
}

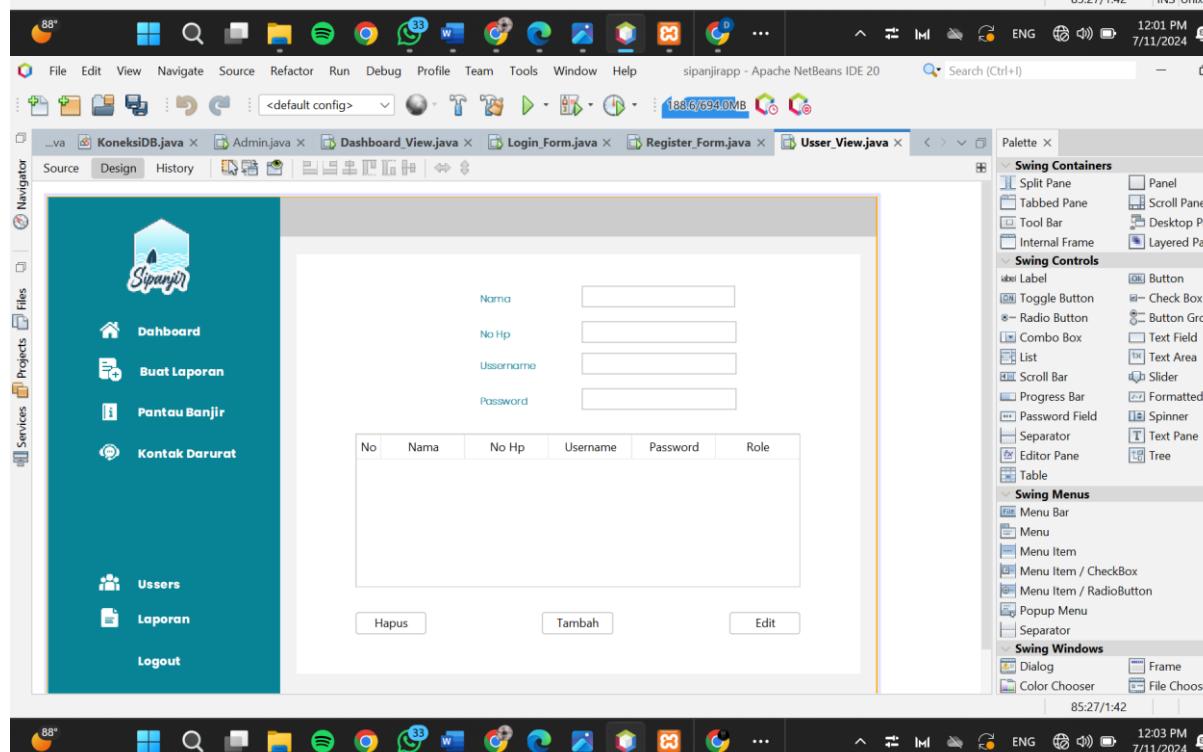
```

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help sipanjiapp - Apache NetBeans IDE 20 Search (Ctrl+F)
... <default config> ... 3960/694.0MB Q C
Navigator Source Design History ... Laporan_View.java X KoneksiDB.java X Admin.java X Dashboard_View.java X Login_Form.java X Register_Form.java X Usser_View.java X
664     tf_nama.setText("");
665     tf_nohp.setText("");
666     tf_ussername.setText("");
667     tf_password.setText("");
668
669 } catch (SQLException e) {
670     JOptionPane.showMessageDialog(this, "Gagal menambah data: " + e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE);
671 }
672
673 private void btn_editActionPerformed(java.awt.event.ActionEvent evt) {
674     int selectedRow = tbl_database.getSelectedRow();
675
676     if (selectedRow == -1) {
677         JOptionPane.showMessageDialog(this, "Silakan pilih data yang ingin diedit.", "Peringatan", JOptionPane.WARNING_MESSAGE);
678         return;
679     }
680
681     int id = (int)tbl_database.getValueAt(selectedRow, 0);
682
683     String nama = tf_nama.getText();
684     String noHp = tf_nohp.getText();
685     String username = tf_ussername.getText();
686     char[] passwordChars = tf_password.getPassword();
687     String password = new String(passwordChars);
688
689     if (nama.isEmpty() || noHp.isEmpty() || username.isEmpty() || password.isEmpty()) {
690         JOptionPane.showMessageDialog(this, "Semua kolom harus diisi.", "Peringatan", JOptionPane.WARNING_MESSAGE);
691     }
692
693     String password = new String(passwordChars);
694
695     if (nama.isEmpty() || noHp.isEmpty() || username.isEmpty() || password.isEmpty()) {
696         JOptionPane.showMessageDialog(this, "Semua kolom harus diisi.", "Peringatan", JOptionPane.WARNING_MESSAGE);
697         return;
698     }
699
700     try {
701         String sql = "UPDATE users SET nama = ?, no_hp = ?, username = ?, password = ? WHERE id = ?";
702         PreparedStatement pstmt = conn.prepareStatement(sql);
703         pstmt.setString(1, nama);
704         pstmt.setString(2, noHp);
705         pstmt.setString(3, username);
706         pstmt.setString(4, password);
707         pstmt.setInt(5, id);
708
709         int rowsAffected = pstmt.executeUpdate();
710
711         if (rowsAffected > 0) {
712             JOptionPane.showMessageDialog(this, "Data berhasil diupdate!");
713         } else {
714             JOptionPane.showMessageDialog(this, "Gagal mengupdate data.", "Error", JOptionPane.ERROR_MESSAGE);
715         }
716
717         showData();
718         showSelectedData(selectedRow);
719
720         tf_nama.setText("");
721         tf_nohp.setText("");
722     }
723 }
```

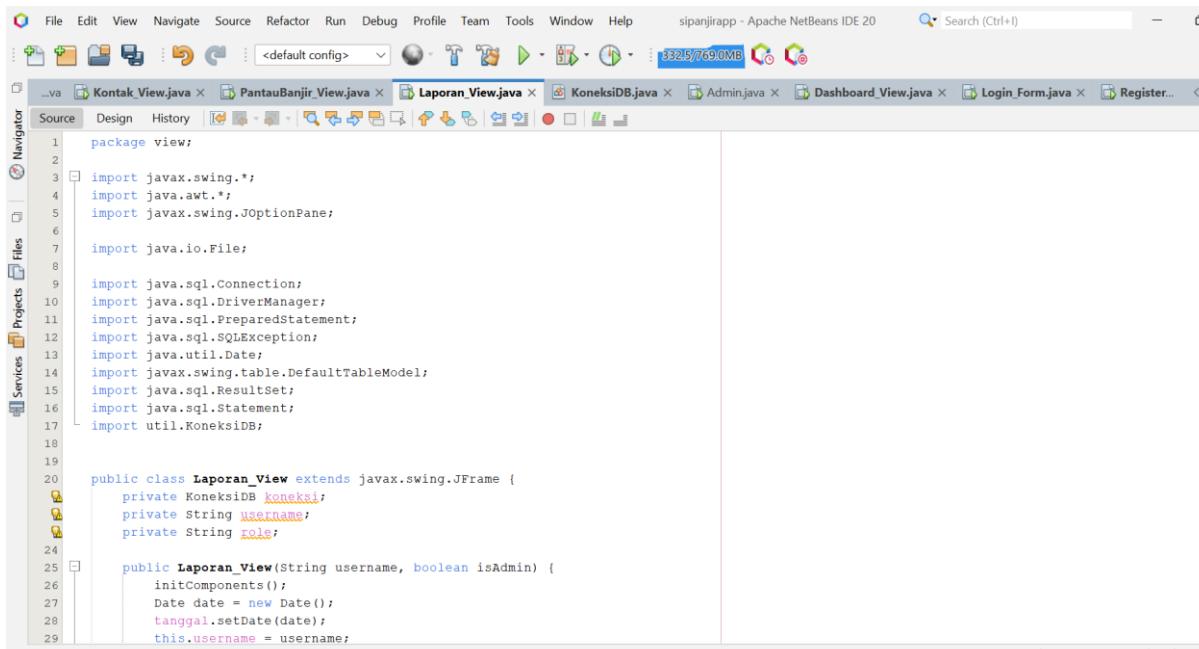
The screenshot shows the Apache NetBeans IDE interface with the following details:

- Toolbar:** File, Edit, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Status Bar:** sipanjiapp - Apache NetBeans IDE 20, 1529.5/694.0MB, several icons including a refresh and a search icon.
- Project Explorer (Projects tab):** Shows a single project named "sipanjiapp".
- Navigator:** Shows the current file is "Usser\_View.java".
- Files:** Shows files like Laporan\_View.java, KoneksiDB.java, Admin.java, Dashboard\_View.java, Login\_Form.java, Register\_Form.java, and Usser\_View.java.
- Source Editor:** The main window displays Java code for a user login application. The code includes methods for handling button clicks and updating database records. It uses JDBC and Swing components like JTextField and JOptionPane.

```
714
715     tf_nama.setText("");
716     tf_nohp.setText("");
717     tf_username.setText("");
718     tf_password.setText("");
719
720     } catch (SQLException e) {
721         JOptionPane.showMessageDialog(this, "Gagal mengupdate data: " + e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE);
722     }
723
724 }
725
726 private void jLabel2MouseClicked(java.awt.event.MouseEvent evt) {
727     this.dispose();
728     Add_Laporan_View addlaporan = new Add_Laporan_View();
729     addlaporan.setVisible(true);
730 }
731
732 /**
733 * @param args the command line arguments
734 */
735 public static void main(String args[]) {
736
737     /* Create and display the form */
738     java.awt.EventQueue.invokeLater(new Runnable() {
739         public void run() {
740             new Usser_View("admin_username").setVisible(true); // Ganti "admin_username" dengan username yang valid
741         }
742     });
743 }
```



- Laporan View



Apache NetBeans IDE 20

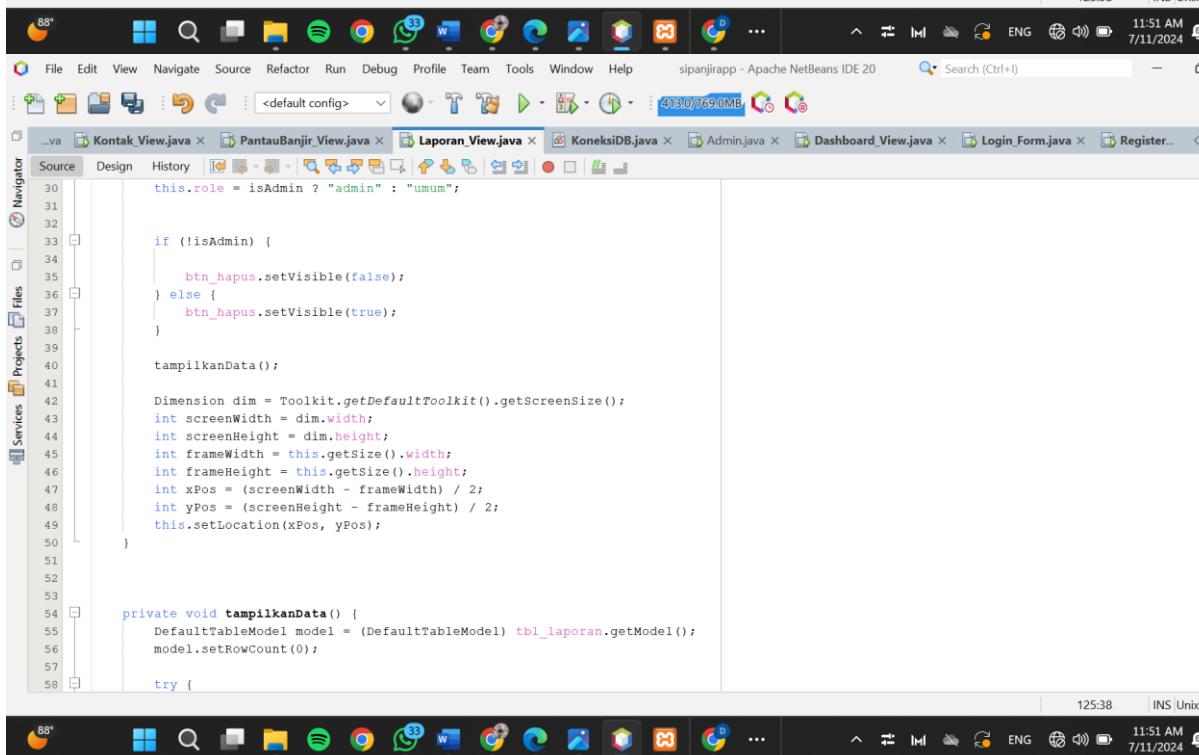
Laporan\_View.java

```
package view;

import javax.swing.*;
import java.awt.*;
import javax.swing.JOptionPane;
import java.io.File;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import java.util.Date;
import javax.swing.table.DefaultTableModel;
import java.sql.ResultSet;
import java.sql.Statement;
import util.KoneksiDB;
```

public class Laporan\_View extends javax.swing.JFrame {
 private KoneksiDB koneksi;
 private String username;
 private String role;

public Laporan\_View(String username, boolean isAdmin) {
 initComponents();
 Date date = new Date();
 tanggal.setDate(date);
 this.username = username;



```
    this.role = isAdmin ? "admin" : "umum";

    if (!isAdmin) {
        btn_hapus.setVisible(false);
    } else {
        btn_hapus.setVisible(true);
    }

    tampilkanData();

    Dimension dim = Toolkit.getDefaultToolkit().getScreenSize();
    int screenWidth = dim.width;
    int screenHeight = dim.height;
    int frameWidth = this.getSize().width;
    int frameHeight = this.getSize().height;
    int xPos = (screenWidth - frameWidth) / 2;
    int yPos = (screenHeight - frameHeight) / 2;
    this.setLocation(xPos, yPos);
}

private void tampilkanData() {
    DefaultTableModel model = (DefaultTableModel) tbl_laporan.getModel();
    model.setRowCount(0);

    try {
```

The screenshot shows two instances of the Apache NetBeans IDE interface. Both instances have the same window title, "sipanjirapp - Apache NetBeans IDE 20". The top instance displays the following Java code:

```
private void tampilkanData() {
    DefaultTableModel model = (DefaultTableModel) tbl_laporan.getModel();
    model.setRowCount(0);

    try {
        Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/db_sipanjir", "root", "");
        String sql = "SELECT no, nama, tanggal, lokasi, ketinggian, jml_korban, keterangan FROM laporan ORDER BY no";
        PreparedStatement stmt = conn.prepareStatement(sql);
        ResultSet rs = stmt.executeQuery();

        while (rs.next()) {
            Object[] row = {
                rs.getInt("no"),
                rs.getString("nama"),
                rs.getDate("tanggal"),
                rs.getString("lokasi"),
                rs.getInt("ketinggian"),
                rs.getString("jml_korban"),
                rs.getString("keterangan")
            };
            model.addRow(row);
        }

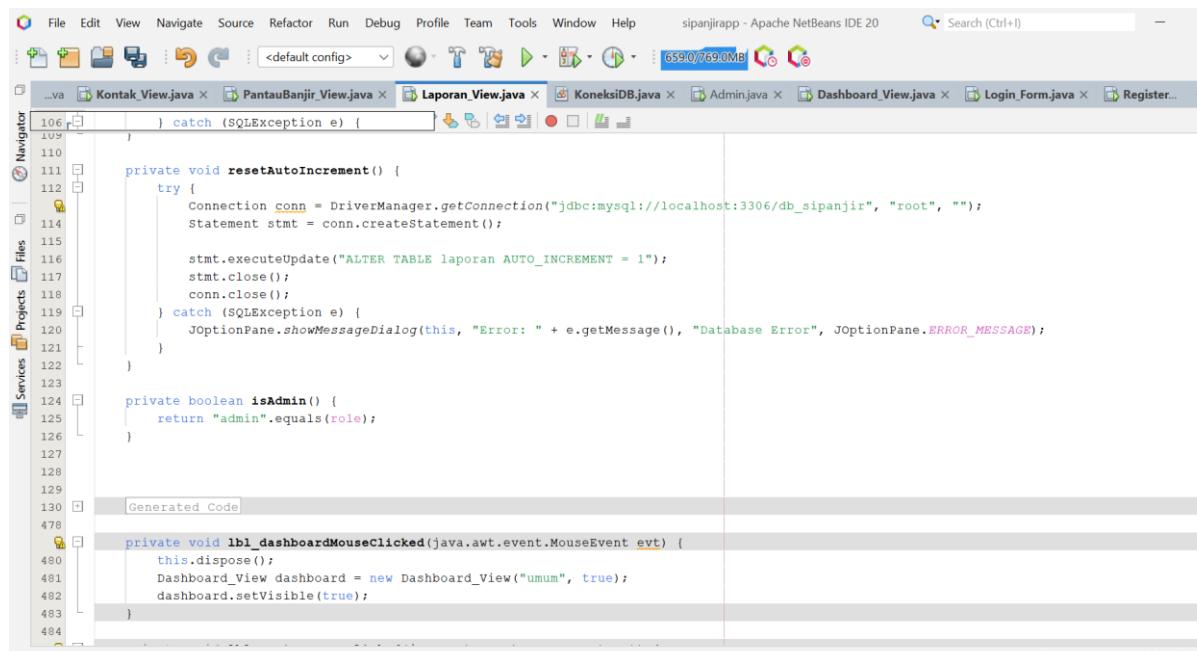
        rs.close();
        stmt.close();
        conn.close();
        resetAutoIncrement();
    } catch (SQLException e) {
        JOptionPane.showMessageDialog(this, "Gagal mengambil data dari database: " + e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE);
    }
}

private void hapusData(int no) {
    if (!isAdmin()) {
        JOptionPane.showMessageDialog(this, "Anda tidak memiliki izin untuk menghapus data.", "Akses Ditolak", JOptionPane.ERROR_MESSAGE);
        return;
    }

    try {
        Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/db_sipanjir", "root", "");
        String sql = "DELETE FROM laporan WHERE no = ?";
        PreparedStatement stmt = conn.prepareStatement(sql);
        stmt.setInt(1, no);
        stmt.executeUpdate();
        stmt.close();
        conn.close();

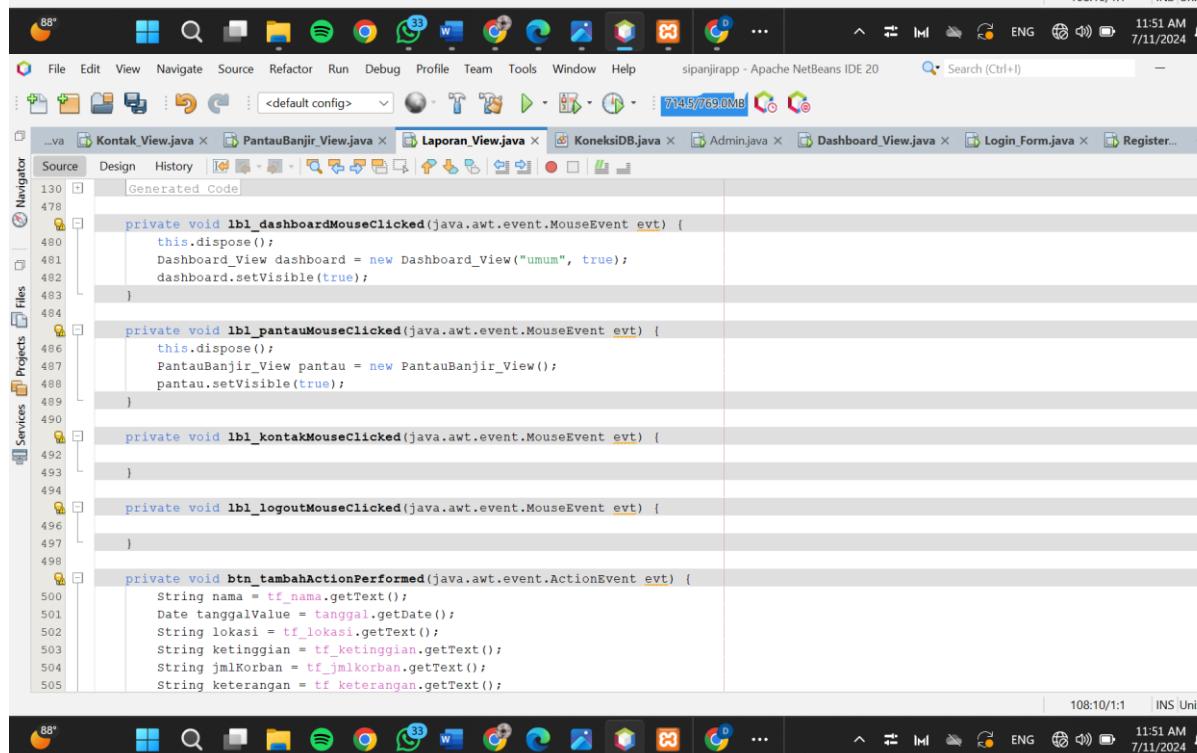
        JOptionPane.showMessageDialog(this, "Data berhasil dihapus!");
        tampilkanData();
        resetAutoIncrement();
    } catch (SQLException e) {
        JOptionPane.showMessageDialog(this, "Gagal menghapus data: " + e.getMessage(), "Error", JOptionPane.ERROR_MESSAGE);
    }
}
```

The bottom instance of the IDE shows the same code, indicating it is the same application running in parallel. The system tray at the bottom of the screen shows various icons for system status and connectivity.



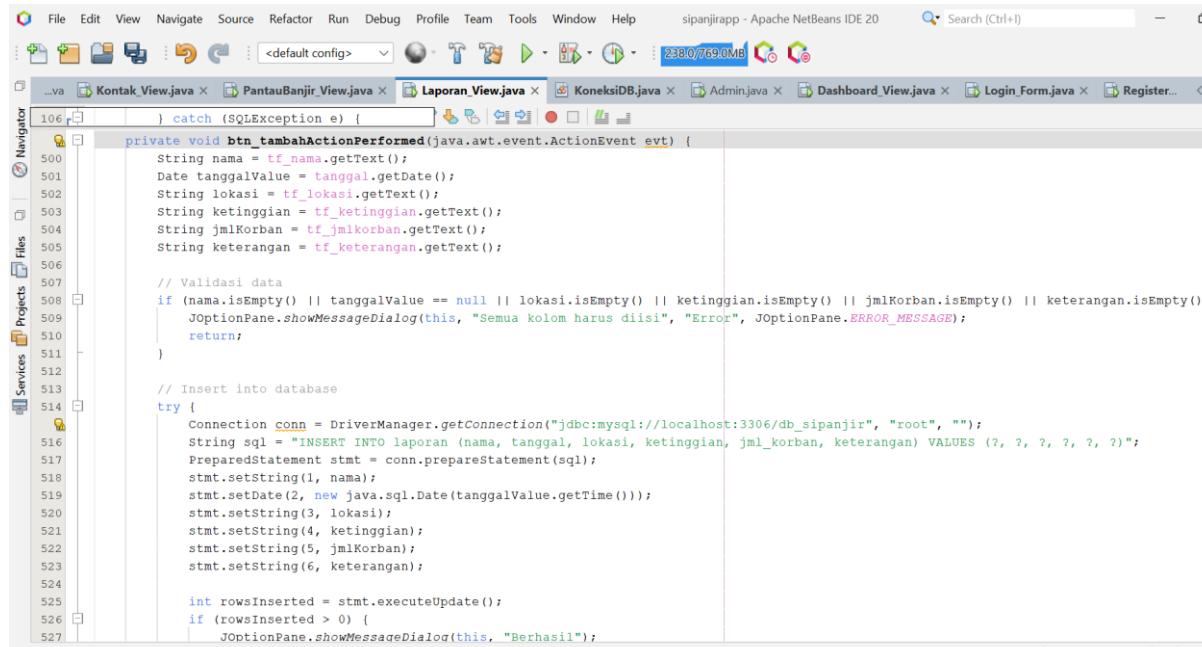
The screenshot shows the Apache NetBeans IDE interface with the following details:

- Toolbar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Status Bar:** sipanjirapp - Apache NetBeans IDE 20, Search (Ctrl+F), 6590/769.0MB.
- Project Explorer:** Shows files like Kontak\_View.java, PantauBanjir\_View.java, Laporan\_View.java, KoneksiDB.java, Admin.java, Dashboard\_View.java, Login\_Form.java, and Register... .
- Code Editor:** Displays Java code for Laporan\_View.java. The code includes methods for handling database exceptions, checking if the user is an admin, and managing window visibility. A specific section shows event handling for mouse clicks on dashboard, pantau, kontak, and logout buttons.
- Bottom Status Bar:** 108:10:1:1, INS Unix.



The second screenshot shows the same Apache NetBeans IDE interface with the following details:

- Toolbar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Status Bar:** sipanjirapp - Apache NetBeans IDE 20, Search (Ctrl+F), 7145/769.0MB.
- Project Explorer:** Shows files like Kontak\_View.java, PantauBanjir\_View.java, Laporan\_View.java, KoneksiDB.java, Admin.java, Dashboard\_View.java, Login\_Form.java, and Register... .
- Code Editor:** Displays Java code for Laporan\_View.java, focusing on the event handling for dashboard, pantau, kontak, and logout buttons.
- Bottom Status Bar:** 108:10:1:1, INS Unix.



```
private void btn_tambahActionPerformed(java.awt.event.ActionEvent evt) {
    String nama = tf_nama.getText();
    Date tanggalValue = tanggal.getDate();
    String lokasi = tf_lokasi.getText();
    String ketinggian = tf_ketinggian.getText();
    String jmlKorban = tf_jmlkorban.getText();
    String keterangan = tf_keterangan.getText();

    // Validasi data
    if (nama.isEmpty() || tanggalValue == null || lokasi.isEmpty() || ketinggian.isEmpty() || jmlKorban.isEmpty() || keterangan.isEmpty()) {
        JOptionPane.showMessageDialog(this, "Semua kolom harus diisi", "Error", JOptionPane.ERROR_MESSAGE);
        return;
    }

    // Insert into database
    try {
        Connection conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/db_sipanfir", "root", "");
        String sql = "INSERT INTO laporan (nama, tanggal, lokasi, ketinggian, jml_korban, keterangan) VALUES (?, ?, ?, ?, ?, ?)";
        PreparedStatement stmt = conn.prepareStatement(sql);
        stmt.setString(1, nama);
        stmt.setDate(2, new java.sql.Date(tanggalValue.getTime()));
        stmt.setString(3, lokasi);
        stmt.setString(4, ketinggian);
        stmt.setString(5, jmlKorban);
        stmt.setString(6, keterangan);

        int rowsInserted = stmt.executeUpdate();
        if (rowsInserted > 0) {
            JOptionPane.showMessageDialog(this, "Berhasil");
        }
    } catch (SQLException e) {
        JOptionPane.showMessageDialog(this, "Error: " + e.getMessage(), "Database Error", JOptionPane.ERROR_MESSAGE);
    }
}

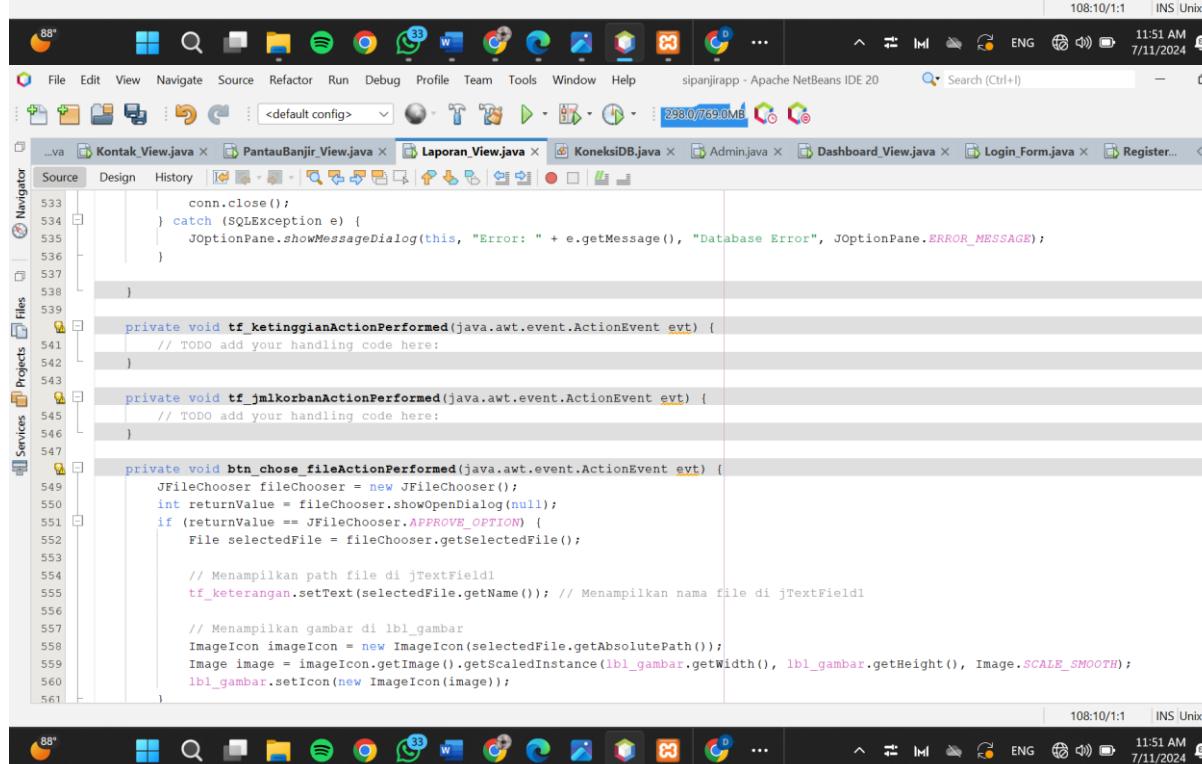
private void tf_ketinggianActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void tf_jmlkorbanActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

private void btn_chose_fileActionPerformed(java.awt.event.ActionEvent evt) {
    JFileChooser fileChooser = new JFileChooser();
    int returnValue = fileChooser.showOpenDialog(null);
    if (returnValue == JFileChooser.APPROVE_OPTION) {
        File selectedFile = fileChooser.getSelectedFile();

        // Menampilkan path file di jTextField1
        tf_keterangan.setText(selectedFile.getName()); // Menampilkan nama file di jTextField1

        // Menampilkan gambar di lbl_gambar
        ImageIcon imageIcon = new ImageIcon(selectedFile.getAbsolutePath());
        Image image = imageIcon.getImage().getScaledInstance(lbl_gambar.getWidth(), lbl_gambar.getHeight(), Image.SCALE_SMOOTH);
        lbl_gambar.setIcon(new ImageIcon(image));
    }
}
```



The screenshot shows the Apache NetBeans IDE interface with the following details:

- Toolbar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Status Bar:** sianjirapp - Apache NetBeans IDE 20, 337/0/7690MB.
- Search Bar:** Search (Ctrl+I).
- Project Explorer (Projects tab):** Shows the project structure with files like Kontak\_View.java, PantauBanjir\_View.java, Laporan\_View.java, KoneksiDB.java, Admin.java, Dashboard\_View.java, Login\_Form.java, and Register...
- Navigator Tab:** Shows the current file navigation path.
- Code Editor:** Displays Java code for a class named Laporan\_View.java. The code includes methods for handling file selection (btn\_chose\_fileActionPerformed), displaying selected file information (tanggalMouseClicked), and deleting selected rows (btn\_hapusActionPerformed). It uses JFileChooser, ImageIcon, and JOptionPane.

```
private void btn_chose_fileActionPerformed(java.awt.event.ActionEvent evt) {
    JFileChooser fileChooser = new JFileChooser();
    int returnValue = fileChooser.showOpenDialog(null);
    if (returnValue == JFileChooser.APPROVE_OPTION) {
        File selectedFile = fileChooser.getSelectedFile();

        // Menampilkan path file di jTextField1
        tf_keterangan.setText(selectedFile.getName()); // Menampilkan nama file di jTextField1

        // Menampilkan gambar di lbl_gambar
        ImageIcon imageIcon = new ImageIcon(selectedFile.getAbsolutePath());
        Image image = imageIcon.getImage().getScaledInstance(lbl_gambar.getWidth(), lbl_gambar.getHeight(), Image.SCALE_SMOOTH);
        lbl_gambar.setIcon(new ImageIcon(image));
    }
}

private void tanggalMouseClicked(java.awt.event.MouseEvent evt) {
    // TODO add your handling code here:
}

private void btn_hapusActionPerformed(java.awt.event.ActionEvent evt) {
    if (isAdmin()) {
        int selectedRow = tbl_laporan.getSelectedRow();
        if (selectedRow >= 0) {
            int no = (int)tbl_laporan.getValueAt(selectedRow, 0); // Mengambil nilai no dari baris yang dipilih
            hapusData(no); // Menghapus data berdasarkan no
        } else {
            JOptionPane.showMessageDialog(this, "Pilih baris yang ingin dihapus terlebih dahulu.", "Error", JOptionPane.ERROR_MESSAGE);
        }
    }
}
```

The screenshot shows the Apache NetBeans IDE 20 interface with the following details:

- Toolbar:** Includes icons for Windows Start, Search, File Explorer, Spotify, Google Chrome, Microsoft Edge, Mozilla Firefox, Java, and Help.
- Status Bar:** Displays "88\*" at the top left, "3750/7690MB" at the top right, and "108:10/1:1" at the bottom right.
- Menu Bar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Search Bar:** "sipanirapp - Apache NetBeans IDE 20" and "Search (Ctrl+F)".
- Navigator:** Shows the current file is "Laporan\_View.java".
- Projects:** Shows a single project named "Kontak\_Visit".
- Services:** Shows a single service named "Dashboard\_Visit".
- Code Editor:** The main window displays Java code for "Laporan\_View.java". The code handles button click events for deleting data and managing user roles. It uses JDBC to interact with a database and JOptionPane for user dialogs.

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File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help sipanjiapp - Apache NetBeans IDE 20 Search (Ctrl+I) —

Kontak\_View.java PantauBanjir\_View.java Laporan\_View.java KoneksiDB.java Admin.java Dashboard\_View.java Login\_Form.java Register...

Source Design History |

```

599 }
600 }
601 }
602 private void lbl_usserMouseClicked(java.awt.event.MouseEvent evt) {
603     if (role.equals("admin")) {
604         // Handle admin-specific action for 'Users' label click
605         // Buka User_View
606         this.dispose();
607         Usser_View userView = new Usser_View("admin");
608         userView.setVisible(true);
609     } else {
610         // Notify non-admin users (though this should not be reachable due to visibility check)
611         JOptionPane.showMessageDialog(this, "Permission denied. Admin access required.");
612     }
613 }
614 /**
615 * @param args the command line arguments
616 */
617 public static void main(String args[]) {
618     /* Set the Nimbus look and feel */
619     /* Look and feel setting code (optional) */
620
621     /* Create and display the form */
622     java.awt.EventQueue.invokeLater(new Runnable() {
623         public void run() {
624             Laporan_View laporan = new Laporan_View("admin", true);
625             laporan.setVisible(true);
626         }
627     });
628 }
629 }
630 }
631 }
632 }
633 */
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108:10/1:1 INS Unix

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help sipanjiapp - Apache NetBeans IDE 20 Search (Ctrl+I) —

Kontak\_View.java PantauBanjir\_View.java Laporan\_View.java KoneksiDB.java Admin.java Dashboard\_View.java ...

Source Design History |

Buat Laporan

No	Nama	Tanggal	Lokasi	Ketinggian	Jml Korban	Bukti
						<input type="button" value="Hapus"/> <input type="button" value="Tambah"/>

Swing Containers

- Panel
- Tabbed Pane
- ToolBar
- Internal Frame
- Layered Panel

Swing Controls

- Label
- ToggleButton
- RadioButton
- ComboBox
- List
- ScrollBar
- ProgressBar
- PasswordField
- Separator
- EditorPane
- Table
- Button
- CheckBox
- ButtonGroup
- TextField
- TextArea
- Slider
- FormattedText
- Spinner
- TextPane
- Tree

Swing Menus

- MenuBar
- Menu
- MenuItem
- MenuItem / CheckBox
- MenuItem / RadioButton
- PopupMenu
- Separator
- Swing Windows
- Dialog
- Color Chooser
- Frame
- FileChooser

108:10/1:1 11:52 AM 7/11/2024

- Koneksi DB

The screenshot shows the Apache NetBeans IDE 20 interface with two code editors side-by-side.

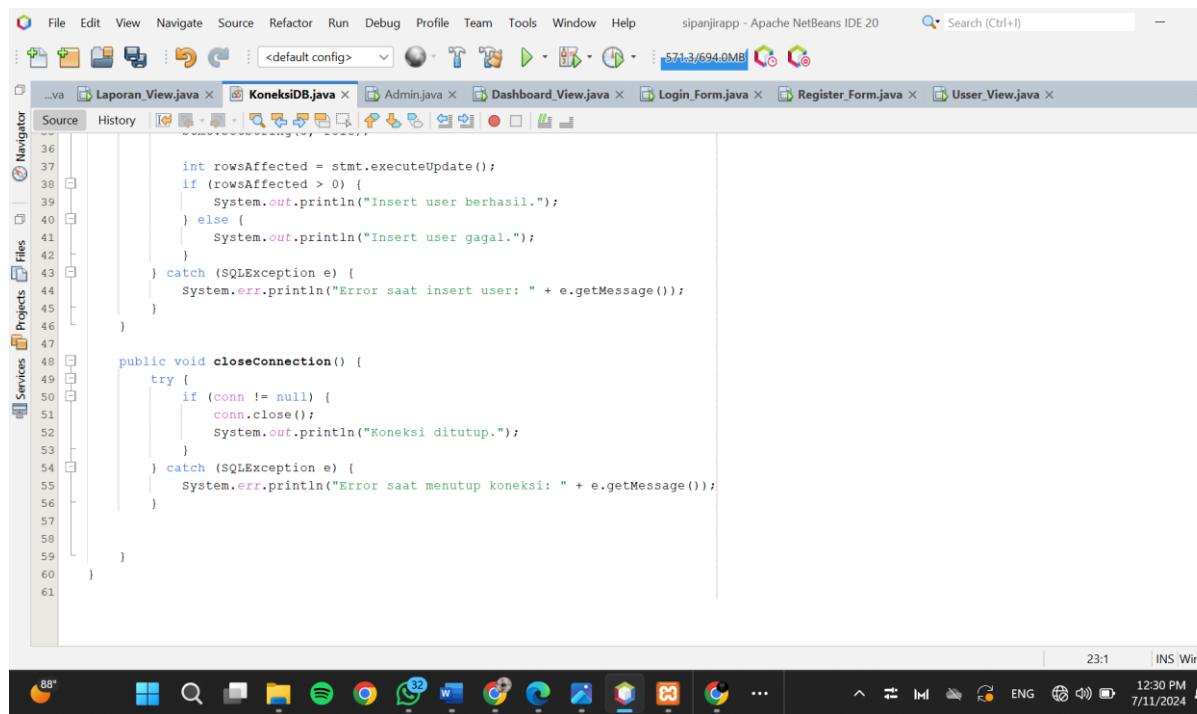
**Left Editor (Line 1 to 29):**

```
1 package util;
2
3 import java.sql.Connection;
4 import java.sql.DriverManager;
5 import java.sql.PreparedStatement;
6 import java.sql.SQLException;
7
8 public class KoneksiDB {
9     private static final String DB_URL = "jdbc:mysql://localhost:3306/db_sipanjir";
10    private static final String DB_USER = "root";
11    private static final String DB_PASSWORD = "";
12
13    private Connection conn;
14
15    public KoneksiDB() {
16        try {
17            conn = DriverManager.getConnection(DB_URL, DB_USER, DB_PASSWORD);
18        } catch (SQLException e) {
19            System.err.println("Kesalahan koneksi database: " + e.getMessage());
20        }
21    }
22
23
24    public Connection getConnection() {
25        return conn;
26    }
27
28    public void insertUser(String nama, String nohp, String username, String password, String role) {
29        String sql = "INSERT INTO users (nama, no_hp, username, password, role) VALUES (?, ?, ?, ?, ?)";
30    }
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55}
```

**Right Editor (Line 28 to 55):**

```
28    public void insertUser(String nama, String nohp, String username, String password, String role) {
29        String sql = "INSERT INTO users (nama, no_hp, username, password, role) VALUES (?, ?, ?, ?, ?)";
30        try (PreparedStatement stmt = conn.prepareStatement(sql)) {
31            stmt.setString(1, nama);
32            stmt.setString(2, nohp);
33            stmt.setString(3, username);
34            stmt.setString(4, password);
35            stmt.setString(5, role);
36
37            int rowsAffected = stmt.executeUpdate();
38            if (rowsAffected > 0) {
39                System.out.println("Insert user berhasil.");
40            } else {
41                System.out.println("Insert user gagal.");
42            }
43        } catch (SQLException e) {
44            System.err.println("Error saat insert user: " + e.getMessage());
45        }
46    }
47
48    public void closeConnection() {
49        try {
50            if (conn != null) {
51                conn.close();
52                System.out.println("Koneksi ditutup.");
53            }
54        } catch (SQLException e) {
55            System.err.println("Error saat menutup koneksi: " + e.getMessage());
56        }
57    }
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```
int rowsAffected = stmt.executeUpdate();
if (rowsAffected > 0) {
    System.out.println("Insert user berhasil.");
} else {
    System.out.println("Insert user gagal.");
}
} catch (SQLException e) {
    System.err.println("Error saat insert user: " + e.getMessage());
}

public void closeConnection() {
try {
    if (conn != null) {
        conn.close();
        System.out.println("Koneksi ditutup.");
    }
} catch (SQLException e) {
    System.err.println("Error saat menutup koneksi: " + e.getMessage());
}
}
```

## 1.1 Demo Video Aplikasi

Berikut adalah Kode QR dari aplikasi kami yang sudah akmi upload di Youtube dan dapat disaksikan dengan men Scan Kode QR Berikut :



## Penutup

Sebagai penutup, pengembangan aplikasi "Sipanjur" dalam rangka memenuhi tugas Ujian Akhir Semester (UAS) pada mata kuliah Pemrograman Berorientasi Objek (PBO) telah berhasil mencapai tujuan yang diharapkan. Aplikasi ini dirancang untuk mempermudah masyarakat dalam melaporkan dan memantau kejadian banjir secara real-time, serta

menyediakan akses cepat ke kontak darurat yang penting. Dengan fitur-fitur yang komprehensif, "Sipanjir" diharapkan dapat memberikan kontribusi nyata dalam penanganan bencana banjir di Indonesia. Proses pengembangan aplikasi ini juga memberikan pengalaman berharga dalam penerapan konsep-konsep PBO, yang diharapkan dapat berguna dalam pengembangan proyek-proyek teknologi di masa depan. Melalui makalah ini, kami berharap dapat memberikan gambaran yang jelas mengenai pentingnya teknologi dalam mitigasi bencana dan pengelolaan informasi darurat.

#### Bukti Screenshot Acc Judul

