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$_SESSION['_CAPTCHA']['config'] = serialize($captcha_config);  
return array(  
    'code' => $captcha_config['code'],  
    'image_src' => $image_src  
);  
  
if ( !function_exists('hex2rgb') ) {  
    function hex2rgb($hex2rgb) {  
        $hex_str = preg_replace($return_string, $return_string = false, $separator = ',') {  
            $rgb_array = preg_replace("/[A0-9A-Fa-f]/", '', $hex_str); // Gets a proper hex string  
            if ( strlen($hex_str) == 6 ) {  
                $color_val = hexdec($hex_str);  
                $rgb_array['r'] = 0xFF & ($color_val >> 0x10);  
                $rgb_array['g'] = 0xFF & ($color_val >> 0x8);  
            } elseif ( strlen($hex_str) == 3 ) {  
                $rgb_array['r'] = hexdec(str_repeat(substr($hex_str, 0, 1), 2));  
                $rgb_array['g'] = hexdec(str_repeat(substr($hex_str, 1, 1), 2));  
                $rgb_array['b'] = hexdec(str_repeat(substr($hex_str, 2, 1), 2));  
            } else {  
                return false;  
            }  
        }  
        return $return_string ? implode($separator, $rgb_array) : $rgb_array;  
    }  
}
```

Boosting Project Deliveries for US based Premier Technology Firm with Comprehensive Development and Testing Services

BUSINESS SCENARIO:

Our client masters in providing 360-degree solution from ideation to maintenance while helping businesses to translate their Goals, Objectives and Budget into digital tools that can lead them to achieve their goal. With the help of expert strategists, designers and developers, they provide scope and best deployment strategy along with successful execution.

After a thorough analysis, they provide the most effective solutions through a measured and collaborative process. Their best quality solutions attracted clients from all over the world in a very short span of time required more resources. Due to lack of resources, they were unable to provide solutions according to the standards set. Hence, they were desperately seeking a trustworthy and efficient technology partner. Having a business relation of around 7 years and knowing Cygnet's expertise, they decided to hand over the backend of the enterprises' project to Cygnet.

They required a solution that had following functionalities:

- Responsive, Engaging, Feature Rich, Simplified and Interactive UI
- Decreased Solution Load Time and Increased Performance
- Integration of Multilingual functionality
- End-to-end Testing of the Developed Solution

PROJECT DETAILS

- **Customer Size:** Large Organization
- **Country:** US
- **Domain:** Information Technology
- **Solution:**
 - Technology: PHP
 - Programming Language: PHP
 - Development Framework: WordPress
 - Application Design Structure: CMS
 - Database: MySQL
 - Browser Compatibility: Latest Firefox, Chrome, IE, Edge, Mac Safari
 - Development Environment: Ubuntu

CYGNET'S SOLUTION:

During the initial phase, Team Cygnet understood the existing operations and analyzed the workflows to gain deeper insights. After a thorough research, Cygnet mapped the pattern and trends based on analytics. Thus, our team came up with a comprehensive backend development and testing strategy suiting their requirements.

Features considered to create business solutions were:

- **Responsive User Interface:** The websites were developed to render and behave according to the different versions- mobile, tablet and desktop. Having different versions meant that the content and the features of the site were tailored according to what the audience needed.
- **Multilingual Support:** Addressing the needs of foreign language speakers and the multicultural world, multilingual feature support was of prime importance in promoting effective communication. Users could easily navigate the website in different languages seamlessly.
- **End-to-end Testing of the Business Solutions:** Different types of testing like Functional Test, Regression Test, Compatibility Test and Retest were performed to ensure that the performance of the websites was in accordance to the client's requirements. Websites were made compatible across all the Browsers like Latest Firefox, Chrome, IE, Edge, Mac Safari.

CLIENT'S PROFILE:

A premier offshore software development company having a sole focus to provide the right-fit business solution to all of their clientele.

With one-of-a-kind strategy approach, they researched and analyzed their client's work, their competitors, their line of business and goals. Having a rich mix of creative and logical heads, they have leveraged their established network of engineering to develop top-notch business solutions for their clients that have put them on a competitive edge.

- **Milestone Management:** The client marked a scheduling point for design, development and testing. Cygnet team worked according to the timeline and milestones and accurately delivered the deliverables.
- **Quick Project Delivery:** Various tools that facilitated team communication and collaboration were used to create projects and tasks within the projects. This helped in quick delivery of the projects prioritizing client's expectations.

BENEFITS TO THE CLIENT:

- Business efficiency increased by 65%
- Strengthened relationship with end clients whilst building life-long business relations
- Reduced development and testing hours
- Increase in the number of projects
- 50+ Cygnet Team Members involved in working for 25 project deliveries
- Highly Cost effective with effective engagement models
- Flexible and Healthy engagement models and methodologies assisting quicker project delivery



Cygnets Infotech

IT is about you

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