Implementing RecyclerView

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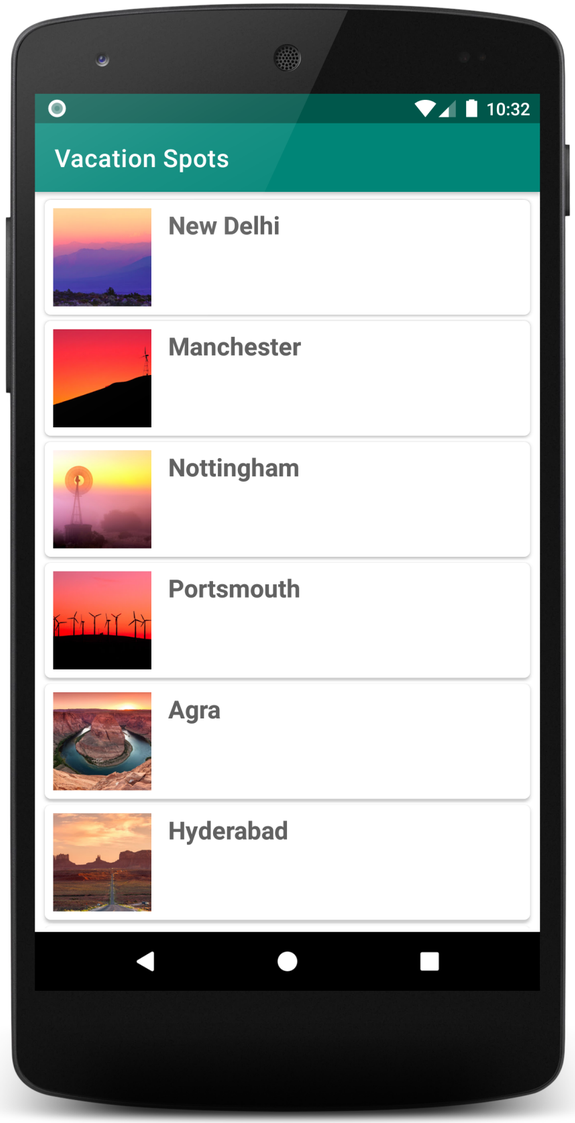
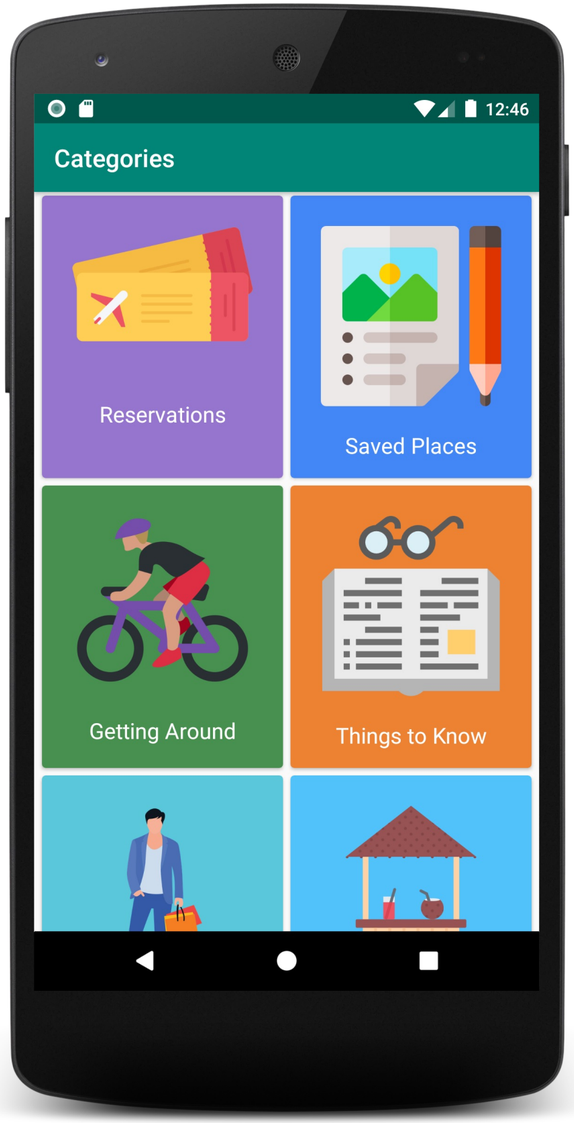
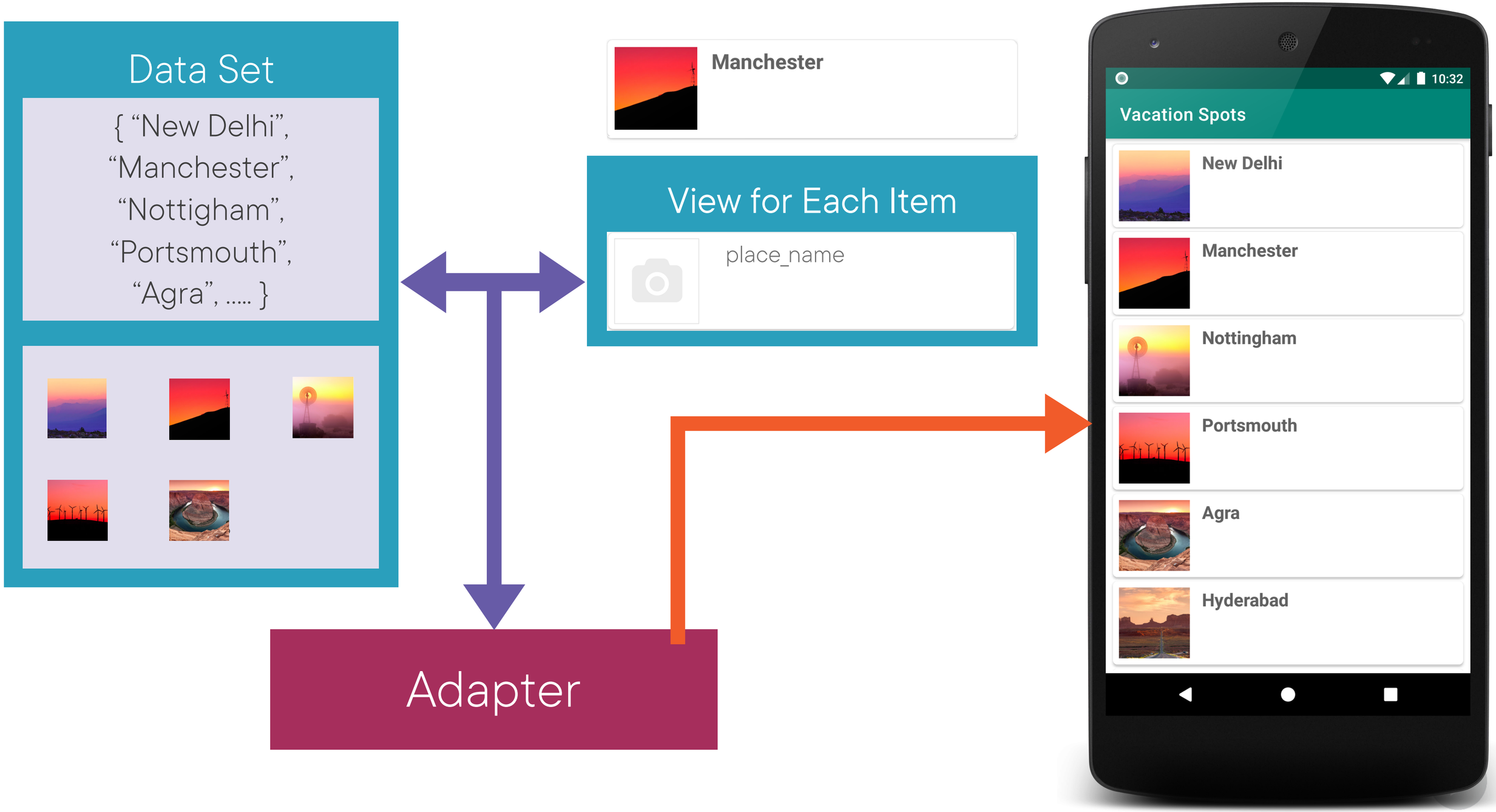
Implementing RecyclerView

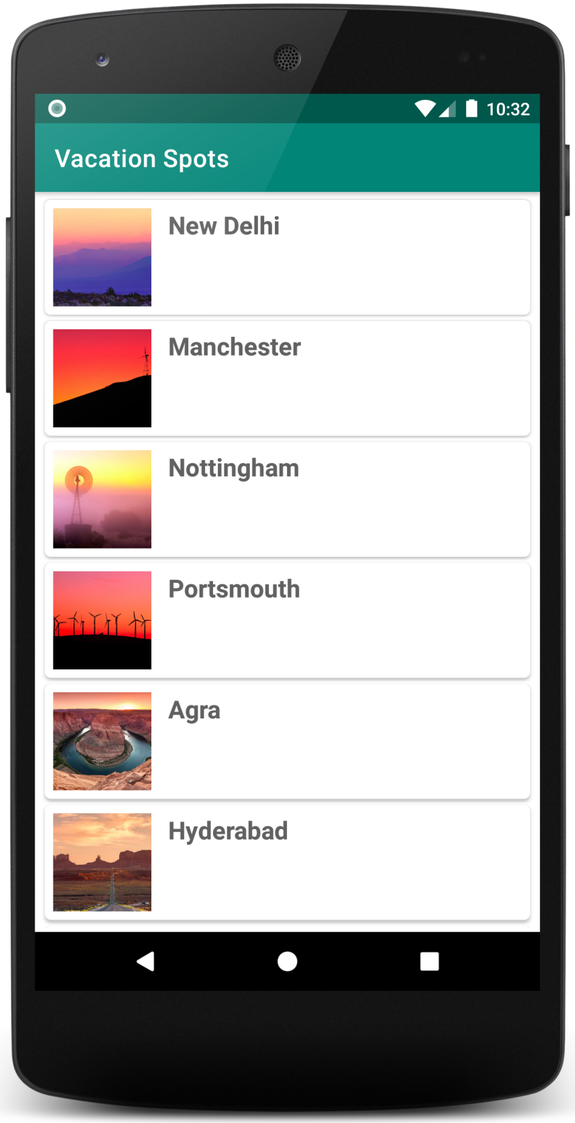


Adapter



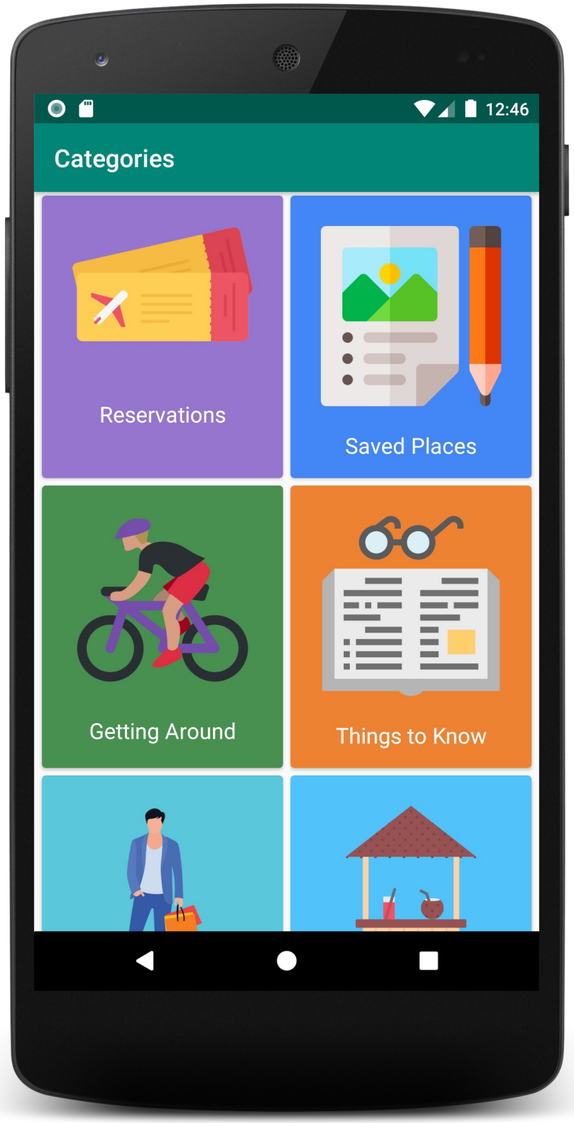

Data Set
{ “New Delhi”,
“Manchester”,
“Nottigham”,
“Portsmouth”,
“Agra”, ... }
Manchester
View for Each Item
place_name
Adapter
10:32
Vacation Spots
New Delhi
Manchester
Nottingham
Portsmouth
Agra
Hyderabad

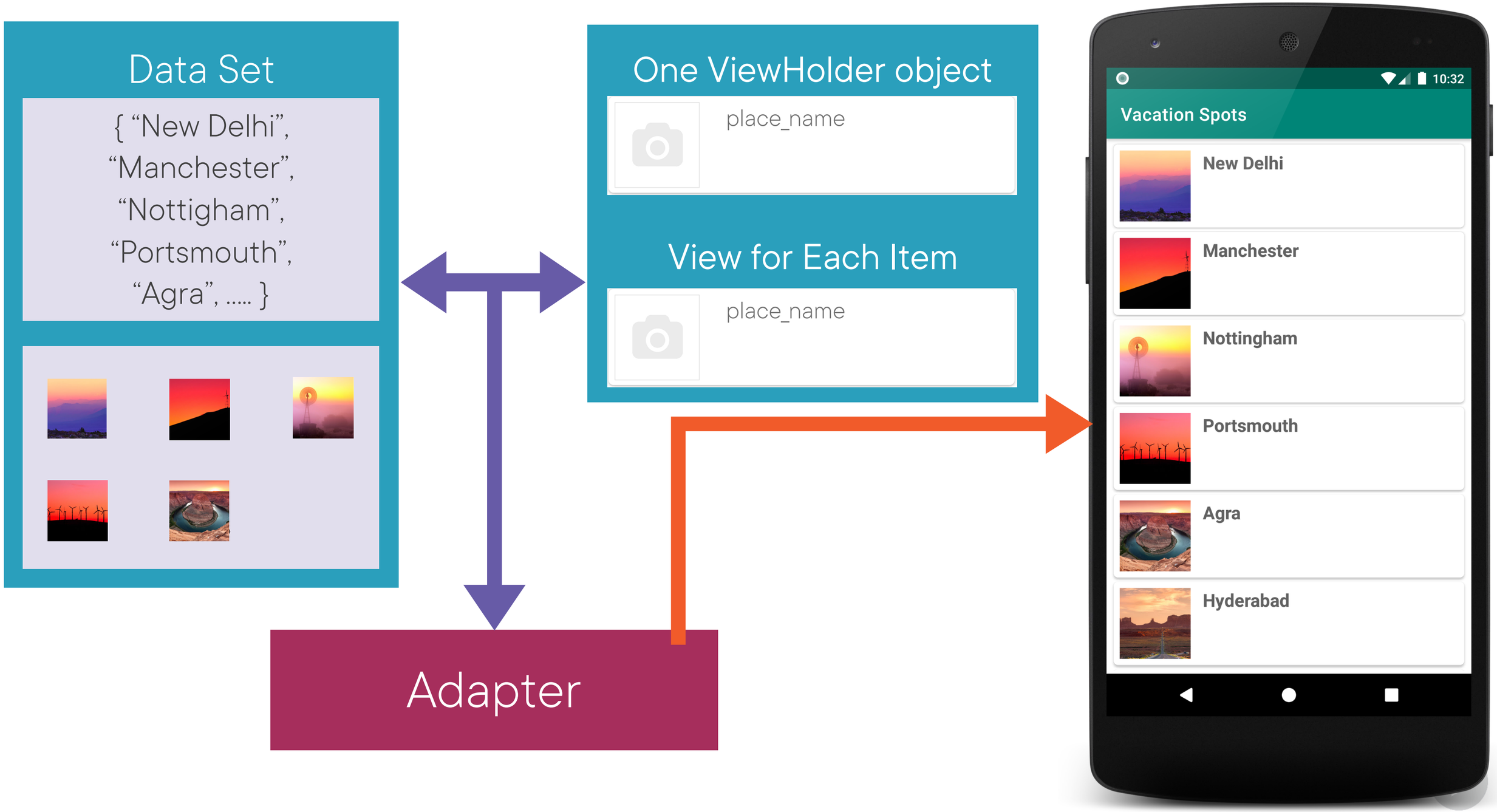
Implementing RecyclerView

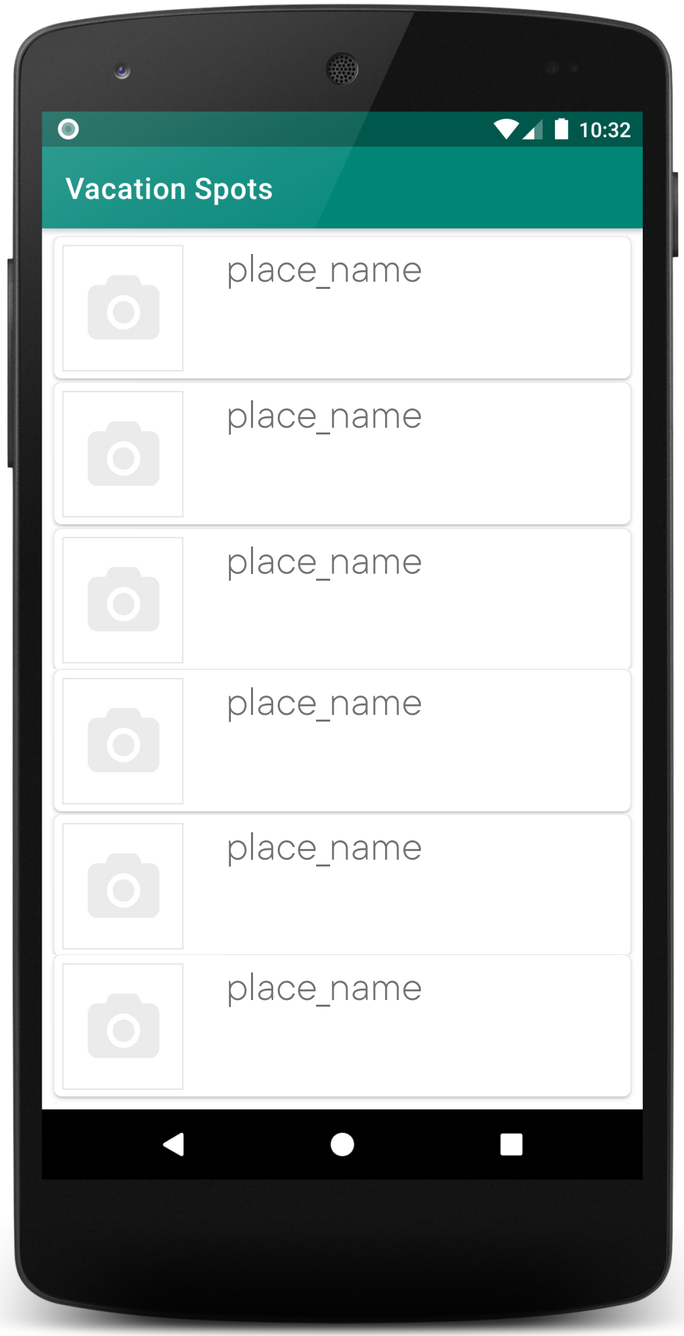


Adapter

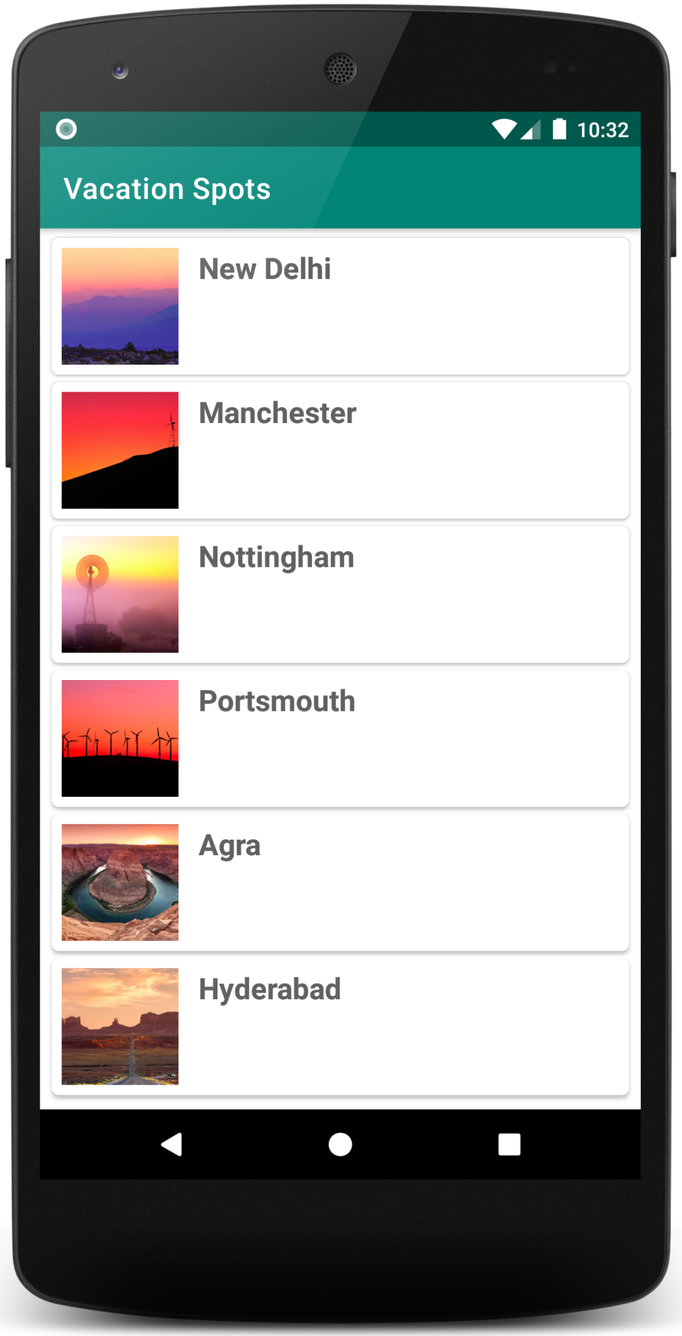
ViewHolder Design Pattern



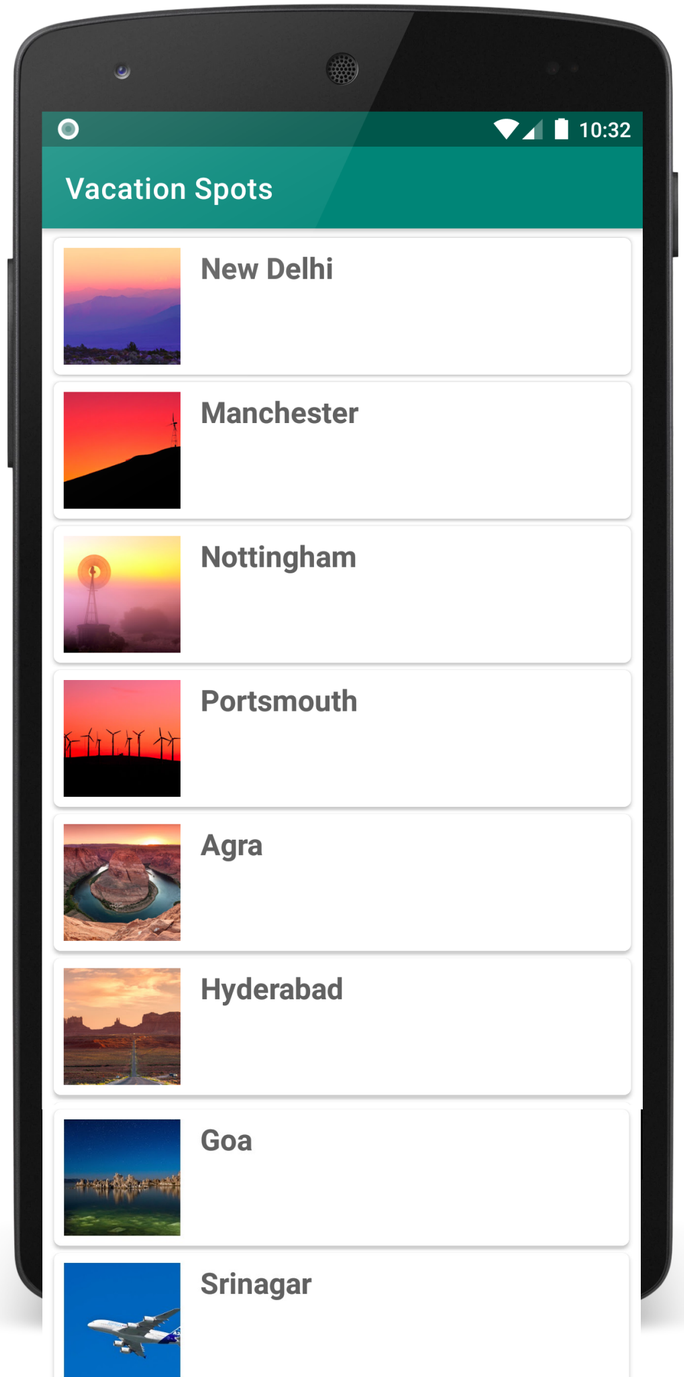

Data Set
{ “New Delhi”,
“Manchester”,
“Nottigham”,
“Portsmouth”,
“Agra”, ... }
One ViewHolder object
place_name
View for Each Item
place_name
Adapter
10:32
Vacation Spots
New Delhi
Manchester
Nottingham
Portsmouth
Agra
Hyderabad


10:32
Vacation Spots
place_name
place_name
place_name
place_name
place_name
place_name

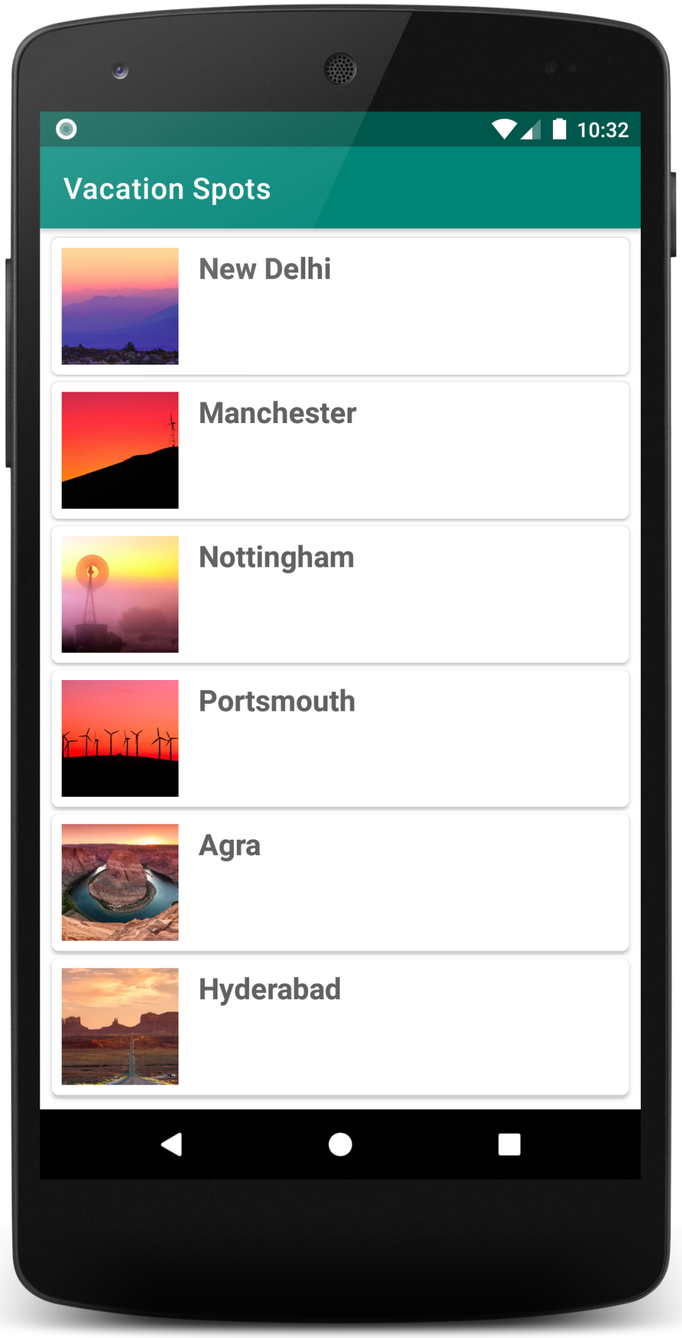
6 Items



6 Items * 1 MB = 6 MB



1000 Items * 1 MB = 1000 MB

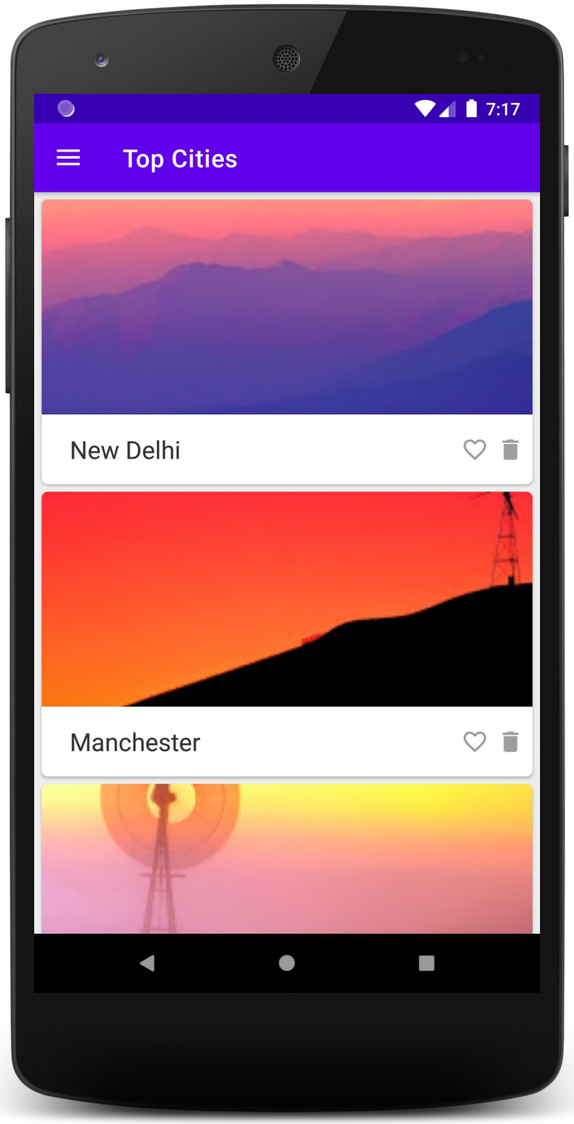


ViewHolder Design Pattern

Recycles the View objects (ViewHolder objects)

RecyclerView

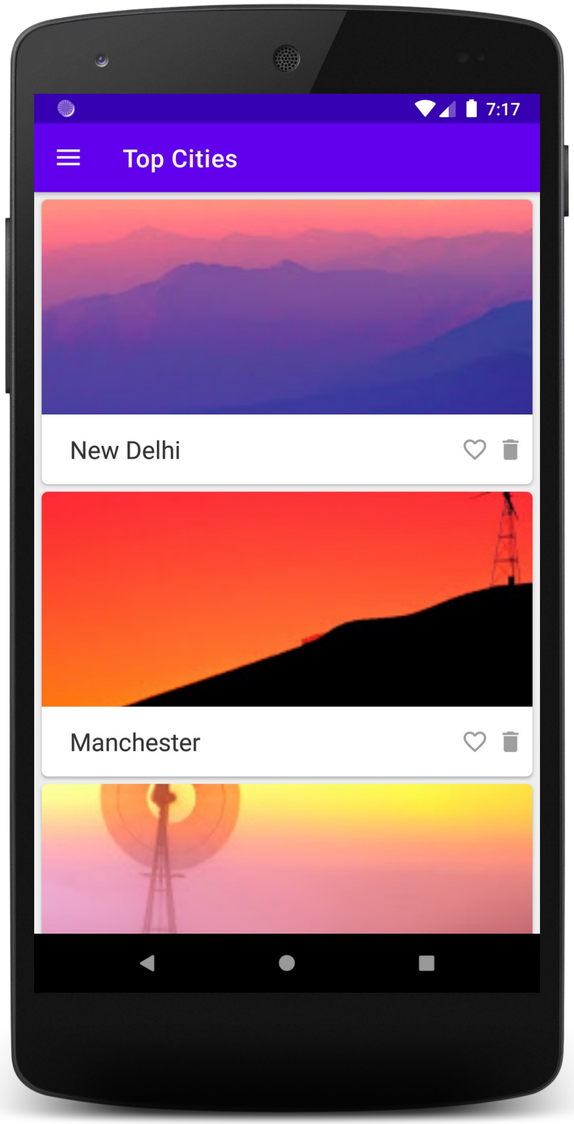
Implementing RecyclerView



STEP 1: Prepare data set

- Create data class
  - Image
  - City name
  - isFavorite flag

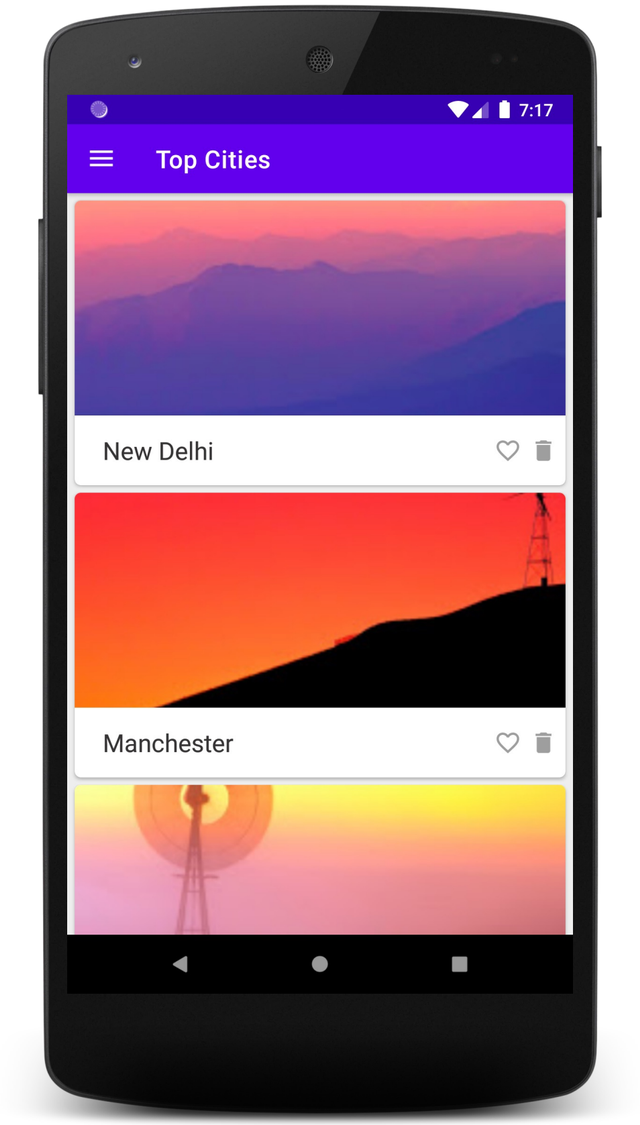
Implementing RecyclerView



STEP 2: Add Layout Resources

- Add RecyclerView
  - fragment_city_list.xml
- Add layout for each ViewHolder items
  - list_item_city.xml

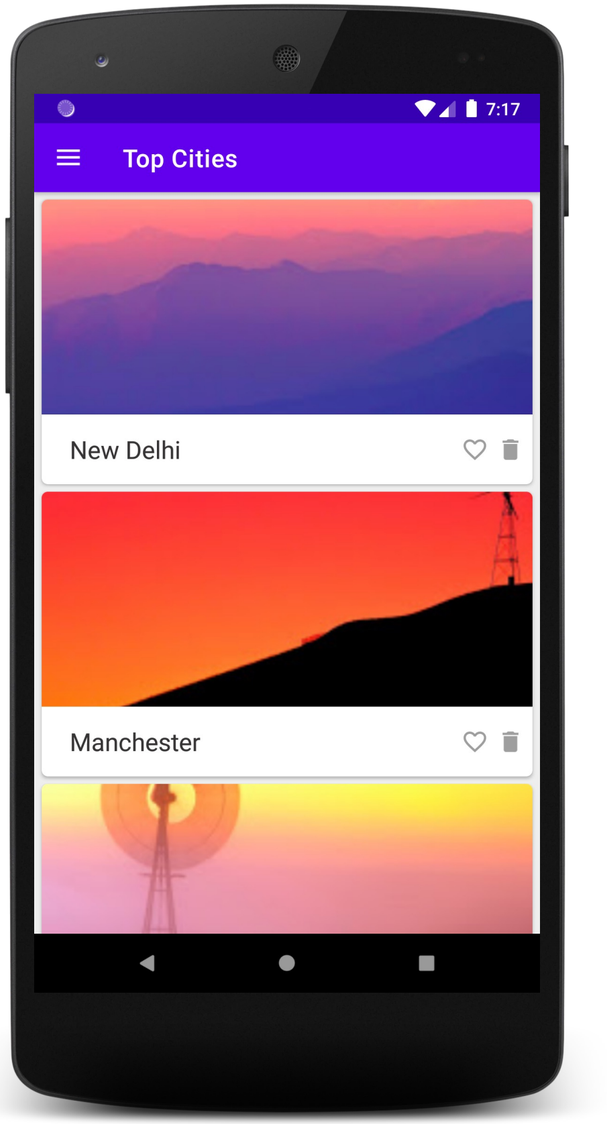
Implementing RecyclerView



STEP 3: Create Adapter

- CityAdapter : RecyclerView.Adapter<CityViewHolder>
  - CityViewHolder : RecyclerView.ViewHolder

Implementing RecyclerView

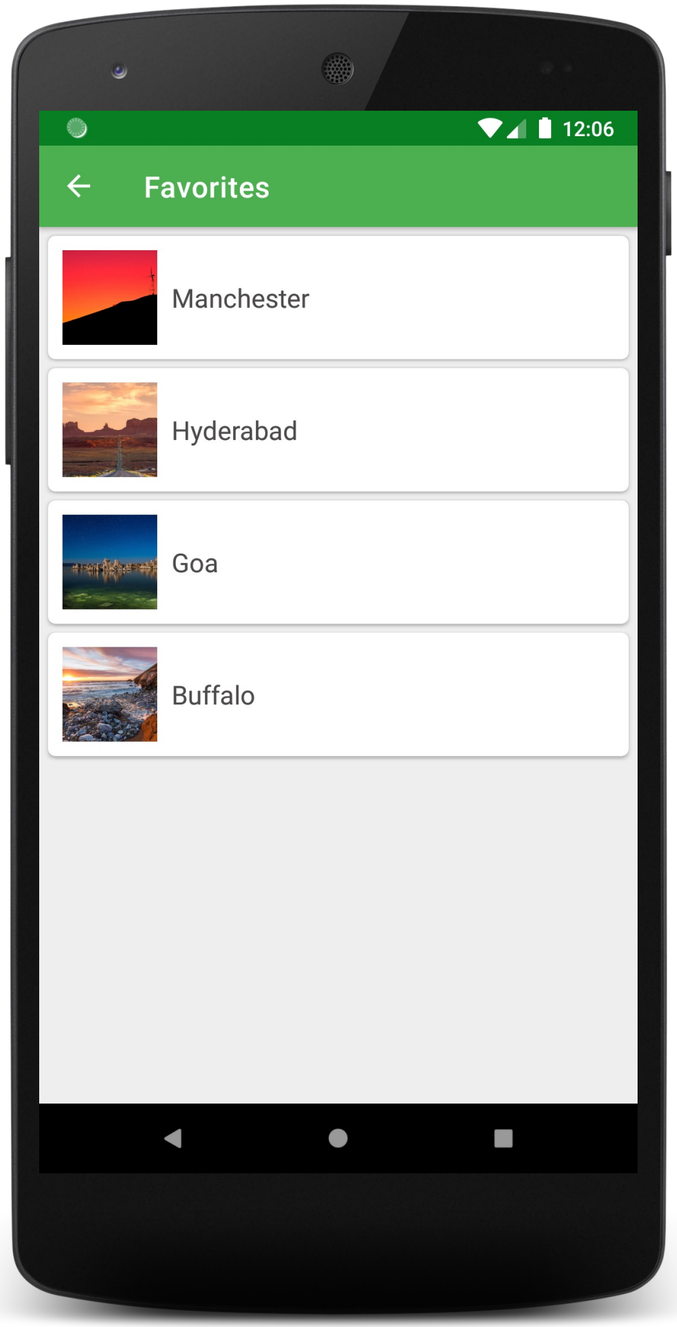


STEP 4: Link RecyclerView with Adapter

- Use LinearLayoutManager

Inspecting Adapter Behavior

Exercise: Do It Yourself



Exercise

STEP 1

STEP 2

STEP 3

STEP 4

Up Next:
Working with Items in RecyclerView