



Trường Đại học Bách Khoa Hà Nội  
Hanoi University of Science and Technology

# Chapter 4. Graphical User Interfaces

Hanoi University of Science and Technology

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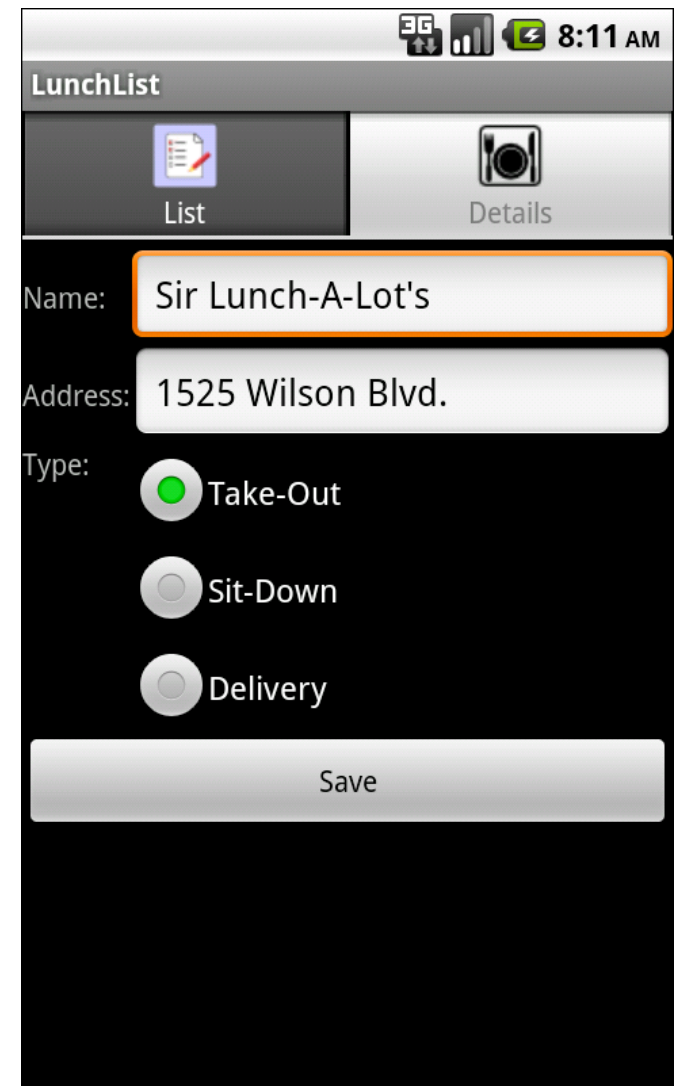
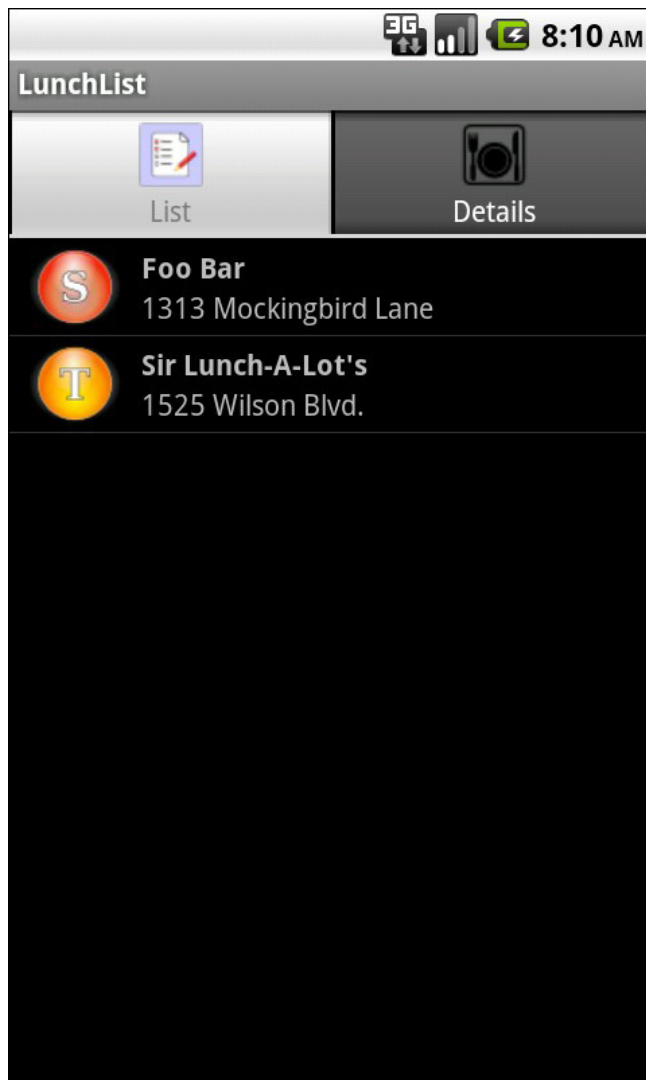
# Content

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- 4.3. Advanced Adapter
  - ListView Widget/ ArrayList
  - Custom Adapter
  - TabHost
  - WebKit

***TUTORIAL 6. Splitting the Tab***

# TUTORIAL 6. Splitting the Tab



# Step #1: Rework the Layout

TabHost

TabWidget

FrameLayout

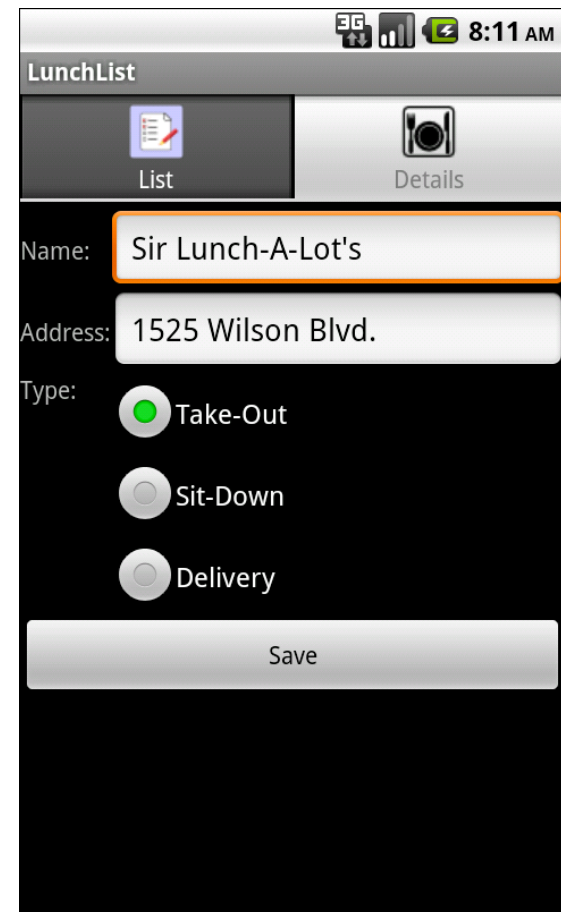
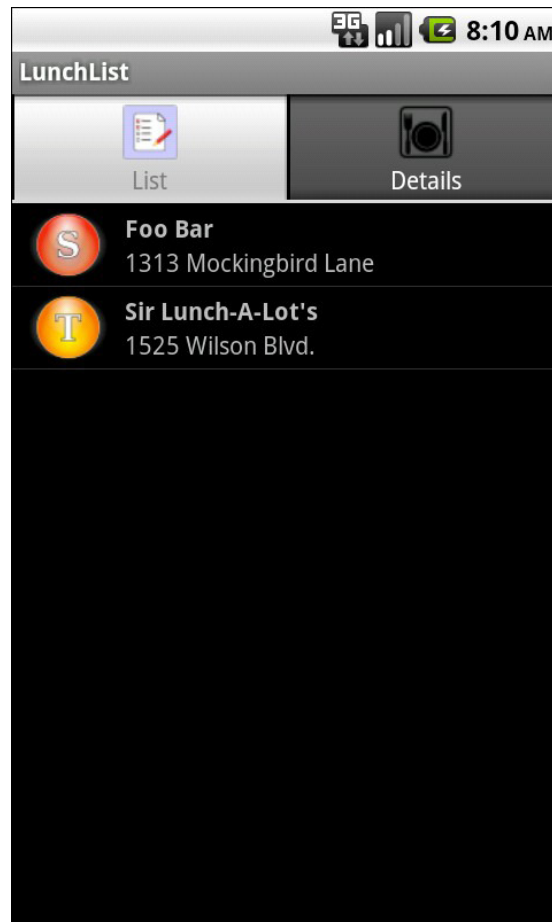
ListView

TableLayout

TableRow

TableRow

TableRow





## Step #2: Wire In the Tabs

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TabHost.TabSpec

```
spec=getTabHost().newTabSpec("tag1");
```

```
spec.setContent(R.id.restaurants); layout
```

```
spec.setIndicator("List", getResources()  
    .getDrawable(R.drawable.list)); icon
```

```
getTabHost().addTab(spec);
```



# Update in code for each tab

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```
spec=getTabHost().newTabSpec("tag2");
```

```
spec.setContent(R.id.details);
```

```
spec.setIndicator("Details", getResources()  
    .getDrawable(R.drawable.restaurant));
```

```
getTabHost().addTab(spec);
```

```
getTabHost().setCurrentTab(0);
```

# Step #3: Get Control On List Events



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- Detect when the user clicks on one of our restaurants in the list, so we can update our detail form with that information.
  - Implements `AdapterView.OnItemClickListener`
  - Connect the `ListView` to the `onListClick` listener object

# Implements

## AdapterView.OnItemClickListener

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- Implements AdapterView.OnItemClickListener

```
private AdapterView.OnItemClickListener onListClick=new  
    AdapterView.OnItemClickListener() {  
        public void onItemClick(AdapterView<?> parent,  
            View view, int position,  
            long id) {  
        }  
    };
```

- Connect the ListView to the onListClick listener object  
list.setOnItemClickListener(onListClick);





# Step #4: Update Our Restaurant Form On Clicks

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- Move the name, address, and types variables into data members and populate them in the activity's onCreate():
  - EditText name=null;
  - EditText address=null;
  - RadioGroup types=null;
- in onCreate() like:
  - name=(EditText)**findViewById(R.id.name);**
  - address=(EditText)**findViewById(R.id.addr);**
  - types=(RadioGroup)**findViewById(R.id.types);**



# Update the details form in onListClick

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```
Restaurant r=model.get(position);  
    // position: index into our ArrayList of restaurants  
name.setText(r.getName());  
address.setText(r.getAddress());  
if (r.getType().equals("sit_down")) {  
    types.check(R.id.sit_down);  
}  
else if (r.getType().equals("take_out")) {  
    types.check(R.id.take_out);  
}  
else {  
    types.check(R.id.delivery);  
}
```



## Step #5: Switch Tabs On Clicks

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- Switch to the detail form when the user clicks a restaurant in the list
- **`getTabHost().setCurrentTab(1);`**
- This just changes the current tab to the one known as index 1, which is the second tab (tabs start counting at 0).



# TabHost deprecated

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- Using ViewPager
- Try making a version of the activity that uses a ViewFlipper and a Button to flip from the list to the detail form, rather than using two tabs.



# Exercises

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- Add a date in the restaurant model to note the last time you visited the restaurant, then use either DatePicker or DatePickerDialog to allow users to set the date when they create their restaurant objects.



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