



MOBILE APPLICATION DEVELOPMENT

ASSIGNMENT # 01

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SECTION	B
ROLL NO	<i>BSSE / Sp-22 / 037</i>
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“Developing a Personal Organizer App”

OBJECTIVE: The objective of this assignment is to assess students' understanding and practical application of basic Android UI elements (TextView, EditText, Button, and Icon), as well as functionality with Intent and WebView components. Students are expected to build a simple Android app that allows users to create and save tasks, view task details, and access useful links related to task management.

SCENARIO:

You have been hired to create a simple Personal Organizer App for users who want to improve their productivity by organizing their daily tasks. The app will allow users to add, view, and manage tasks with minimal effort. Additionally, it will provide quick access to productivity resources via an in-app browser.

REQUIREMENTS:

HOME SCREEN

Display a welcome message using a TextView.

Include an Add New Task button with an icon.

ADD TASK SCREEN

When the Add New Task button is clicked, it should open a new screen (using Intent) with the following:

- EditText for Task Title: Allow the user to enter the task name.
- EditText for Task Description: Allow the user to enter details about the task.
- Save , Task&Button to store the task.

TASK LIST SCREEN

Once a task is saved, display the list of tasks on a separate screen. Use TextView to display each task title. Clicking on a task should open a Task Detail Screen.

TASK DETAIL SCREEN

Display the full details of the task using TextView. Include a button labeled & More Tips that, when clicked, opens a WebView with a link to a popular productivity site (such as lifehacker.com or todoist.com).

EXTRA FEATURE (OPTIONAL)

Include a settings icon in the task list screen to enable future personalization options. For now, the icon can simply be an image without functionality.

EVALUATION CRITERIA:

UI Components: Proper use of TextView, EditText, Button, and Icon.

Navigation: Effective use of Intents to navigate between screens.

WebView Integration: Successful opening of an external link within the app.

Code Quality: Clear, maintainable, and well-documented code.

SUBMISSION GUIDELINES:

Submit your project files with a brief report on the structure of your app, including screenshots of each screen. Be sure to explain how each required component (TextView, EditText, Button, Icon, Intent, and WebView) was implemented in your app.

CODE:

1- Splash.java

```
package com.example.oneactivitytosecondactivity;

import androidx.appcompat.app.AppCompatActivity;

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

public class splash extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```

setContentView(R.layout.activity_splash);

new Handler().postDelayed(new Runnable() {
    @Override
    public void run() {
        Intent i = new Intent(splash.this, MainActivity.class);
        startActivity(i);

        finish();
    }
}, 3000);
}
}
}

```

activity_splash.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".splash"
    android:background="@color/white">
    <ImageView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:src="@drawable/baseline_cruelty_free_24"/>
    </LinearLayout>

```

2- MainActivity.java

```

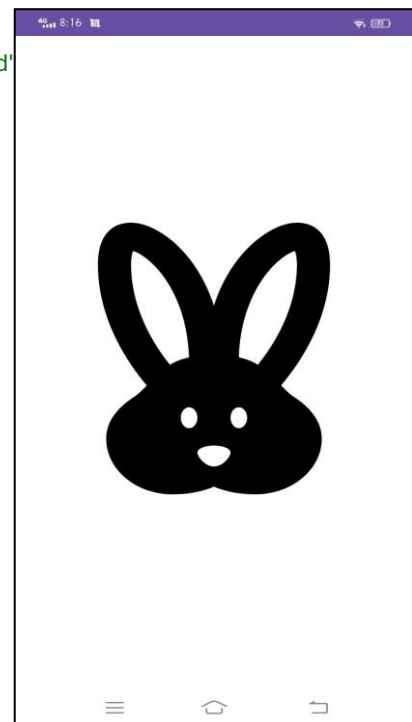
package com.example.oneactivitytosecondactivity;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {
    private Button move;
    private Button MORETIPS;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
    }
}

```



```
setContentView(R.layout.activity_main);
```

```
move = findViewById(R.id.move);
move.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this, second.class);
        startActivity(intent);
    }
});
```

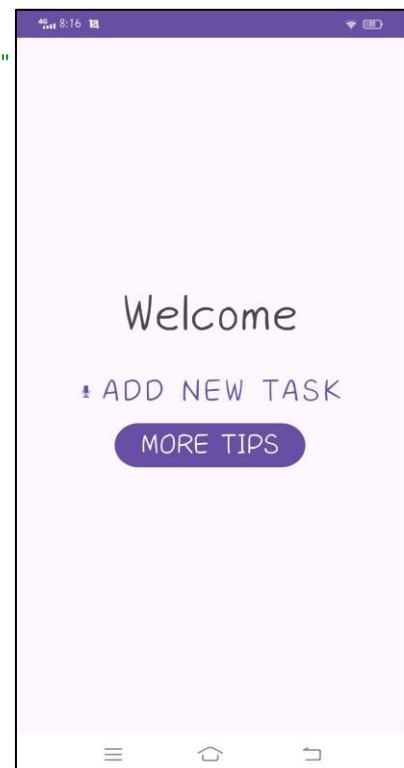
```
MORETIPS = findViewById(R.id.web123);
MORETIPS.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this, website.class);
        startActivity(intent);
    }
});
}
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="250dp"
        android:layout_gravity="center"
        android:text="Welcome"
        android:textSize="50dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <LinearLayout
        android:layout_width="296dp"
```



```

    android:layout_height="152dp"
    android:layout_gravity="center"
    android:orientation="vertical">

    <Button
    android:id="@+id/move"
    style="@style/Widget.MaterialComponents.Button.TextButton.Icon"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_marginTop="20dp"
    android:text="Add New Task"
    android:textSize="30dp"
    app:icon="@android:drawable/ic_btn_speak_now" />

    <Button
    android:id="@+id/web123"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:text="MORE TIPS"
    android:textSize="30sp"/>
</LinearLayout>

</LinearLayout>

```

3- second.java

```

package com.example.oneactivitytosecondactivity;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;

public class second extends AppCompatActivity {
    private Button save;
    private EditText taskName, taskDescription;

    private SharedPreferences sharedPreferences;

    @Override
    protected void onCreate(Bundle savedInstanceState) {

```

```

super.onCreate(savedInstanceState);
setContentView(R.layout.activity_second);

taskName = findViewById(R.id.taskName);
taskDescription = findViewById(R.id.taskDescription);
save = findViewById(R.id.save);

sharedPreferences = getSharedPreferences("TaskHistory", MODE_PRIVATE);

save.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        String name = taskName.getText().toString().trim();
        String description = taskDescription.getText().toString().trim();

        if (name.isEmpty()) {
            taskName.setError("Task Name is required!");
            taskName.requestFocus();
        } else if (description.isEmpty()) {
            taskDescription.setError("Task Description is required!");
            taskDescription.requestFocus();
        } else {
            SharedPreferences.Editor editor = sharedPreferences.edit();
            editor.putString("TASK_NAME", name);
            editor.putString("TASK_DESCRIPTION", description);
            editor.apply();

            Intent intent = new Intent(second.this, save.class);
            intent.putExtra("TASK_NAME", name);
            intent.putExtra("TASK_DESCRIPTION", description);
            startActivity(intent);
        }
    }
});
}
}

```

activity_second.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".second"
    android:orientation="vertical">

```

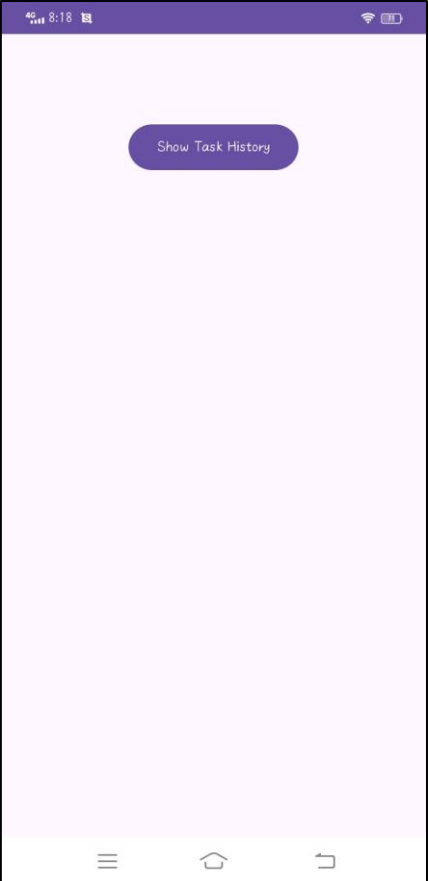
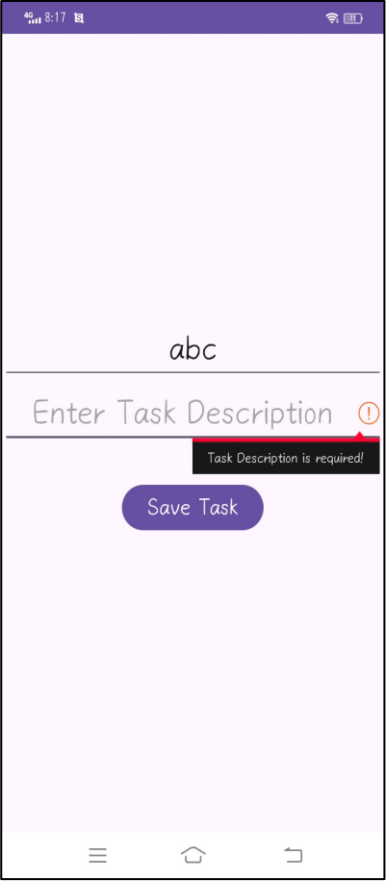
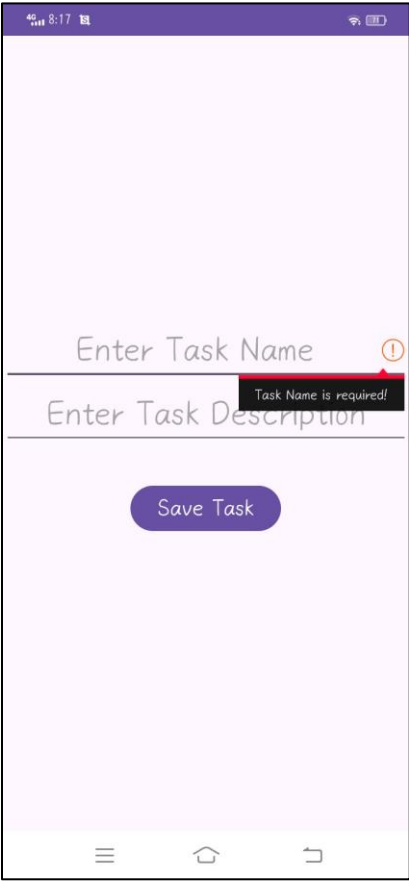
```

<EditText
    android:id="@+id/taskName"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="250dp"
    android:gravity="center"
    android:hint="Enter Task Name"
    android:textSize="30dp">

</EditText>
<EditText
    android:id="@+id/taskDescription"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:gravity="center"
    android:hint="Enter Task Description"
    android:textSize="30dp">
</EditText>
<Button
    android:id="@+id/save"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Save Task"
    android:textSize="20dp"
    android:layout_marginTop="30dp"
    android:layout_gravity="center">
</Button>
</LinearLayout>

```





4-save.java

```
package com.example.oneactivitytosecondactivity;

import androidx.appcompat.app.AppCompatActivity;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;

public class save extends AppCompatActivity {

    private Button historyButton;
    private TextView taskDetails;
    private SharedPreferences sharedPreferences;

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

        taskDetails = findViewById(R.id.taskDetails);
        historyButton = findViewById(R.id.historyButton);

        sharedPreferences = getSharedPreferences("TaskHistory", MODE_PRIVATE);

        historyButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

                String savedName = sharedPreferences.getString("TASK_NAME", "No Task Found");
                String savedDescription = sharedPreferences.getString("TASK_DESCRIPTION", "No Description Found");

                taskDetails.setText("Saved Task Name: " + savedName + "\nSaved Task Description: " + savedDescription);
            }
        });
    }
}
```

activity_save.xml

```
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/saveLayout"
```

```

android:layout_width="match_parent"
android:layout_height="match_parent"
android:orientation="vertical"
android:padding="16dp">

```

```

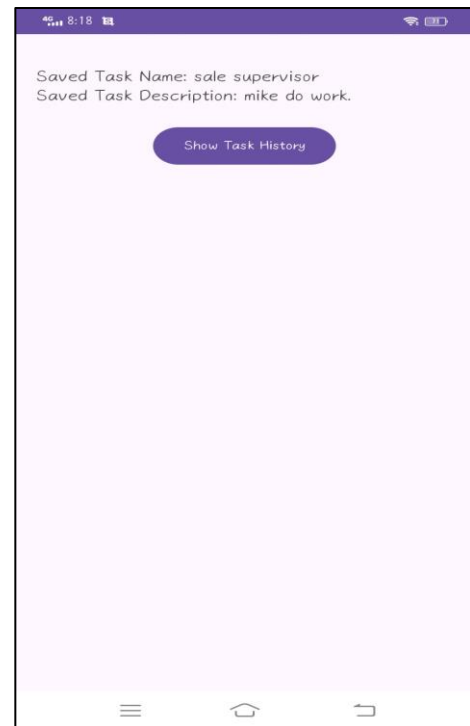
<TextView
    android:id="@+id/taskDetails"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:textSize="18sp"
    android:layout_marginTop="20dp"/>

```

```

<Button
    android:id="@+id/historyButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Show Task History"
    android:layout_gravity="center"
    android:layout_marginTop="20dp"/>
</LinearLayout>

```



5-website.java

```
package com.example.oneactivitytosecondactivity;
```

```
import androidx.appcompat.app.AppCompatActivity;
```

```
import android.os.Bundle;
```

```
import android.webkit.WebSettings;
```

```
import android.webkit.WebView;
```

```
import android.webkit.WebViewClient;
```

```
public class website extends AppCompatActivity {
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_website);
```

```
        WebView webView = findViewById(R.id.web);
```

```
        WebSettings webSettings = webView.getSettings();
```

```
        webSettings.setJavaScriptEnabled(true);
```

```
        webView.setWebViewClient(new WebViewClient());
```

```
        webView.loadUrl("https://todoist.com/");
```

```
}  
}
```

activity_website.xml

```
<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout  
    xmlns:android="http://schemas.android.com/apk/res/android"  
    xmlns:app="http://schemas.android.com/apk/res-auto"  
    xmlns:tools="http://schemas.android.com/tools"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    tools:context=".website">  
    <WebView  
        android:id="@+id/web"  
        android:layout_width="match_parent"  
        android:layout_height="match_parent"/>  
    </LinearLayout>
```

