

Laporan Project Ujian Tengah Semester



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2025

1. Splash Screen & Navigasi Intent

Kesesuaian alur transisi dan logo aplikasi

a. SplashActivity.java

```
package com.bagas.smartattendanceapp;

import android.content.Intent;
import android.os.Bundle;
import android.os.Handler;
import android.util.Log;

import androidx.appcompat.app.AppCompatActivity;

public class SplashActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_splash);

        Log.d("Lifecycle", "SplashActivity - onCreate");

        new Handler().postDelayed(() -> {
            Intent intent = new Intent(SplashActivity.this,
LoginActivity.class);
            startActivity(intent);
            finish();
        }, 3000);
    }

    @Override
    protected void onStart() {
        super.onStart();
        Log.d("Lifecycle", "SplashActivity - onStart");
    }

    @Override
    protected void onResume() {
        super.onResume();
        Log.d("Lifecycle", "SplashActivity - onResume");
    }

    @Override
    protected void onPause() {
        super.onPause();
        Log.d("Lifecycle", "SplashActivity - onPause");
    }

    @Override
    protected void onStop() {
        super.onStop();
        Log.d("Lifecycle", "SplashActivity - onStop");
    }

    @Override
    protected void onDestroy() {
        super.onDestroy();
        Log.d("Lifecycle", "SplashActivity - onDestroy");
    }
}
```

b. activity_splash.xml

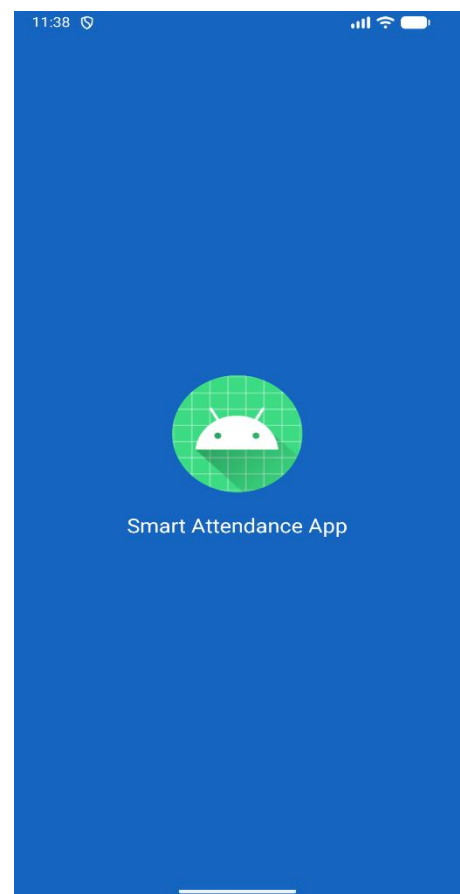
```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#1565C0"
    android:gravity="center">

    <!-- Logo Aplikasi -->
    <ImageView
        android:id="@+id/imageView"
        android:src="@mipmap/ic_launcher"
        android:layout_width="120dp"
        android:layout_height="120dp"
        android:layout_centerHorizontal="true"/>

    <!-- Nama Aplikasi -->
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Smart Attendance App"
        android:textColor="#FFFFFF"
        android:textSize="20sp"
        android:layout_below="@id/imageView"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"/>

</RelativeLayout>
```

Hasil Screenshoot Splash Screen



2. Login Functionality

Validasi input dan logika Java

a. LoginActivity.java

```
package com.bagas.smartattendanceapp;

import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class LoginActivity extends AppCompatActivity {

    EditText etUsername, etPassword;
    Button btnLogin;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);

        Log.d("Lifecycle", "LoginActivity - onCreate");

        etUsername = findViewById(R.id.etUsername);
        etPassword = findViewById(R.id.etPassword);
        btnLogin = findViewById(R.id.btnLogin);

        btnLogin.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String user = etUsername.getText().toString();
                String pass = etPassword.getText().toString();

                if (user.equals("bagas") && pass.equals("12345")) {
                    Intent intent = new Intent(LoginActivity.this, DashboardActivity.class);
                    startActivity(intent);
                    finish();
                } else {
                    Toast.makeText(LoginActivity.this, "Username atau Password salah",
Toast.LENGTH_SHORT).show();
                }
            }
        });
    }

    @Override
    protected void onStart() {
        super.onStart();
        Log.d("Lifecycle", "LoginActivity - onStart");
    }

    @Override
    protected void onResume() {
        super.onResume();
        Log.d("Lifecycle", "LoginActivity - onResume");
    }

    @Override
    protected void onPause() {
        super.onPause();
        Log.d("Lifecycle", "LoginActivity - onPause");
    }

    @Override
    protected void onStop() {
        super.onStop();
        Log.d("Lifecycle", "LoginActivity - onStop");
    }

    @Override
    protected void onDestroy() {
        super.onDestroy();
        Log.d("Lifecycle", "LoginActivity - onDestroy");
    }
}
```

b. activity_login.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:padding="24dp"
    android:background="#E3F2FD">

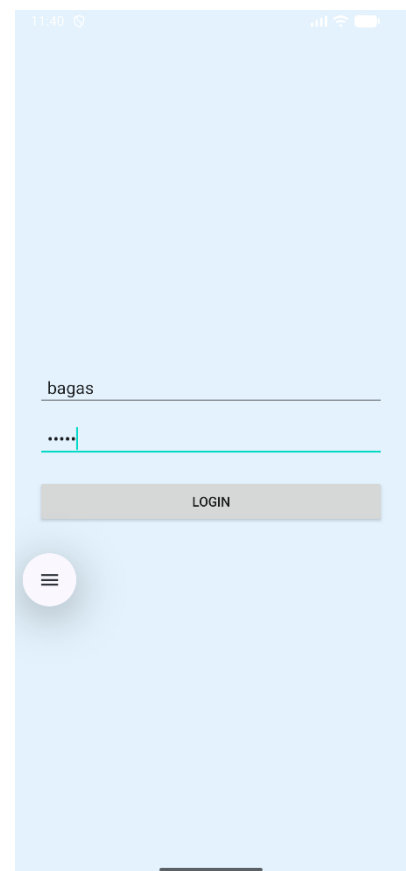
    <EditText
        android:id="@+id/etUsername"
        android:hint="Username"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:padding="10dp"/>

    <EditText
        android:id="@+id/etPassword"
        android:hint="Password"
        android:inputType="textPassword"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:padding="10dp"
        android:layout_marginTop="10dp"/>

    <Button
        android:id="@+id/btnLogin"
        android:text="Login"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"/>

</LinearLayout>
```

Hasil Screenshoot Login Functionality



3. Dashboard (Absensi)

a. DashboardActivity.java

```
package com.bagas.smartattendanceapp;

import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.Locale;

public class DashboardActivity extends AppCompatActivity {

    Button btnMasuk, btnKeluar;
    TextView tvStatus;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_dashboard);

        Log.d("Lifecycle", "DashboardActivity - onCreate");

        btnMasuk = findViewById(R.id.btnMasuk);
        btnKeluar = findViewById(R.id.btnKeluar);
        tvStatus = findViewById(R.id.tvStatus);

        btnMasuk.setOnClickListener(v -> {
            String waktu = new SimpleDateFormat("HH:mm:ss",
                Locale.getDefault()).format(new Date());
            tvStatus.setText("Absen Masuk: " + waktu);
        });

        btnKeluar.setOnClickListener(v -> {
            String waktu = new SimpleDateFormat("HH:mm:ss",
                Locale.getDefault()).format(new Date());
            tvStatus.setText("Absen Keluar: " + waktu);
        });
    }

    @Override
    protected void onStart() {
        super.onStart();
        Log.d("Lifecycle", "DashboardActivity - onStart");
    }

    @Override
    protected void onResume() {
        super.onResume();
        Log.d("Lifecycle", "DashboardActivity - onResume");
    }

    @Override
    protected void onPause() {
        super.onPause();
        Log.d("Lifecycle", "DashboardActivity - onPause");
    }

    @Override
    protected void onStop() {
        super.onStop();
        Log.d("Lifecycle", "DashboardActivity - onStop");
    }

    @Override
    protected void onDestroy() {
        super.onDestroy();
        Log.d("Lifecycle", "DashboardActivity - onDestroy");
    }
}
```

b. Activity_dashboard.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical"
    android:gravity="center"
    android:padding="24dp"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#E8F5E9">

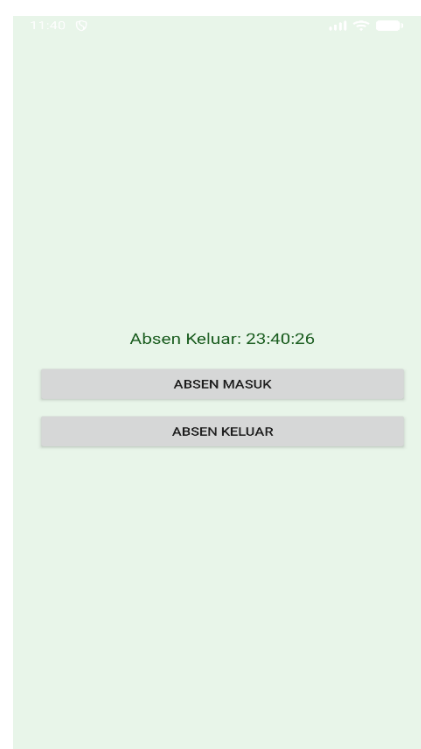
    <TextView
        android:id="@+id/tvStatus"
        android:text="Silakan lakukan absensi"
        android:textSize="18sp"
        android:layout_marginBottom="20dp"
        android:textColor="#1B5E20"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>

    <Button
        android:id="@+id/btnMasuk"
        android:text="Absen Masuk"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>

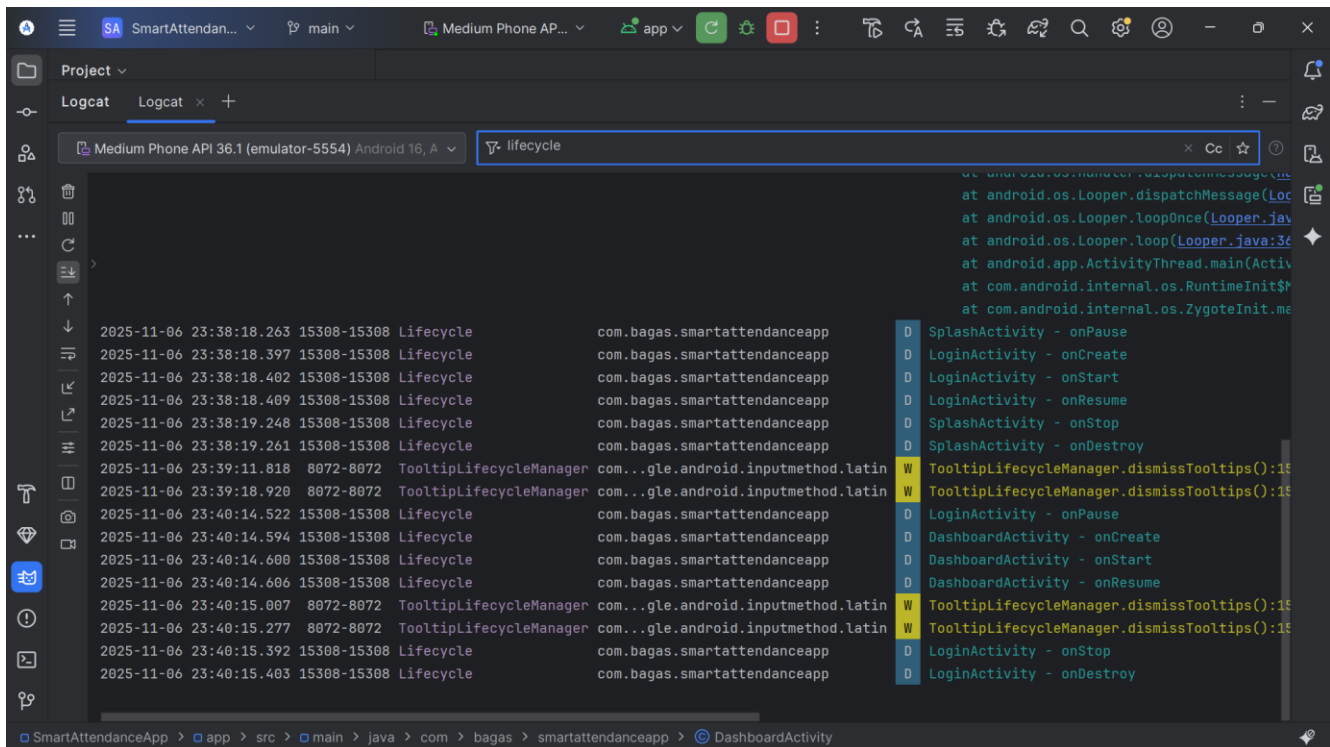
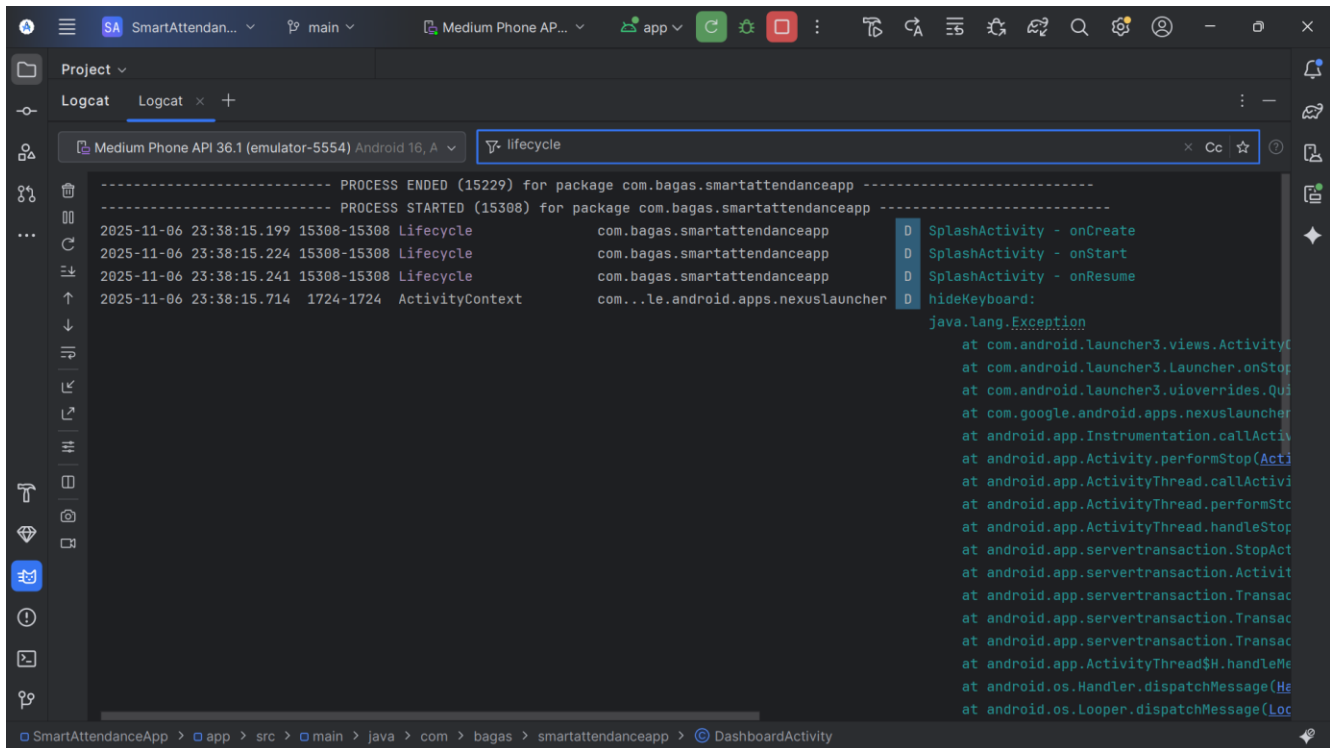
    <Button
        android:id="@+id/btnKeluar"
        android:text="Absen Keluar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="10dp"/>

</LinearLayout>
```

Hasil Screenshoot Dashboard (Absensi)



4. LOGCHAT



KESIMPULAN

Project SmartAttendanceApp merupakan aplikasi Android yang dirancang untuk mencatat absensi secara digital menggunakan tampilan modern berbasis Material Design. Aplikasi ini terdiri dari beberapa aktivitas utama seperti Splash Screen, Login Page, dan Dashboard, yang saling terhubung untuk mendukung proses kehadiran pengguna secara efisien.