Project 4 Task 2- My Hotel App

Description: My application takes a search string from the user, and uses it to get hotel information from the api.

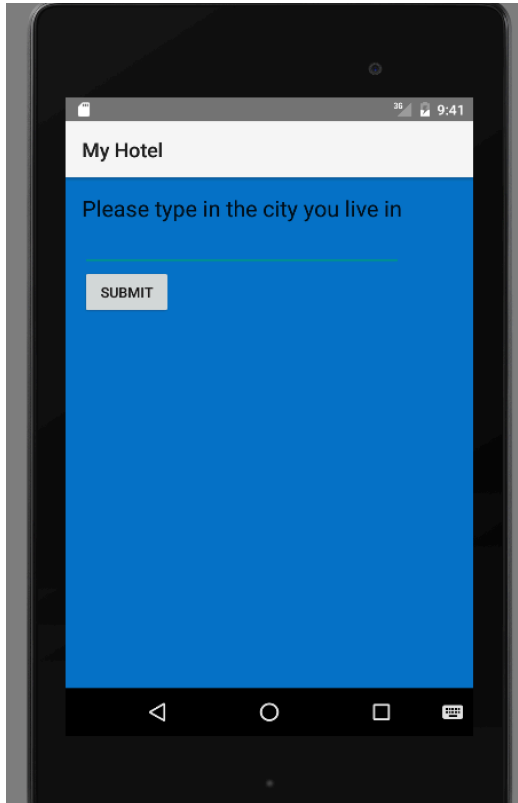Here is how my application meets the task requirements

1. **Implement a native Android application**

    The name of native Android application name in Android Studio is: MyHotel

1.1 Has at least two different kinds of views in your Layout(TextView, EditText, ImageView, etc)
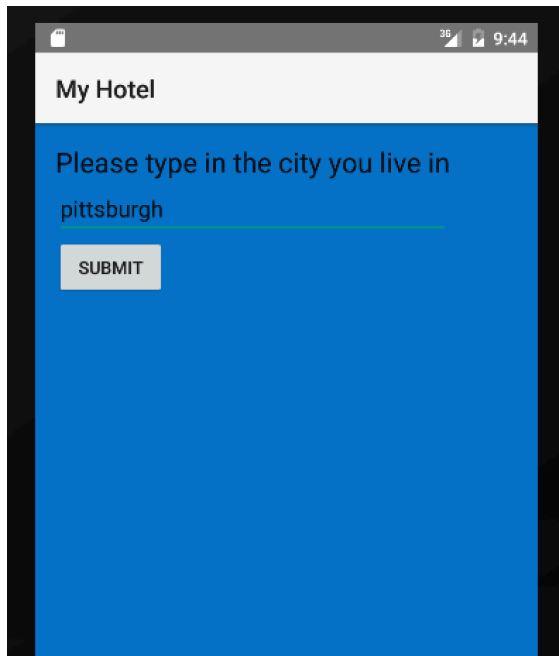
My application uses TextView, EditText, Button and ListView. See activity_main.xml for details of how they are incorporated into the RelativeLayout.

Here is a screenshot of the layout before the input has been typed.

1.2 Requires input from the user

Here is a screenshot of the user searching for the hotels in Pittsburgh:

1.3 Makes an HTTP request (using an appropriate HTTP method) to your web service

My application does an HTTP GET request in GetHotel.java. The HTTP request is: "**https://young-headland-3634.herokuapp.com/MyHotels/**"+ city where city is the user's search term.

The search method makes this request of my web application, parses the returned XML to get the result array, and send it to the acitivty method.
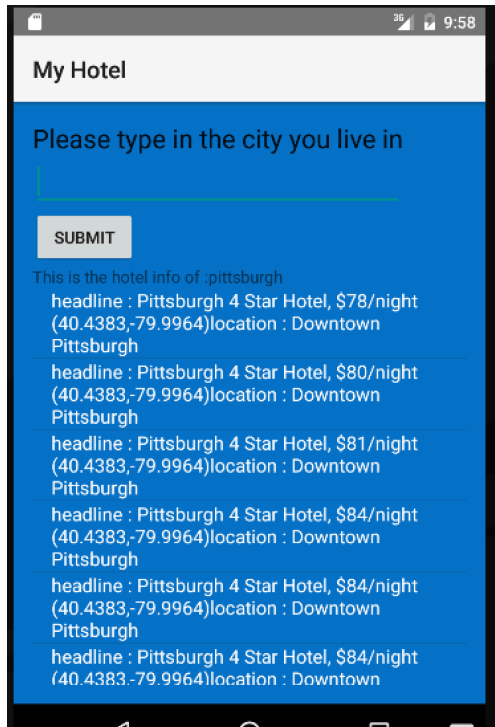
1.4 Receives and parses an XML or JSON formatted reply from the web service.

An example of the XML reply is:

<hotels>

<city>pittsburgh</city>

<hotel>headline:Pittsburgh 4 Star Hotel, $78/night   (40.4383,-79.9964)location   :
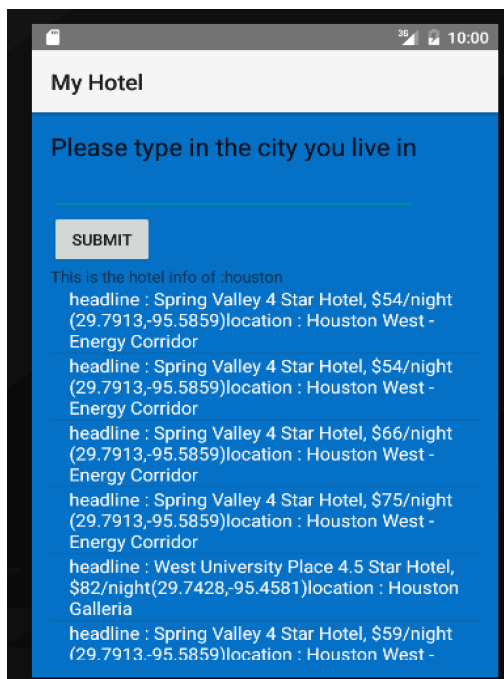
Downtown Pittsburgh</hotel>

</hotels>

1.5 Displays new information to the user

Here is the screen shot after the picture has been returned

1.6 Is repeatable (I.e. the user can repeatly reuse the application without restarting it.)

The user can type in another search term and hit submit. Here is an example of having typed in "Houston".

2. Implement a web application, deployed to Heroku

The name of the Heroku project in Netbeans is: MyHotelServer

2.1 Using an HttpServlet to implement a simple (can be a single path) API

In my web app project:

Model: HotelModel.java

Controller: HotelSearch.java

I do not have View in my server.

2.2 Receives an HTTP request from the native Android application

HotelSearch.java receives the HTTP GET request with the argument city. It passes the search string to the model.

2.3 Executes business logic appropriate to your application

HotelMode.java makes an HTTP request to:

"http://api.hotwire.com/v1/deal/hotel?dest="+name+

"&apikey="+hotelKey+"&limit=8"

It then parses the XML response and extracts the parts it needs to respond to the Android application

2.4 Replies to the Android application with an XML or JSON formatted response.

I use the PrintWriter object to response to the mobile application in a simple XML format:

<hotels>

<city>york</city><hotel>headline : Harrisburg 3 Star Hotel, $45/night location : Harrisburg(40.275616,-76.85244)</hotel>

</hotels>