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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- 4.4. Menu and Adapters
  - Applying Menus
  - Showing Pop-Up Messages

TUTORIAL 7. Menus and Messages

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- Step #1: Add Notes to the Restaurant
- Step #2: Add Notes to the Detail Form
- Step #3: Define the Option Menu
- Step #4: Show the Notes as a Toast

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

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

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>
```

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>
```
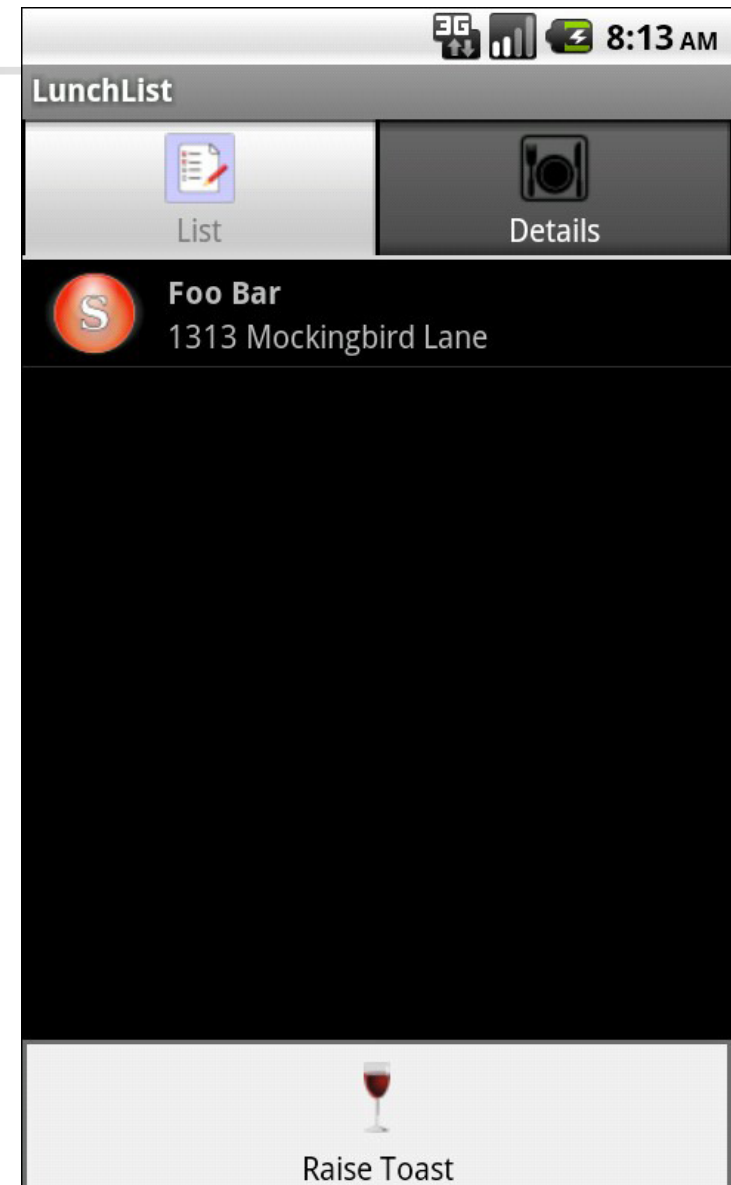
Add the following method to LunchList

```
@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));
}
```
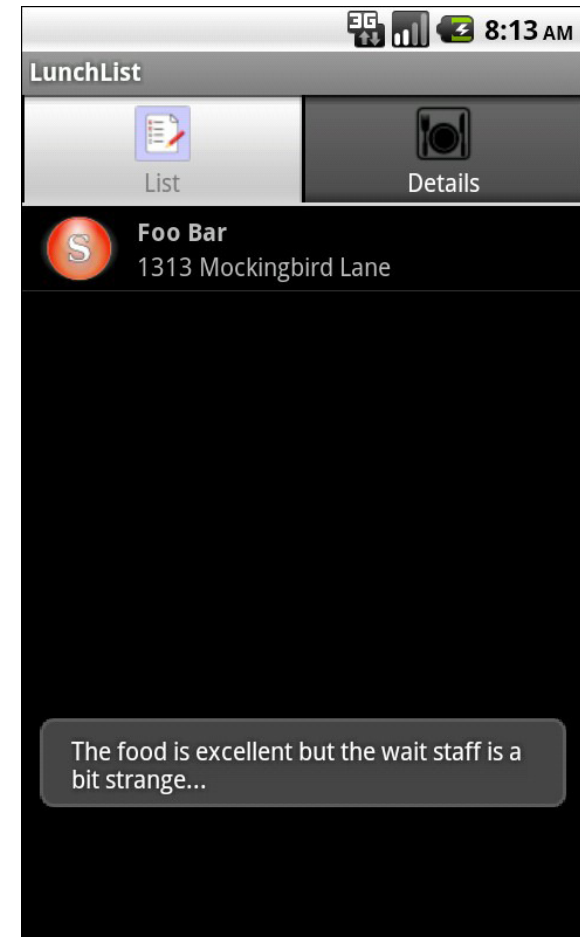
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End of Lecture

Q&A