



PHP Developer Skills Test

Map Based Search Application

Overview

This technical test requires the candidate to develop a simple PHP application with best coding practices. Please read this document carefully before you start programming.

If you have any questions about the requirements in this document, please email hr@rabbitinternet.com

The goal is to create a simple website that allows the user to search for a city and displays tweets that mention the city on a map.

User Functionality

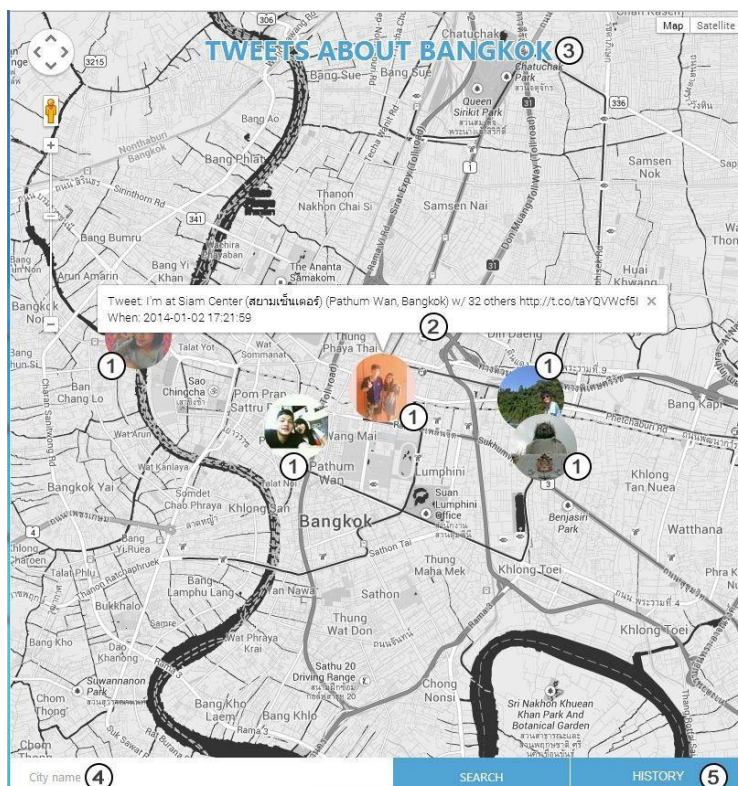
The site must be able to perform these functions.

1. Be responsive
2. User can search for a city
3. Map loads the city and displayed markers
4. Markers should display tweets that mention the city (content of tweet containing city name, show between 10-20 tweets).

Design

Search Page

The landing page for the user and where they will perform their searches



Key:

1. Tweet Markers
2. Info window with tweet and date
3. Search performed
4. Form for searching

Technical Functionality

Responsive Pages

The pages must be made use of responsive design. The site needs to be usable on mobile, tablet and desktop browsers. It must be compatible with any common browser (Chrome, IE, Firefox, Safari).

Map

Map to show the location searched for and to place tweets on. Can be your choice (Google, Bing, Open Streep Map, etc).

Search Form

As per the design, the HTML form should contain:

- Input box for city name
- Submit button to perform the search

Location Search

Using the API of your choice find the coordinates for the Location given by the user. Once found update the map to view those coordinates.

Twitter Search

Using the Twitter API find all tweets that contain the name of the location and are within 50km of the location.

Display only the tweets that **contain coordinate data** on the map as shown in the design. Use the profile picture as the marker and popup the tweet when clicked.

Configuration

Radius of the twitter search (50km) and time to live of the cache (1 hour) should be configurable

Object Orientation

Assume that fetching the tweets from twitter will be accessed from multiple places of the application.

PHP Framework Usage

If you use a framework, commit the entire framework in the first commit. Subsequent commits should contain your application code. Do not push everything in one commit.

Evaluation Criteria

This project should be completed within a day.

Code Quality

Code should conform to a common coding standard (e.g Zend, PSR2, etc). It should be commented properly, methods and classes should have PhpDoc blocks.

Code Design

The PHP should use Object Oriented design patterns. Using the MVC concept, preferably with a modern PHP Framework. Use object orientation to separate logic and provide SOLID code.

Technology

The project is to be written in PHP and Javascript. You are free to use any 3rd party Frameworks or Libraries.

User Experience

The User's experience should be bug free, smooth and responsive on desktop and mobile devices.

Hosting

We ask that the demo project be hosted in your own environment. Upon completion we expect you to provide a working link to the project for evaluation.

Use Git & Github

Use a local GIT repository as the source control while you create this website. When submitting the source code, please submit it with a link to the Github repository

Use Composer for dependencies

Use Composer to fetch and autoload all of your dependencies (framework, 3rd party libraries, etc) if there are dependencies.