# Backend Coding Challenge v2

# (PSV weather data)

## Summary

This coding challenge has two parts. First, you will be creating a job that parses and consumes an XML feed of weather data. Secondly, you will create a small RESTful API to query and update the data. This is not a pass or fail challenge. We simply want to see what you are capable of. Your submission is evaluated on the following:

#### Criteria

* Coding standards
* Object Oriented Design Principals
* Efficiency / Scalability
* Practicality

## Instructions

* You will need to use the Laravel MVC framework to complete this challenge
* Create a job in the task scheduler that consumes the attached weather data file
  + Create a MySQL database schema based on the XML structure
  + Parse the PSV (pipe separated value) file and insert data into the MySQL database
* Create 3 RESTful API endpoints
  + First endpoint should deliver a full listing of all the data
  + Second endpoint should deliver paged data with filter options
    - ascending / descending by the various numeric data points
  + Third endpoint should update a listing's city and state.

## Requirements

* Laravel MVC Framework
* Endpoints should return JSON
* Include a DDL for the Database or use Laravel's Migrations
* The job should be configured to run once a day at 2:00am EST
* Submit project via Github

## PSV (Pipe Separated Value) Data

[HomeWeatherFacts.txt﻿﻿﻿](https://www.dropbox.com/s/j7c14x278epf1lb/HomeWeatherFacts.txt?dl=0)