SWA1 A20 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.

Note: There is no requirement to use any of the previous models for this.

You must make two implementations of the web page:

1. Using XmlHttpRequest with callbacks
2. Using fetch with promises