Point 1: Table declaration

```
@Override
public void onCreate(SQLiteDatabase db) {

    String ToDoTable = "CREATE TABLE IF NOT EXISTS " + Constants.ToDo_Table + " ("
            + Constants.ToDo_ID + " INTEGER PRIMARY KEY AUTOINCREMENT, "
            + Constants.ToDo_Name + " TEXT, "
            + Constants.ToDo_Description + " TEXT, "
            + Constants.ToDo_DATE + " TEXT, "
            + Constants.ToDo_Status + " INTEGER) ";

    db.execSQL(ToDoTable);

}
```

Point 2 : Extending of AppCompactActivity

```
import ...

public class MainActivity extends AppCompatActivity
        implements  AdapterView.OnItemClickListener ,
        AdapterView.OnItemLongClickListener,
        todoDiaglog.todoDiaglogListner {
    //NavigationView.OnNavigationItemSelectedListener ,
```
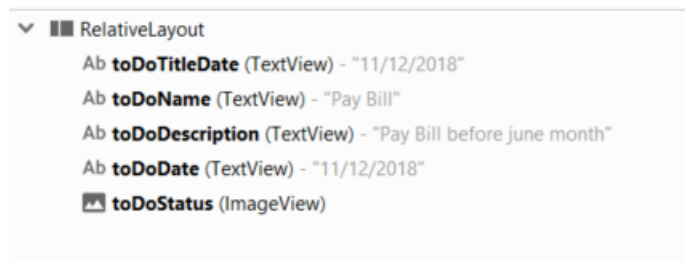
Point 3 : ListView

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".ListActivity" >

    <ListView
        android:id="@+id/todo_List"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" >
    </ListView>

</LinearLayout>
```
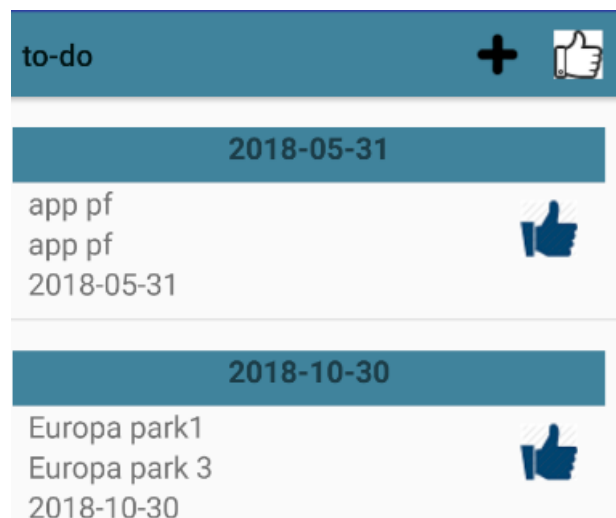
Point 4 : List item with Textviews and imageview

```
∨ ▮▮ RelativeLayout
      Ab toDoTitleDate (TextView) - "11/12/2018"
      Ab toDoName (TextView) - "Pay Bill"
      Ab toDoDescription (TextView) - "Pay Bill before june month"
      Ab toDoDate (TextView) - "11/12/2018"
      🖼 toDoStatus (ImageView)
```

Point 5 : Sorting of List

```
// Select Todo query
String query;
if(blnTaskComplete) {
    query = "SELECT ToDoID,  ToDoName , ToDoDescription , date(ToDoDate), ToDoStatus FROM " + Constants.ToDo_Table + " WHERE ToDoStatus = 1 ORDER BY " + Constants.ToDo_DATE + " ASC ";
}
else{
    query = "SELECT ToDoID,  ToDoName , ToDoDescription , date(ToDoDate), ToDoStatus FROM " + Constants.ToDo_Table + " WHERE ToDoStatus = 0 ORDER BY " + Constants.ToDo_DATE + " ASC ";
}
```

Point 6 : Two MenuBars for Add and Switch between Completed List and incomplete tasks.

Same button icon toggles and you can switch between complete list and incomplete list.
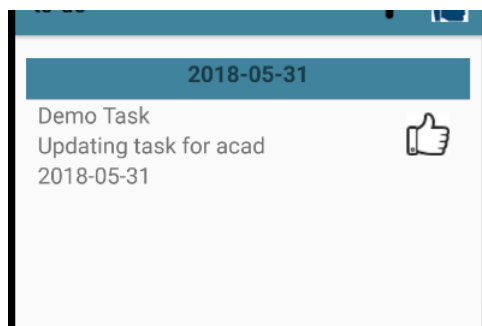
Point 7 : Add New Task
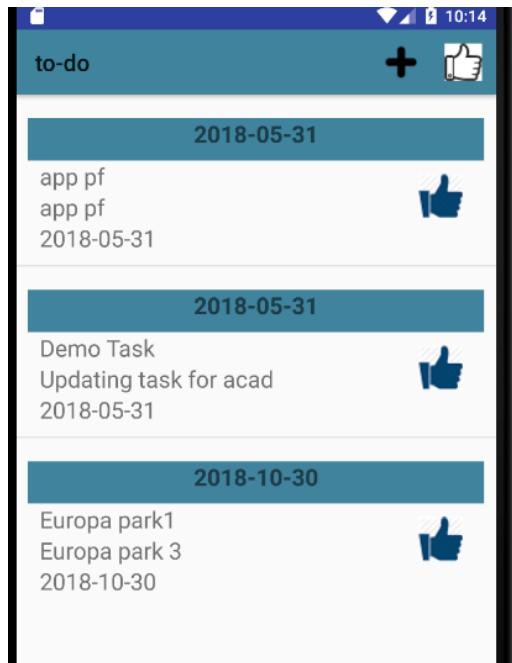
Point 8 : Screen After insertion of task
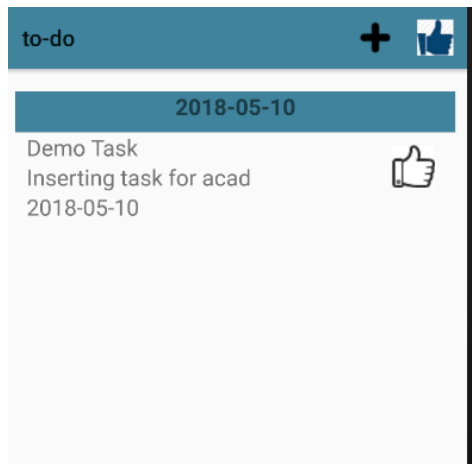
Point 9 : On clicking of item you will get dialog to modify data.
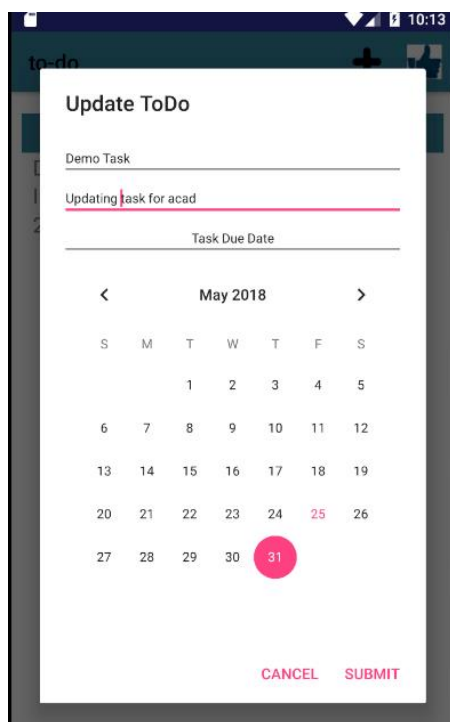
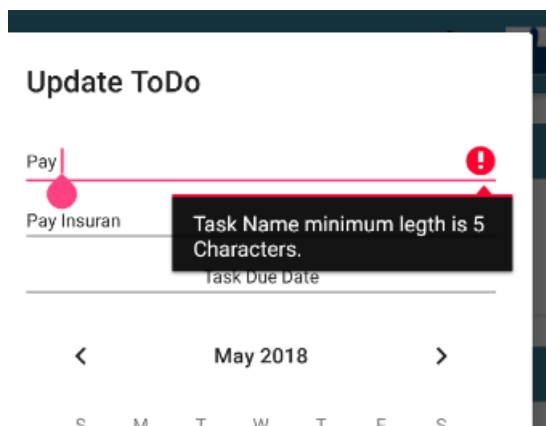Point 10 : Press Submit after modification

Point 11 : Long Click on incomplete task and task status is changed to complete task. Press Complete task icon to see complete tasks in list view and the icon of button switched to icon incomplete picture.

Point 12 : long click on complete task it deletes task from list.
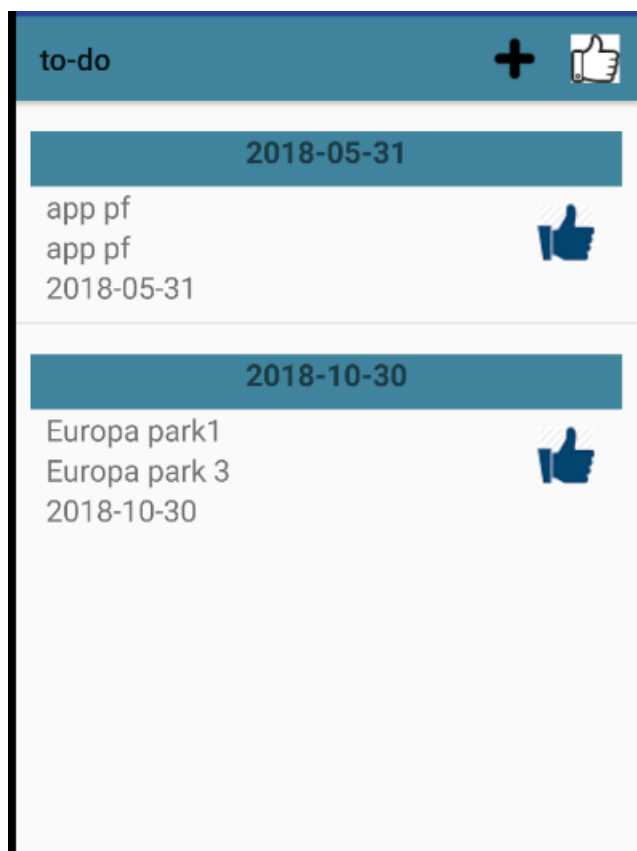
Point 13: Simple error handler


```java
editToDoName = view.findViewById(R.id.toDoAddName);
editToDoName.setOnFocusChangeListener(new View.OnFocusChangeListener(){

    @Override
    public void onFocusChange(View v, boolean hasFocus) {
        if(editToDoName.getText().length()<5){
            editToDoName.setError("Task Name minimum legth is 5 Characters.");
        }
    }
});

editTodoDescription = view.findViewById(R.id.toDoAddDescription);
editTodoDescription.setOnFocusChangeListener(new View.OnFocusChangeListener(){

    @Override
    public void onFocusChange(View v, boolean hasFocus) {
        if(editTodoDescription.getText().length()<5){
            editTodoDescription.setError("Task Description minimum legth is 5 Characters.");
        }
    }
});
```