**Design Choices**

I felt that SOA approach is needed, and I tried my best to separate components and used them accordingly for better performance, yet this app is quickly built, thus margin for improvements are quite big.

A user request will start from selecting the add option under options menu (2 screens first is with the list of defaults, the other screen is item information)

1. **LocalWeatherAsyncTask** - the component that binds the entire request.
2. **LocalWeatherService** – the engine that connects and gives us the result
   1. While in the background thread, the service will give us the appropriate json result
3. **LocalWeatherParser** – the parsing operation is being handled here.
   1. The asynctask now returns the DataElement to which the parser already completed.
4. **Model/Pojos/JsonElements** – used for object creation, database and ui values.
   1. DataElement
   2. CurrentWeatherElement
   3. RequestElement
   4. WeatherElement
5. **Database** – persistence of data received.
   1. CurrentWeather,ForecastDb are the ones mostly used
6. **UI** /**View**– I decided to make it- a list of cities for the first screen, selecting an item will give you a dialog to which you need to choose either to view or delete.
   1. Viewing the Local City – WeatherDetail will present everything fetched from the db or newly added one.
   2. Deleting – by selecting under the dialog.
   3. Adding – is set under options menu, once found the 2nd screen will show you its detail.
7. **3rd Party Library** – NONE.
8. **Considerations**
   1. Continue the pattern I want to apply generally I did not continue with the packages request and response will have those classes on a much general scale if done, instead of putting some of the request/response handling on the fly.
   2. For UI/UX, have them much more in-line with today’s design. Honestly I’m not good at customizing stuff.
   3. I think I am missing on defaults upon load of the app and also on how to refresh all of them after the load of the list.
   4. … I only slept 3-4hrs when I started doing this I felt from the time being the requirements were too much or maybe I just have a lot on my plate from the previous week, I never felt tight from both - I was doing a lot in the office, trainings, meetings and other personal stuff here at home. (This is for other things you might want to know ;-)
   5. Just today I was about to try on finishing the project but from the update on my PC I can’t boot up, I just used Slax on retrieving these files for my submission (im still working on how to recover my PC).