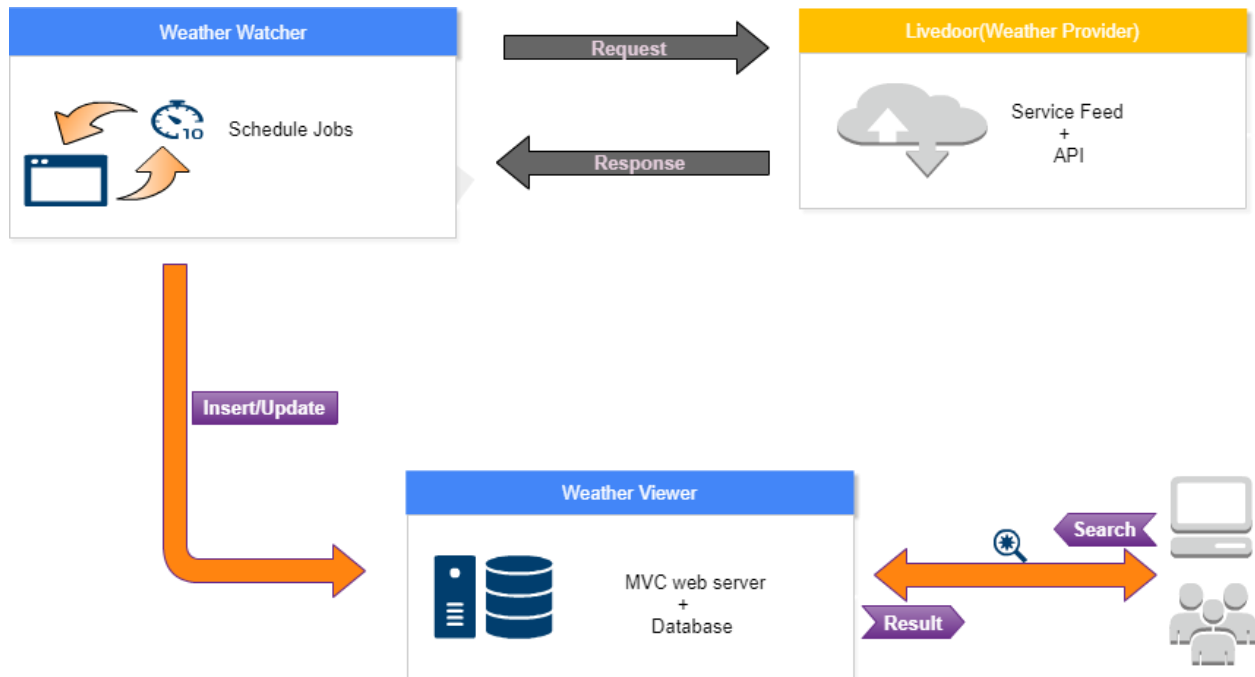# JAPAN WEATHER FORECAST DEMO PROJECT

OVERVIEW

1. User story and purpose

Demonstrate how to capture the weather information from third party's feed provider (like livedoor web service) and stored into customize database. After the routine application (back-end service) started, user could browser the web page and using the simple criteria to retrieve the weather data from different cities in Japan.

2. Project description

The project was separated into 3 sub projects:

➢ Weather.Core: Shared library project that implemented the core function, including the main scrape job for getting feed and gathering/parsing weather format data from third party provider. This library contains shared objects, helper/extension classes, data access layer and common logger functionalities that shared across other 2 sub-applications (Watcher and Viewer).

➢ Weather.Watcher: Main back-end service project that demonstrated as console application will running continuously till user decide to break it down. The main purpose of the service is initial and setup the scheduled job to scrape and extract weather's data to fixed format then dump into to database.

➢ Weather.Viewer: User interface that implement in web MVC project. Using the basic Bootstrap framework for design the web components. With basic multiple-selecter as user input, let user filtered prefectures and cities data in advance, further combined with forecast date time (today/tomorrow/the day after tomorrow) as search criteria. The query result simply display as table contains columns of each city's weather information.