# Mobile Dev Week 3 Lab

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## Food Parcels

### Task 1

```kotlin
// called when we wish to view the pizza
fun viewPizza(view: View) {
    val intent = Intent( packageContext: this, ImageDisplay::class.java).apply { this: Intent
        putExtra( name: "description", value: "pizza")
        putExtra( name: "id", R.drawable.pizza)
    }
    startActivity(intent)
}
```

Figure 1: The code that allows the two activities to connect with each other

To allow for each activity to communicate with each other for consistency across the app, we can use intents. With intents we are able to declare what activity we wish to be able to move onto as well as the data that should go along with it. In this case we are able to send a description and the id of the photo that has been touched so that we can show a larger version of it along with it's short description.

```xml
<TableLayout
    android:id="@+id/tblImages"
    android:layout_width="104dp"
    android:layout_height="408dp"
    android:layout_marginTop="15dp"
    android:layout_marginBottom="15dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">

    <TableRow
        android:layout_width="326dp"
        android:layout_height="match_parent">

        <ImageView
            android:id="@+id/imgPizza"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:onClick="viewPizza"
            app:srcCompat="@drawable/pizza" />
    </TableRow>

    <TableRow
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <ImageView
            android:id="@+id/imgNachos"
            android:layout_width="100dp"
            android:layout_height="100dp"
            android:onClick="viewNachos"
            app:srcCompat="@drawable/nachos" />
    </TableRow>

    <TableRow
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <ImageView
            android:id="@+id/imgTakis"
            android:layout_width="100dp"
```

```xml
<Button
    android:id="@+id/btnBack"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="17dp"
    android:onClick="back"
    android:text="Go Back"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/lblDescription" />

<TextView
    android:id="@+id/lblDescription"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="14dp"
    android:layout_marginBottom="7dp"
    android:text="TextView"
    app:layout_constraintBottom_toTopOf="@+id/btnBack"
    app:layout_constraintEnd_toEndOf="@+id/btnBack"
    app:layout_constraintTop_toBottomOf="@+id/imgLarge" />

<ImageView
    android:id="@+id/imgLarge"
    android:layout_width="0dp"
    android:layout_height="0dp"
    android:layout_marginStart="55dp"
    android:layout_marginTop="40dp"
    android:layout_marginEnd="55dp"
    android:layout_marginBottom="172dp"
    app:layout_constraintBottom_toTopOf="@+id/lblDescription"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:srcCompat="@mipmap/ic_launcher" />
```

Figure 2: Part of the XML used for the activities

```
override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity_image_display)

    // get the content from the intent that started this activity
    val message = intent.getStringExtra( name: "description")
    val id = intent.getIntExtra( name: "id", defaultValue: 0)
    lblDescription.text = message
    imgLorge.setImageDrawable(resources.getDrawable(id))
}
```

Figure 3: Code used to set the views in the image view activity

Here we are now collecting the information stored in the intent from the previous activity to display the information requested.
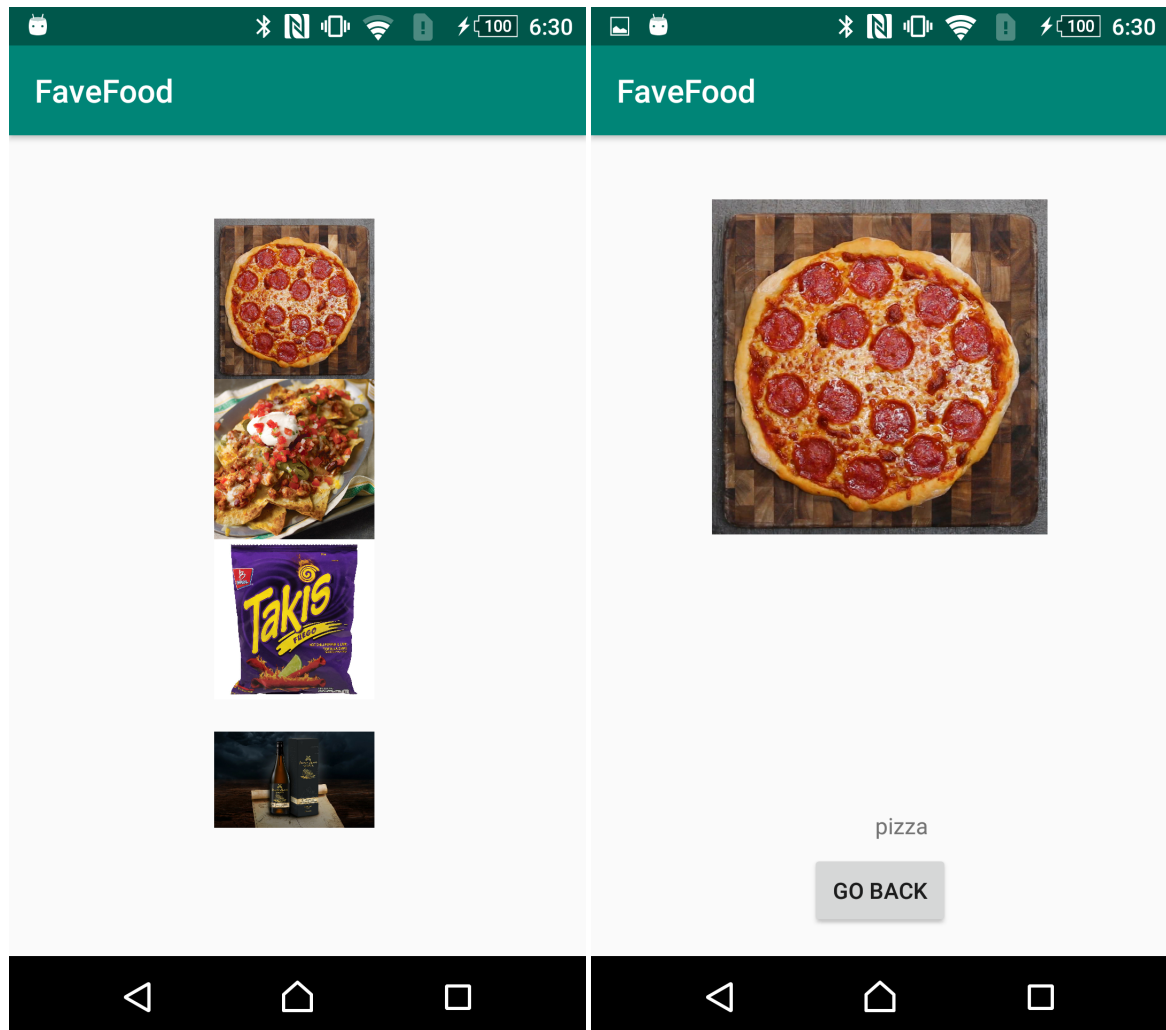
Figure 4: The application in action

**Task 2**