



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

Chapter 4. Graphical User Interfaces

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TUTORIAL 7. Menus and Messages

TUTORIAL 7. Menus and Messages



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Step #1: Add Notes to the Restaurant - class Restaurant

```
private String notes="";  
public String getNotes() {  
    return(notes);  
}  
public void setNotes(String  
notes) {  
    this.notes=notes;  
}
```

The screenshot shows an Android application window titled "LunchList". At the top right, there are status icons for 3G, signal strength, battery, and the time 8:12 AM. Below the title bar, there are two tabs: "List" (with a document icon) and "Details" (with a camera icon). The "Details" tab is active. The form contains the following fields:

- Name:** A text field containing "Foo Bar".
- Address:** A text field containing "1313 Mockingbird Lane".
- Type:** Three radio buttons labeled "Take-Out", "Sit-Down", and "Delivery". The "Sit-Down" button is selected, indicated by a green dot.
- Notes:** A text area containing "The food is excellent but the wait staff is a bit strange...".
- Save:** A large button at the bottom of the form.

Step #2: Add Notes to the Detail Form

- add the following TableRow above the Save button in our TableLayout in LunchList/res/layout/main.xml:

```
<TableRow>
    <TextView android:text="Notes:" />
    <EditText
        android:id="@+id/notes"
        android:lines="2"
        android:scrollHorizontally="false" />
</TableRow>
```

The screenshot shows the 'LunchList' app interface. At the top, there's a status bar with '3G', signal strength, battery, and time '8:12 AM'. Below the title bar, there are two tabs: 'List' (with a document icon) and 'Details' (with a camera icon). The 'Details' tab is active. The form contains the following fields: 'Name:' with the value 'Foo Bar'; 'Address:' with the value '1313 Mockingbird Lane'; 'Type:' with three radio buttons: 'Take-Out' (unselected), 'Sit-Down' (selected, indicated by a green dot), and 'Delivery' (unselected). Below these is a 'Notes:' label followed by a text input field containing the text 'The food is excellent but the wait staff is a bit strange...'. At the bottom of the form is a 'Save' button.

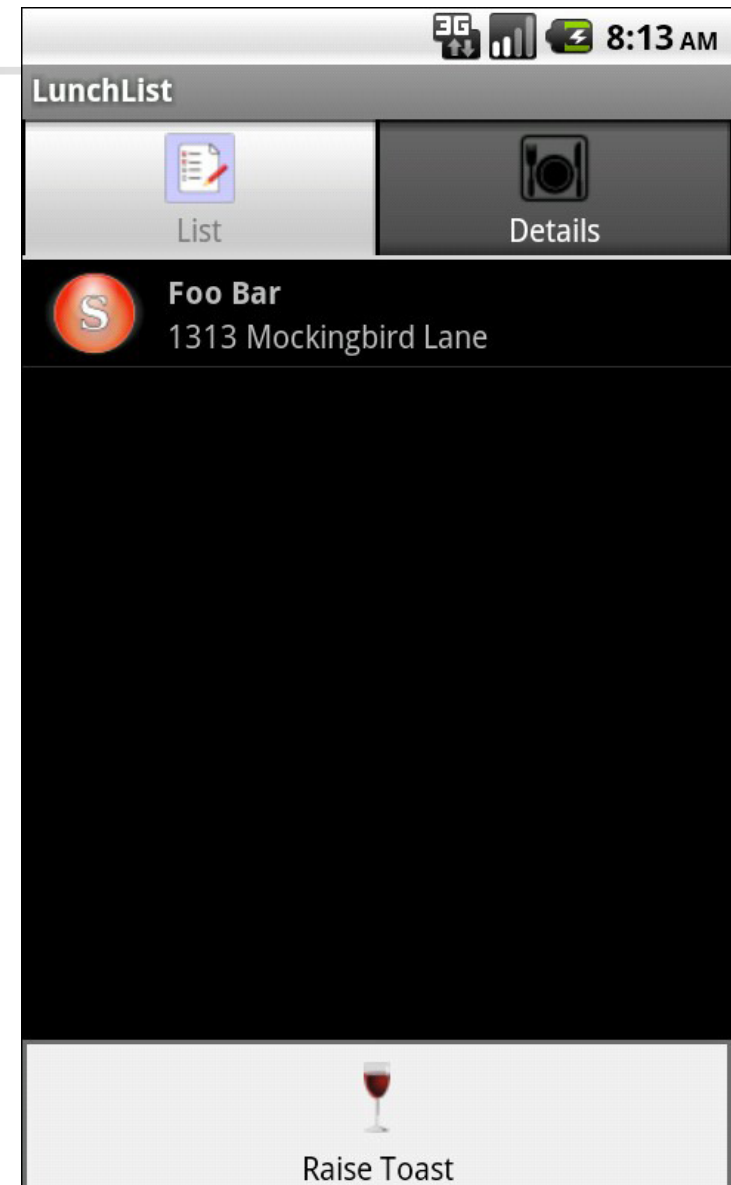
Modify the LunchList activity itself



- 1. Adding another data member for the notes EditText widget defined above
- 2. Find our notes EditText widget as part of onCreate(), like we do with other EditText widgets
- 3. Save our notes to our restaurant in onSave
- 4. Restore our notes to the EditText in onListClick

Step #3: Define the Option Menu - option.xml

```
<menu >
  <item
    android:id="@+id/toast"
    android:title="Raise Toast"
    android:icon="@drawable/toast"
  />
</menu>
```



Add the following method to LunchList



@Override

public boolean **onCreateOptionsMenu(Menu menu)**

{

new **MenuInflater(this).inflate(R.menu.option,**
menu);

return(super.**onCreateOptionsMenu(menu);**

}

- Click the [MENU] button, to see the options menu with its icon



Step #4: Show the Notes as a Toast

- Get control when the user selects the Raise Toast menu choice and display the notes in a Toast:
 - need to know what restaurant to show

Step #4: Show the Notes as a Toast

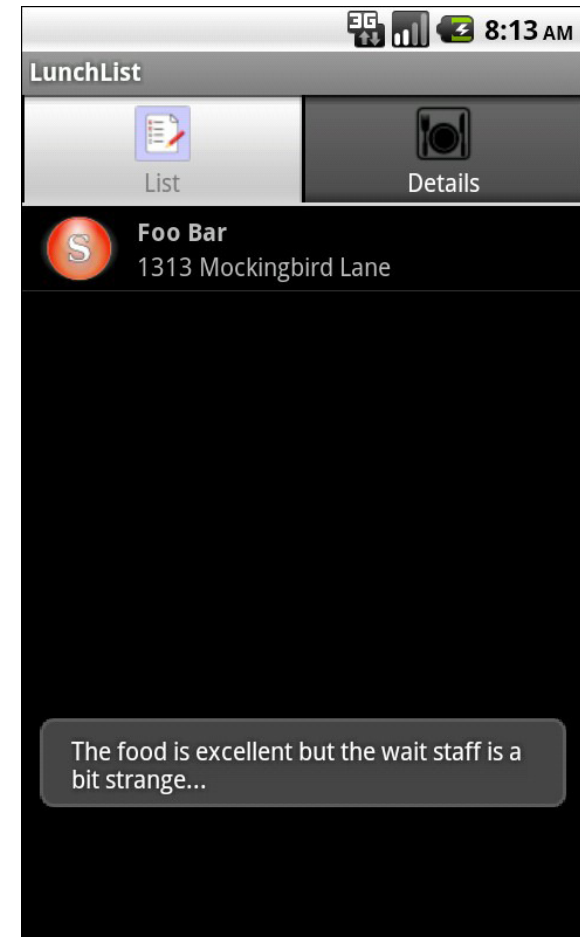


- 1. Add another data member, `restaurant current`, to hold the current restaurant. Be sure to initialize it to null.
- 2. In `onSave` and `onListClick`, rather than declaring local restaurant variables, use `current` to hold the restaurant we are saving (in all references to the old `r` variable to be `current` in these two objects).
- 3. Add imports for `android.view.MenuItem` and `android.widget.Toast`.

Implementation of onOptionsItemSelected() to LunchList class

@Override

```
public boolean onOptionsItemSelected(MenuItem item) {  
    if (item.getItemId() == R.id.toast) {  
        String message = "No restaurant selected";  
        if (current != null) {  
            message = current.getNotes();  
        }  
        Toast.makeText(this, message,  
            Toast.LENGTH_LONG).show();  
        return(true);  
    }  
    return(super.onOptionsItemSelected(item));  
}
```





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End of Lecture

Q&A