Lifeblue PHP Developer Assessment

The next step in the interview process is a set of questions/assignments to help us better assess your skills and qualifications. Submit your responses to the technical questions only prior to your interview so that we may have time to review your work and be prepared to present and discuss all aspects of this assessment. The more you show, the more we know! Please do not hesitate to contact us if you have any questions or need further clarification on any of the tasks assigned.

The Lead-in

Prioritize the following list according to how you develop applications/websites and explain why you chose the order you did:

- Separation of concerns
- Application/Site performance
- Rapid development
- Maintainability

Analytical Skills

Provide an example of an existing high traffic web application that you think provides excellent usability for the user. Please provide your thoughts and analysis on why you believe it demonstrates excellent usability.

Technical Skills #1

Refer to the following PHP class for the next question.

```php
<?php
  class Webpage {
    private $myUrl;
    public function showHighlight($requestedUrl) {

    }
  }
?>
```

Complete the function showHighlight() so that it returns a boolean. Return true if $requestedUrl is the same as $myUrl. Return true if $requestedUrl is located in the same section as $myUrl, but only if $myUrl is a landing page. Return true if $myUrl is the landing page of a parent section to $requestedUrl. Assume the variables $myUrl and $requestedUrl contain valid absolute URL paths as strings. Assume that a root, section, or subsection landing page always has "index.html" for its filename, and that any other page does not. A sampling of values and their expected results is listed below.

```
$myUrl value                    $requestedUrl value                 return value
"/section/index.html"           "/section/page.html"                true
"/section/page.html"            "/section/other-page.html"          false
"/section/index.html"           "/section/subsection/index.html"    true
"/section/index.html"           "/section/subsection/page.html"     true
"/section/subsection/index.html"  "/section/other/index.html"  false
```

Technical Skills #2

Refer to the following PHP class for the next question.

```php
<?php
```

```
    class Template {
      private $breadcrumbs;
      public function getBreadcrumbNavigation() {


      }
    }

    class Webpage {
      public $anchorText, $myUrl;
    }
  ?>
```

Complete the function getBreadcrumbNavigation() so that it returns a string of HTML code. Assume the variable $breadcrumbs contains an array of Webpage objects with valid values for its member variables. The returned HTML code should be an ordered list of links. The last entry in the array is the current page and should show the anchor text, but should not have an anchor tag around it.

##Technical Skills #3

Take the following business requirement and build a small site to support the specific needs.

A real estate client wants to start collecting visitor information on their site. While very concerned about being overloaded with spam, they realized it was time for them to start using their site to capture information and begin to build a list of people that are interested in their properties. They would like the following information to be collected about a person:

- Name
- Email
- Address
- Phone number
- How they found out about us
- Budget

Once information is collected they would like to be notified and be sent the information about the visitor.

PHP must be used as some part of the final product. Your solution should be hosted on a web server you have access to and your source files may be sent as bundled files or made available at a public repository before your in-person interview. You must also submit all your supporting documents that helped you create the solution: notes, sketches, mockups, etc. Again, please do not hesitate to contact us if you have any questions or need further clarification on any of the tasks assigned.