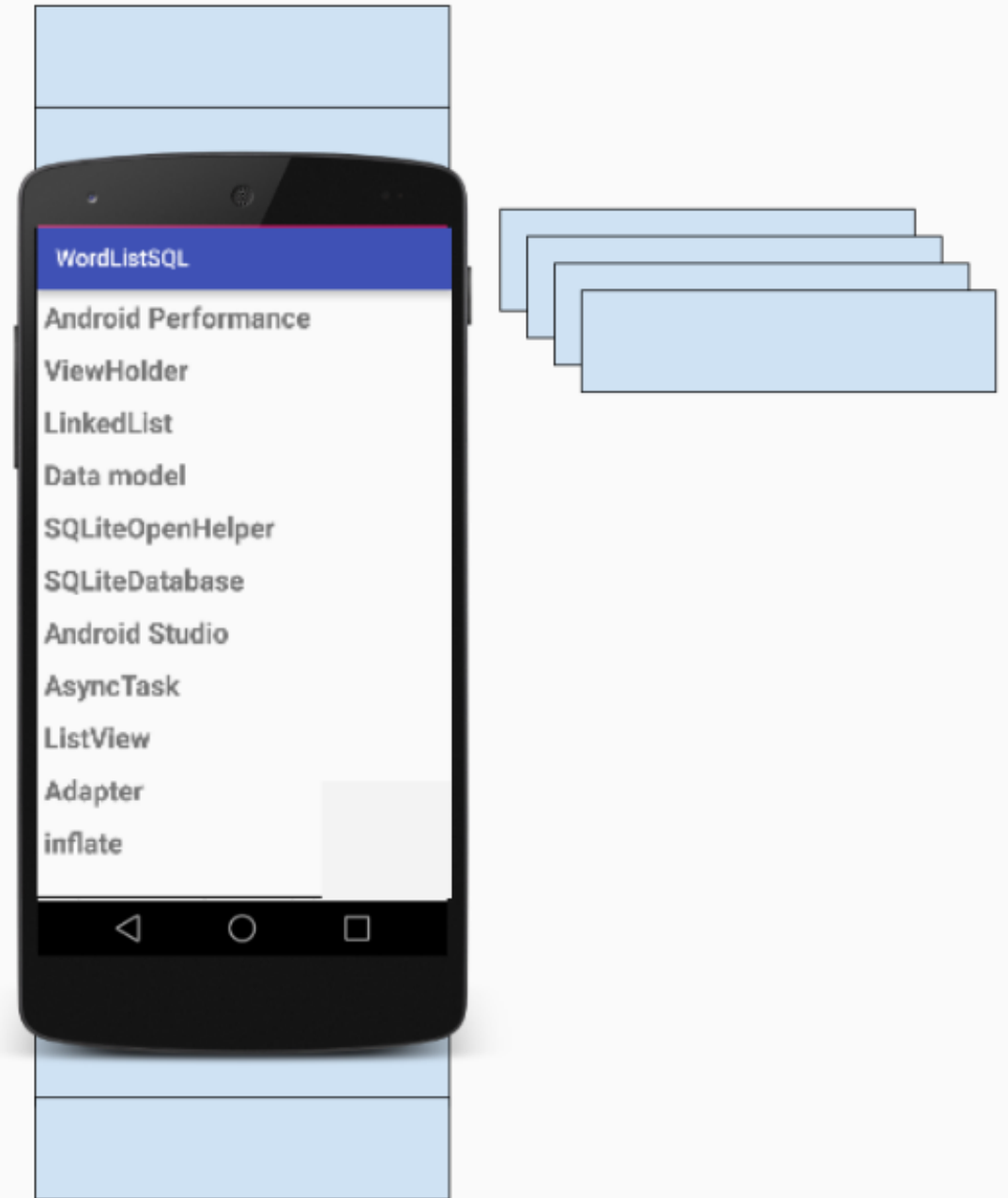


RecyclerView

Fonctionnement

Conteneur scrollable pour afficher une grande quantité de donnée de façon efficace:

- crée un nombre limité de Views
- les réutilise en remplaçant les données et les listeners (re-bind) sans les recréer
- Met à jour les données rapidement



List layout

```
<android.support.v7.widget.RecyclerView  
    android:id="@+id/recyclerview"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    app:layoutManager="android.support.v7.widget.LinearLayoutManager" />
```

Item layout

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <TextView
        android:id="@+id/word"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />
</LinearLayout>
```

Adapter

```
class WordListAdapter(val wordList: Word) : RecyclerView.Adapter<WordListAdapter.WordViewHolder>() {
    override fun getItemCount(): Int {
        // return the number of elements in the list
    }

    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): WordViewHolder {
        // inflate a view to create a ViewHolder instance
    }

    override fun onBindViewHolder(holder: WordViewHolder, position: Int) {
        // bind() the list element at the current position to the holder
    }

    inner class WordViewHolder(itemView: View) : RecyclerView.ViewHolder(itemView) {
        fun bind(word: Word) {
            // Fill a cell with data
        }
    }
}

// at fragment or activity creation:
val wordList = listOf("word#1", "word #2")
recyclerView.adapter = WordListAdapter(wordList)
recyclerView.layoutManager = LinearLayoutManager(context)
```

ListAdapter

```
object WordsDiffCallback : DiffUtil.ItemCallback<ChannelUiModel>() {
    override fun areItemsTheSame(oldItem: ChannelUiModel, newItem: ChannelUiModel) =
        // are they the same "entity" ? (usually same id)
    override fun areContentsTheSame(oldItem: ChannelUiModel, newItem: ChannelUiModel) =
        // do they have the same data ? (content)
}

class WordListAdapter : ListAdapter<, Word, WordListAdapter.WordViewHolder>(WordsDiffCallback) {
    // same thing without getItemCount()
}

// at fragment or activity creation:
val myAdapter = WordListAdapter()
recyclerView.adapter = myAdapter
myAdapter.submitList(listOf("word#1", "word #2"))
```