

To: **Applicant**

As part of the employee screening and selection process Alpha Group require applicants to demonstrate some core skills and knowledge relevant to the role. This requires the completion of the following short test. Please complete this test and return to us prior to the interview. When you have completed the test please upload the work to GitHub and send us the link. We will provide feedback as soon as we can.

Test Description:

Create a Guestbook!

The guestbook must include the following criteria:

1. Develop the following form fields:
 - Name
 - Address
 - Email
 - Message
 - Captcha
2. All fields will be saved in the database plus including the following information:
 - signee's browser & its version
 - the platform used (OS)
 - IP address of the signee
3. When the signee submits the form, it must be an AJAX request and if successful then clear the form
4. Below the form will be the list of entries of the guestbook and it must show 10 entries. If there are more than 10 entries then you must create pagination
5. Reloading the list of entries should use AJAX request too
6. Lastly, use MVC approach and full OOP implementation of your source code

Requirements:

1. Setup XAMPP to your PC (<https://www.apachefriends.org/download.html>)
 - Familiarise how to setup hosts file and virtual host (search YouTube about how to do this)
 - Demonstrate how to customise your PHP modules/plugins, like adding mcrypt, php-gd, etc
 - Demonstrate an ability to customise your apache/httpd like mod_rewrite, etc...
2. Using MySQL / MariaDB as your database
 - Do not use root, but instead create a specific user & password to access this specific database with the right permissions
3. Write your code with PHP 5.6.x and use **SILEX framework** (<http://silex.sensiolabs.org/>)
4. For your UI, use jQuery 2.x and Bootstrap 3.x -- use **bower** to manage these packages (<https://bower.io/>)
5. For your PHP packages, always use **composer** (<https://getcomposer.org/>) to manage these packages so that you can easily update and install

Recommended Packages:

1. <https://github.com/google/recaptcha>
2. <https://github.com/sinergi/php-browser-detector>
3. <https://github.com/jasongrimes/php-paginator>