



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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Experiment-3.3

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Section/Group: 707/B

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Subject Name: Mobile Application Development Lab

Subject Code: 20CSP-356

1. **Aim:** Design the Android application using menus and action bar.
2. **Objective:** Understanding of the different user interface and different layouts.
3. **Script and Output:**

Activity main.xml

```
<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout

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=".MainActivity">

</androidx.constraintlayout.widget.ConstraintLayout>
```

layout_menu.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android" >
<item android:id="@+id/search_item" android:title="Search" />
<item android:id="@+id/upload_item" android:title="Upload" />
<item android:id="@+id/copy_item" android:title="Copy" />
<item android:id="@+id/print_item" android:title="Print" />
<item android:id="@+id/share_item" android:title="Share" />
<item android:id="@+id/bookmark_item"
android:title="BookMark" />
</menu>
```

MainActivity.java

```
package com.example.fragment;
import androidx.annotation.NonNull;
import androidx.appcompat.app.ActionBar;
import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState); setContentView(R.layout.activity_main);
        // calling the action bar
        ActionBar actionBar = getSupportActionBar();

        // customize the back button
        actionBar.setHomeAsUpIndicator(R.drawable.ic_baseline_arrow_back_24);

        // showing the back button in action bar
        actionBar.setDisplayHomeAsUpEnabled(true);
```



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```
}
```

```
@Override
```

```
public boolean onCreateOptionsMenu(Menu menu) {
```

```
    getMenuInflater().inflate(R.menu.layout_menu, menu); return true;
```

```
}
```

```
@Override
```

```
public boolean onOptionsItemSelected(@NonNull MenuItem item) {
```

```
    Toast.makeText(this, "Selected Item: " + item.getTitle(),
```

```
    Toast.LENGTH_SHORT).show();
```

```
    switch (item.getItemId()) { case R.id.search_item:
```

```
        return true;
```

```
        case R.id.upload_item: return true;
```

```
        case R.id.copy_item: return true;
```

```
        case R.id.print_item: return true;
```

```
        case R.id.share_item: return true;
```

```
        case R.id.bookmark_item: return true;
```

```
        case android.R.id.home: this.finish();
```

```
        return false;
```

```
        default:
```

```
            return super.onOptionsItemSelected(item);
```

```
    }
```

```
}
```

```
}
```

Output:

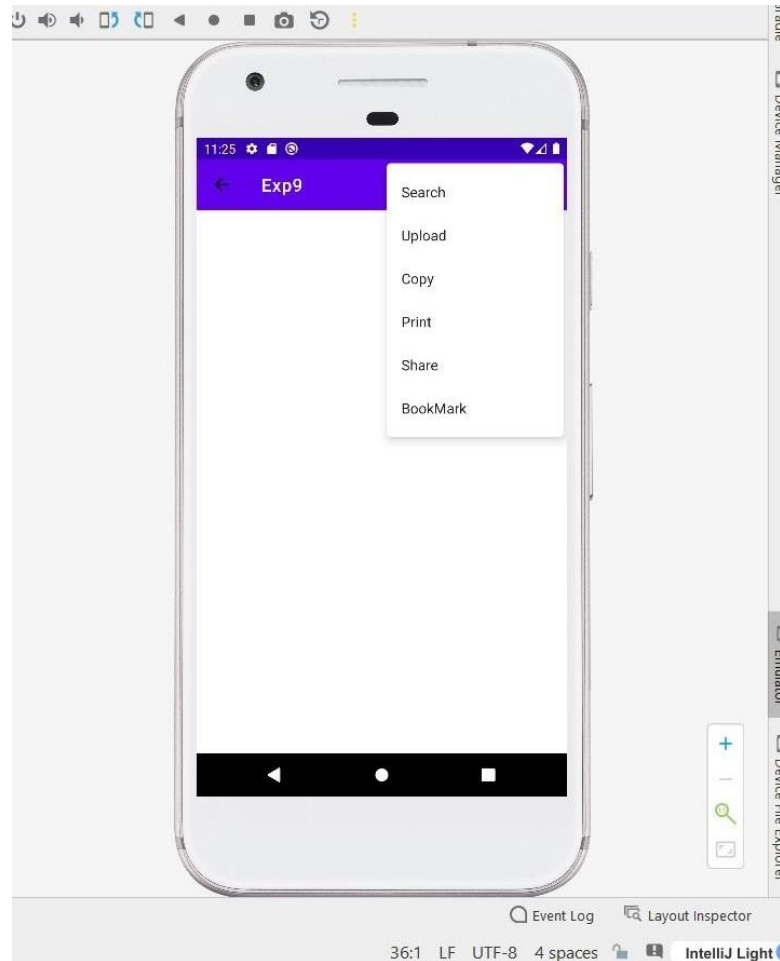


Fig: 1.1

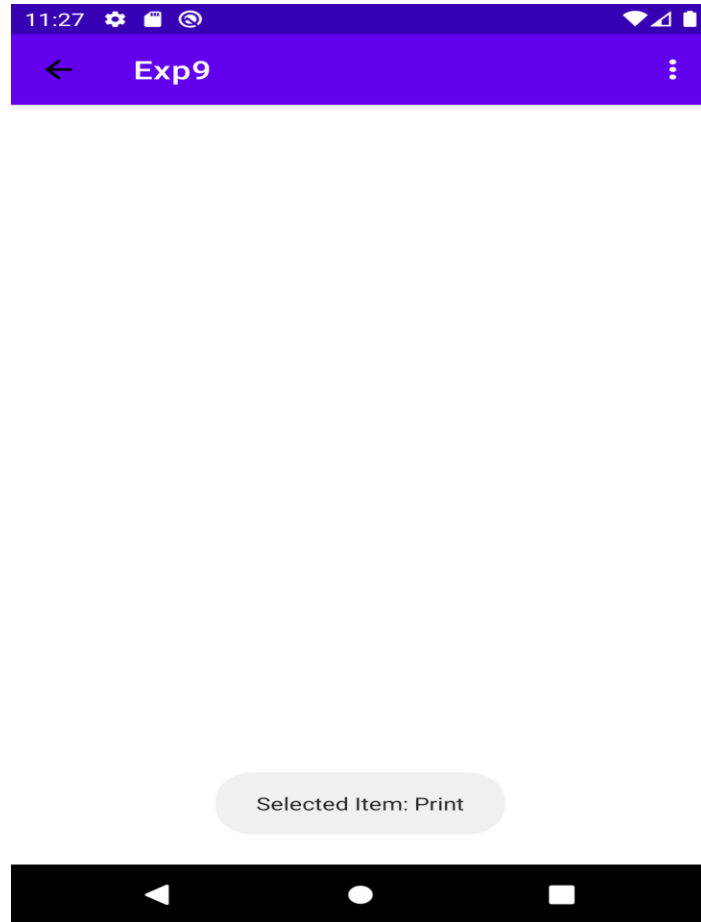


Fig:1.2

Outcomes:

1. Learn about how to add menu items in an app.
2. Learn about modifying and adding action bar .
3. Learn about handling of menu item click.