

**LAPORAN PROJECT MOBILE PROGRAMMING
STUDENT ATTENDANCE APPLICATION**



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I. Source Code

A. SplashActivity.java

```
student-attendance / app / src / main / java / com / vinaekal / absensimahasiswa / SplashActivity.java
vinaekalayalani add log lifecycle at all page activity

Code Blame 69 lines (58 loc) · 1.93 KB

1 package com.vinaekal.absensimahasiswa;
2
3 import android.content.Intent;
4 import android.os.Bundle;
5 import android.os.Handler;
6 import android.util.Log;
7
8 import androidx.activity.EdgeToEdge;
9 import androidx.appcompat.app.AppCompatActivity;
10 import androidx.core.graphics.Insets;
11 import androidx.core.view.ViewCompat;
12 import androidx.core.view.WindowInsetsCompat;
13
14 public class SplashActivity extends AppCompatActivity {
15
16     @Override
17     protected void onCreate(Bundle savedInstanceState) {
18         super.onCreate(savedInstanceState);
19         EdgeToEdge.enable(this);
20         setContentView(R.layout.activity_splash);
21         ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
22             Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
23             v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
24             return insets;
25         });
26
27         // Log lifecycle
28         Log.d("Lifecycle", "onCreate: SplashActivity");
29
30         new Handler().postDelayed(new Runnable() {
31             @Override
32             public void run() {
33                 Intent intent = new Intent(SplashActivity.this, LoginActivity.class);
34                 startActivity(intent);
35                 finish();
36             }
37         }, 3000);
38     }
39
40     @Override
41     protected void onStart() {
42         super.onStart();
43         Log.d("Lifecycle", "onStart: SplashActivity");
44     }
45
46     @Override
47     protected void onResume() {
48         super.onResume();
49         Log.d("Lifecycle", "onResume: SplashActivity");
50     }
51
52     @Override
53     protected void onPause() {
54         super.onPause();
55         Log.d("Lifecycle", "onPause: SplashActivity");
56     }
57
58     @Override
59     protected void onStop() {
60         super.onStop();
61         Log.d("Lifecycle", "onStop: SplashActivity");
62     }
63
64     @Override
65     protected void onDestroy() {
66         super.onDestroy();
67         Log.d("Lifecycle", "onDestroy: SplashActivity");
68     }
69 }
```

B. activity_splash.xml

```
student-attendance / app / src / main / res / layout / activity_splash.xml  📄

vinaekalayalani initial commit

Code Blame 30 lines (28 loc) · 1.29 KB  🗑️

1  <?xml version="1.0" encoding="utf-8"?>
2  <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      xmlns:app="http://schemas.android.com/apk/res-auto"
4      xmlns:tools="http://schemas.android.com/tools"
5      android:id="@+id/main"
6      android:layout_width="match_parent"
7      android:layout_height="match_parent"
8      tools:context=".SplashActivity"
9      android:background="#FFFFFF">
10
11      <LinearLayout
12          android:id="@+id/splashLayout"
13          android:layout_width="0dp"
14          android:layout_height="wrap_content"
15          android:orientation="vertical"
16          app:layout_constraintTop_toTopOf="parent"
17          app:layout_constraintStart_toStartOf="parent"
18          app:layout_constraintEnd_toEndOf="parent"
19          app:layout_constraintBottom_toBottomOf="parent">
20
21          <ImageView
22              android:id="@+id/logoSplash"
23              android:layout_width="120dp"
24              android:layout_height="120dp"
25              android:layout_gravity="center"
26              android:src="@drawable/logoupb"
27              android:contentDescription="Logo"
28              android:layout_marginBottom="16dp" />
29      </LinearLayout>
30  </androidx.constraintlayout.widget.ConstraintLayout>
```

C. LoginActivity.java

student-attendance / app / src / main / java / com / vinaekal / absensimahasiswa / LoginActivity.java

vinaekalayani initial commit

Code Blame 84 lines (78 loc) · 2.66 KB

```
1 package com.vinaekal.absensimahasiswa;
2
3 import android.content.Intent;
4 import android.os.Bundle;
5 import android.util.Log;
6 import android.widget.Button;
7 import android.widget.EditText;
8 import android.widget.Toast;
9
10 import androidx.activity.EdgeToEdge;
11 import androidx.appcompat.app.AppCompatActivity;
12 import androidx.core.graphics.Insets;
13 import androidx.core.view.ViewCompat;
14 import androidx.core.view.WindowInsetsCompat;
15
16 public class LoginActivity extends AppCompatActivity {
17
18     EditText editUsername, editPassword;
19     Button buttonLogin;
20
21     @Override
22     protected void onCreate(Bundle savedInstanceState) {
23         super.onCreate(savedInstanceState);
24         EdgeToEdge.enable(this);
25         setContentView(R.layout.activity_login);
26         ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
27             Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
28             v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
29             return insets;
30         });
31
32         // Log lifecycle
33         Log.d("Lifecycle", "onCreate: LoginActivity");
34
35         editUsername = findViewById(R.id.editUsername);
36         editPassword = findViewById(R.id.editPassword);
37         buttonLogin = findViewById(R.id.buttonLogin);
38
39         buttonLogin.setOnClickListener(view -> {
40             String username = editUsername.getText().toString().trim();
41             String password = editPassword.getText().toString().trim();
42
43             if (username.isEmpty() || password.isEmpty()) {
44                 Toast.makeText(this, "Please fill all fields", Toast.LENGTH_SHORT).show();
45             } else if (username.equals("312410261") && password.equals("123456")) {
46                 Toast.makeText(this, "Login success!", Toast.LENGTH_SHORT).show();
47                 startActivity(new Intent(this, DashboardActivity.class));
48                 finish();
49             } else {
50                 Toast.makeText(this, "Invalid Credential", Toast.LENGTH_SHORT).show();
51             }
52         });
53     }
54
55     @Override
56     protected void onStart() {
57         super.onStart();
58         Log.d("Lifecycle", "onStart: LoginActivity");
59     }
60
61     @Override
62     protected void onResume() {
63         super.onResume();
64         Log.d("Lifecycle", "onResume: LoginActivity");
65     }
66
67     @Override
68     protected void onPause() {
69         super.onPause();
70         Log.d("Lifecycle", "onPause: LoginActivity");
71     }
72
73     @Override
74     protected void onStop() {
75         super.onStop();
76         Log.d("Lifecycle", "onStop: LoginActivity");
77     }
78
79     @Override
80     protected void onDestroy() {
81         super.onDestroy();
82         Log.d("Lifecycle", "onDestroy: LoginActivity");
83     }
84 }
```

D. activity_login.xml

```
student-attendance / app / src / main / res / layout / activity_login.xml
vinaekalayalani initial commit

Code Blame 85 lines (78 loc) · 3.21 KB

1  <?xml version="1.0" encoding="utf-8"?>
2  <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      xmlns:app="http://schemas.android.com/apk/res-auto"
4      xmlns:tools="http://schemas.android.com/tools"
5      android:id="@+id/main"
6      android:layout_width="match_parent"
7      android:layout_height="match_parent"
8      android:background="#00C35A"
9      tools:context=".LoginActivity">
10
11      <LinearLayout
12          android:id="@+id/loginLayout"
13          android:layout_width="8dp"
14          android:layout_height="wrap_content"
15          android:layout_margin="24dp"
16          android:orientation="vertical"
17          android:padding="24dp"
18          android:background="@drawable/bg_login_card"
19          app:layout_constraintTop_toTopOf="parent"
20          app:layout_constraintStart_toStartOf="parent"
21          app:layout_constraintEnd_toEndOf="parent"
22          app:layout_constraintBottom_toBottomOf="parent">
23
24          <ImageView
25              android:id="@+id/logoLogin"
26              android:layout_width="128dp"
27              android:layout_height="128dp"
28              android:layout_gravity="center"
29              android:src="@drawable/logo"
30              android:contentDescription="Logo"
31              android:layout_marginBottom="16dp"/>
32
33          <TextView
34              android:id="@+id/textTitle"
35              android:layout_width="match_parent"
36              android:layout_height="wrap_content"
37              android:text="Student Attendance"
38              android:textSize="28dp"
39              android:textStyle="bold"
40              android:textColor="#00C35A"
41              android:textAlignment="center"
42              android:layout_marginBottom="4dp"/>
43
44          <TextView
45              android:id="@+id/textDescription"
46              android:layout_width="match_parent"
47              android:layout_height="wrap_content"
48              android:text="Please login with your credentials."
49              android:textSize="15dp"
50              android:textColor="#555555"
51              android:textAlignment="center"
52              android:layout_marginBottom="16dp"/>
53
54          <EditText
55              android:id="@+id/editUsername"
56              android:layout_width="match_parent"
57              android:layout_height="wrap_content"
58              android:inputType="text"
59              android:hint="Username"
60              android:background="@drawable/bg_edittext"
61              android:padding="12dp"
62              android:textColor="#012AGA"
63              android:textColorHint="#9B84AE"
64              android:layout_marginBottom="12dp"/>
65
66          <EditText
67              android:id="@+id/editPassword"
68              android:layout_width="match_parent"
69              android:layout_height="wrap_content"
70              android:inputType="textPassword"
71              android:hint="Password"
72              android:background="@drawable/bg_edittext"
73              android:padding="12dp"
74              android:textColor="#012AGA"
75              android:textColorHint="#9B84AE"
76              android:layout_marginBottom="28dp"/>
77
78          <Button
79              android:id="@+id/buttonLogin"
80              android:layout_width="match_parent"
81              android:layout_height="wrap_content"
82              android:text="Login"
83              android:backgroundTint="#FFC43E"/>
84      </LinearLayout>
85  </androidx.constraintlayout.widget.ConstraintLayout>
```

E. DashboardActivity.java

```
udent-attendance / app / src / main / java / com / vinaekal / absensimahasiswa / DashboardActivity.java
vinaekal@vinaekal: add log lifecycle at all page activity

Code Blame 115 lines (95 loc) · 3.63 KB
1 package com.vinaekal.absensimahasiswa;
2
3 import android.os.Bundle;
4 import android.util.Log;
5 import android.widget.Button;
6 import android.widget.TextView;
7 import android.widget.Toast;
8
9 import androidx.activity.EdgeToEdge;
10 import androidx.appcompat.app.AppCompatActivity;
11 import androidx.core.graphics.Insets;
12 import androidx.core.view.ViewCompat;
13 import androidx.core.view.WindowInsetsCompat;
14
15 import java.text.SimpleDateFormat;
16 import java.util.Calendar;
17 import java.util.Locale;
18
19 public class DashboardActivity extends AppCompatActivity {
20
21     TextView testGreeting, testDate, testClockInTime, testClockOutTime;
22     Button buttonClockIn, buttonClockOut;
23
24     private String clockInTime = "-", clockOutTime = "-";
25
26     @Override
27     protected void onCreate(Bundle savedInstanceState) {
28         super.onCreate(savedInstanceState);
29         EdgeToEdge.enable(this);
30         setContentView(R.layout.activity_dashboard);
31         ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
32             Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
33             v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
34             return insets;
35         });
36
37         // Log lifecycle
38         Log.d("lifecycle", "onCreate: DashboardActivity");
39
40         testGreeting = findViewById(R.id.testGreeting);
41         testDate = findViewById(R.id.testDate);
42         testClockInTime = findViewById(R.id.testClockInTime);
43         testClockOutTime = findViewById(R.id.testClockOutTime);
44         buttonClockIn = findViewById(R.id.buttonClockIn);
45         buttonClockOut = findViewById(R.id.buttonClockOut);
46
47         updateGreeting();
48         updateDate();
49
50         buttonClockIn.setOnClickListener(v -> {
51             clockInTime = getCurrentTime();
52             testClockInTime.setText("Clock In: " + clockInTime);
53             Toast.makeText(this, "Clock In at " + clockInTime, Toast.LENGTH_SHORT).show();
54         });
55
56         buttonClockOut.setOnClickListener(v -> {
57             clockOutTime = getCurrentTime();
58             testClockOutTime.setText("Clock Out: " + clockOutTime);
59             Toast.makeText(this, "Clock Out at " + clockOutTime, Toast.LENGTH_SHORT).show();
60         });
61     }
62
63     @Override
64     protected void onStart() {
65         super.onStart();
66         Log.d("lifecycle", "onStart: DashboardActivity");
67     }
68
69     @Override
70     protected void onResume() {
71         super.onResume();
72         Log.d("lifecycle", "onResume: DashboardActivity");
73     }
74
75     @Override
76     protected void onPause() {
77         super.onPause();
78         Log.d("lifecycle", "onPause: DashboardActivity");
79     }
80
81     @Override
82     protected void onStop() {
83         super.onStop();
84         Log.d("lifecycle", "onStop: DashboardActivity");
85     }
86
87     @Override
88     protected void onDestroy() {
89         super.onDestroy();
90         Log.d("lifecycle", "onDestroy: DashboardActivity");
91     }
92
93     private void updateGreeting() {
94         Calendar calendar = Calendar.getInstance();
95         int hour = calendar.get(Calendar.HOUR_OF_DAY);
96         String greeting;
97         if (hour < 12) {
98             greeting = "Good Morning,";
99         } else if (hour < 18) {
100             greeting = "Good Afternoon,";
101         } else {
102             greeting = "Good Evening,";
103         }
104         testGreeting.setText(greeting);
105     }
106
107     private void updateDate() {
108         String date = new SimpleDateFormat("dd MMMM yyyy | hh:mm a", Locale.getDefault()).format(Calendar.getInstance().getTime());
109         testDate.setText(date);
110     }
111
112     private String getCurrentTime() {
113         return new SimpleDateFormat("HH:mm:ss", Locale.getDefault()).format(Calendar.getInstance().getTime());
114     }
115 }
```

F. activity_dashboard.xml

```
student-attendance / app / src / main / res / layout / activity_dashboard.xml
vinsakalayan add log lifecycle at all page activity

Code Blame 143 lines (128 loc) · 3.18 K


1 <?xml version="1.0" encoding="utf-8"?>
2 <android.support.design.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     tools:context="com.bharatshetty"
8 >
9
10 <LinearLayout
11     android:id="@+id/greeting_layout"
12     android:layout_width="wrap"
13     android:layout_height="wrap"
14     android:orientation="vertical"
15     android:padding="10dp"
16     android:paddingBottom="0dp"
17     app:layout_constraintStart_toStartOf="parent"
18     app:layout_constraintEnd_toEndOf="parent"
19 >
20
21 <TextView
22     android:id="@+id/textGreeting"
23     android:layout_width="match_parent"
24     android:layout_height="wrap_content"
25     android:text="Hi there, welcome back!"
26     android:textSize="16sp"
27     android:textStyle="bold"
28     android:layout_marginBottom="10dp"
29 >
30
31 <TextView
32     android:id="@+id/textWelcome"
33     android:layout_width="match_parent"
34     android:layout_height="wrap_content"
35     android:text="You are doing great!"
36     android:textSize="14sp"
37     android:layout_marginBottom="10dp"
38 >
39
40 <TextView
41     android:id="@+id/textAttendance"
42     android:layout_width="match_parent"
43     android:layout_height="wrap_content"
44     android:text="You have 100% attendance!"
45     android:textSize="14sp"
46     android:layout_marginBottom="10dp"
47 >
48
49 </LinearLayout>
50
51 <LinearLayout
52     android:id="@+id/attendance_layout"
53     android:layout_width="wrap"
54     android:layout_height="wrap"
55     android:orientation="vertical"
56     android:padding="10dp"
57     app:layout_constraintStart_toStartOf="parent"
58     app:layout_constraintEnd_toEndOf="parent"
59 >
60
61 <TextView
62     android:id="@+id/textAttendance"
63     android:layout_width="match_parent"
64     android:layout_height="wrap_content"
65     android:text="You have 100% attendance!"
66     android:textSize="14sp"
67     android:layout_marginBottom="10dp"
68 >
69
70 <TextView
71     android:id="@+id/textAttendance"
72     android:layout_width="match_parent"
73     android:layout_height="wrap_content"
74     android:text="You have 100% attendance!"
75     android:textSize="14sp"
76     android:layout_marginBottom="10dp"
77 >
78
79 </LinearLayout>
80
81 <LinearLayout
82     android:id="@+id/attendance_layout"
83     android:layout_width="wrap"
84     android:layout_height="wrap"
85     android:orientation="vertical"
86     android:padding="10dp"
87     app:layout_constraintStart_toStartOf="parent"
88     app:layout_constraintEnd_toEndOf="parent"
89 >
90
91 <TextView
92     android:id="@+id/textAttendance"
93     android:layout_width="match_parent"
94     android:layout_height="wrap_content"
95     android:text="You have 100% attendance!"
96     android:textSize="14sp"
97     android:layout_marginBottom="10dp"
98 >
99
100 <TextView
101     android:id="@+id/textAttendance"
102     android:layout_width="match_parent"
103     android:layout_height="wrap_content"
104     android:text="You have 100% attendance!"
105     android:textSize="14sp"
106     android:layout_marginBottom="10dp"
107 >
108
109 </LinearLayout>
110
111 </LinearLayout>
112
113 </LinearLayout>
114
115 <LinearLayout
116     android:id="@+id/attendance_layout"
117     android:layout_width="wrap"
118     android:layout_height="wrap"
119     android:orientation="vertical"
120     android:padding="10dp"
121     app:layout_constraintStart_toStartOf="parent"
122     app:layout_constraintEnd_toEndOf="parent"
123 >
124
125 <TextView
126     android:id="@+id/textAttendance"
127     android:layout_width="match_parent"
128     android:layout_height="wrap_content"
129     android:text="You have 100% attendance!"
130     android:textSize="14sp"
131     android:layout_marginBottom="10dp"
132 >
133
134 <TextView
135     android:id="@+id/textAttendance"
136     android:layout_width="match_parent"
137     android:layout_height="wrap_content"
138     android:text="You have 100% attendance!"
139     android:textSize="14sp"
140     android:layout_marginBottom="10dp"
141 >
142
143 </LinearLayout>
144
145 </android.support.design.widget.ConstraintLayout>
```


II. Screenshot Pages

A. Splash Page



B. Login Page



Student Attendance

Please login with your credentials.

Username

Password

Login

C. Dashboard Page

