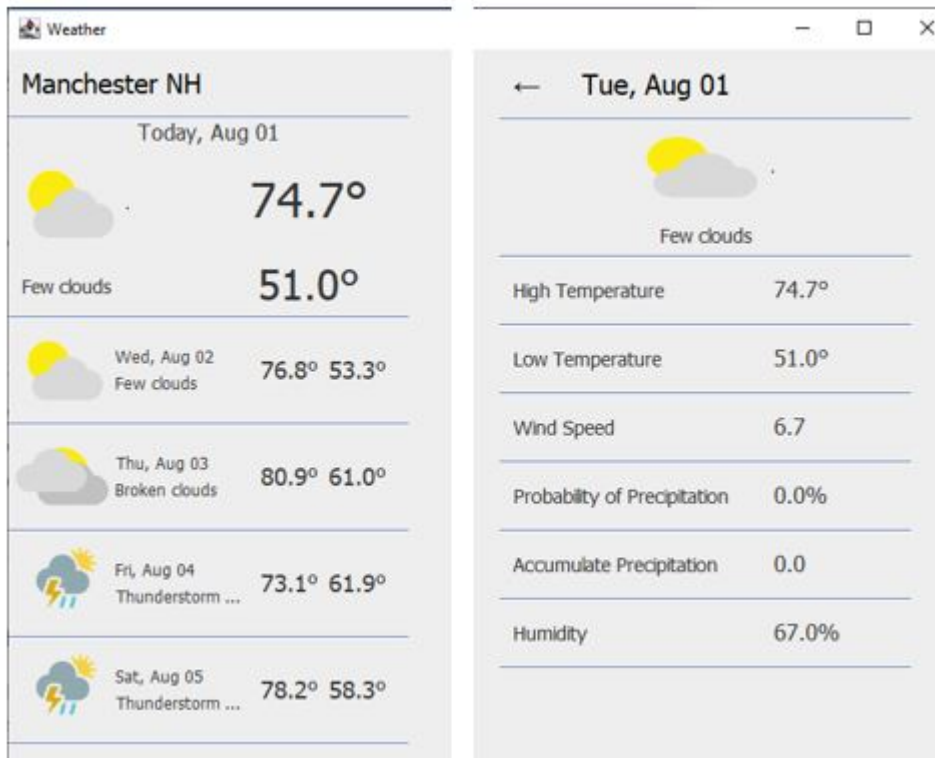


Lab5: Weather Forecast Part 1




- The left view (main view) shows the 5-day forecast.
- The right view shows the detailed forecast on the day clicked on the main view.

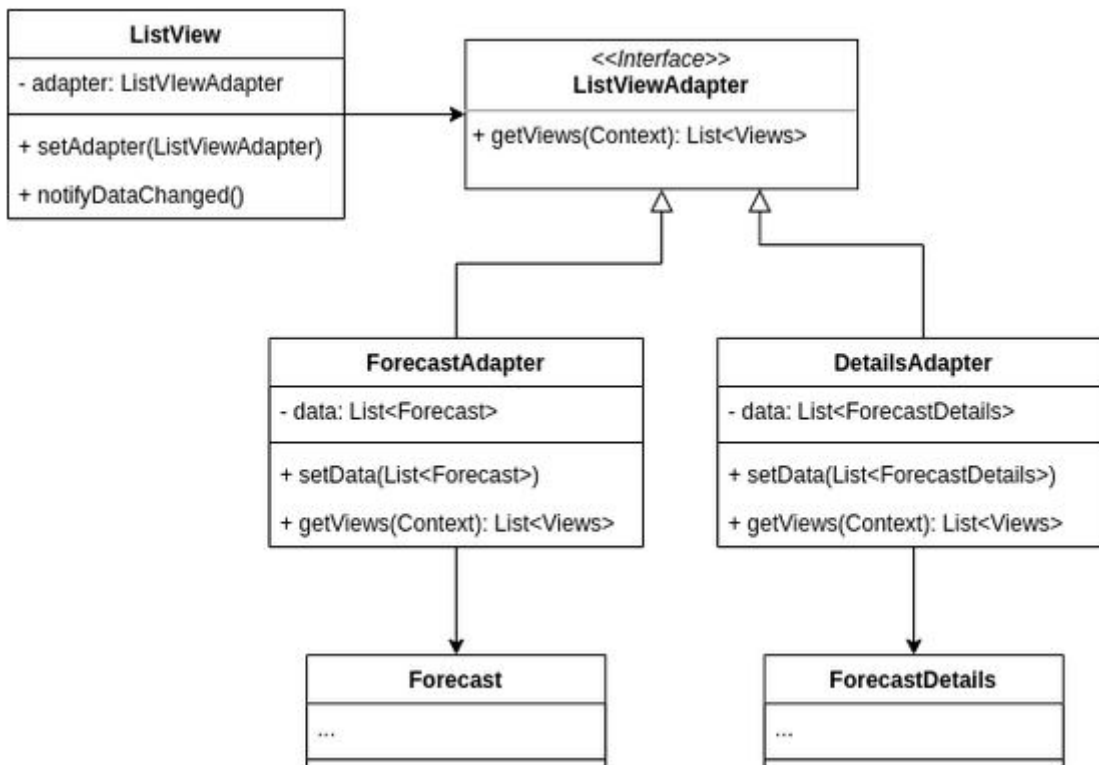
Objectives


- Learn how to use and implement Adapter Design Pattern.
- Review the Open-Closed Principle.
- Learn how to use an internet weather forecast service.

Work

1. Review [Weatherbit's 16-Dat Weather Forecast](#), which describes the weather forecast data used in this application.
2. Open `WeatherAPI.java` and check:
 - How is the endpoint URL built?
 - When is the network request is executed?
 - What data structure does your request return?
 - How is this data structure converted to the `Forecast` object?
3. In order to receive the weather forecast data from Weatherbit, you need the API key. You can generate your own key by creating an account at [Weatherbit.io](#) for free.
4.  **Put your key in the API key string.**
5. Review `Forecast.java` and `ForecastDetail.java` to find how the weather forecast items are handled.

6. `ListViewAdapter` is defined as an interface, which is implemented by `ForecastAdapter` and `DetailsAdapter` classes. Check how the adapter is implemented by the two classes.



7. Check how the `ForecastAdapter` and `DetailsAdapter` classes implement the `getViews()` method.
8.  **Implement the `updateData()` method in the `ListView` class, which calls the `update()` method of each view in the list of views returned by the current adapter.** Note that the `View` class is defined in `View.java`.

End of Lab5