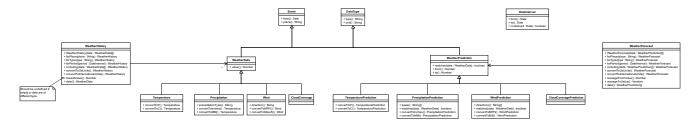# SWA1 A19 Course Assignment 2

Exercise 1.1

The diagram below represents a functional version of the weather classes. Implement it. You are expected to use a functional style everywhere. (use map, filter, reduce). Note that only WeatherHistory, WeatherForecast and the conversion methods have changed.

Alternatively, you can rewrite the entire thing using functions + data.

Exercise 1.2

The GitHub project at https://github.com/olehougaard/weather_report is a web service that serves random weather data and predictions for Horsens, Aarhus and Copenhagen. You can download it from the site or clone it with git using

```
git clone https://github.com/olehougaard/weather_report.git
```

See the documentation at the URL above.

Your task is to create a non-interactive web page that shows weather data and predictions for each of the three cities. There are no requirements about styling or readability. The page should show

- All data for the latest measurement of each kind
- Minimum temperature for the last 5 days
- Maximum temperature for the last 5 days
- Total precipitation for the last 5 days
- Average wind speed for the last 5 days
- Dominant wind direction for the last 5 days
- Average cloud coverage for the last 5 days
- Hourly predictions for the next 24 hours.

You must make two implementations of the web page:

a) Using XmlHttpRequest with callbacks

b) Using fetch with promises