BAB 5

KESIMPULAN DAN SARAN

5.1 Kesimpulan

Terdapat perubahan *performance* meskipun tidak signifikan dalam penggunaan plugin *Progressive Web Apps* (PWA) pada website *E-Commerce* untuk PT. Sumber Kurnia Alam. Pertama kali dilakukan uji coba pada website sebesar 132 megabita tanpa menggunakan *Progressive Web Apps* (PWA) mendapatkan *performance* sebesar 65% pada tampilan *mobile* dengan waktu menampilkan gambar terbesar *(largest contentful paint)* 7.4 detik dan 92% pada tampilan desktop dengan waktu menampilkan gambar terbesar *(largest contentful paint)* 1.8 detik.

Pengujian kedua dilakukan dengan menggunakan *Progressive Web Apps* (PWA) mendapatkan *performance* sebesar 71% pada tampilan *mobile* dengan waktu menampilkan gambar terbesar *(largest contentful paint)* 5.1 detik dan 93% pada tampilan desktop dengan waktu menampilkan gambar terbesar *(largest contentful paint)* 1.5 detik.

Pengujian ketiga dilakukan dengan mengkompres gambar dan juga membuang baris kode yang tidak diperlukan baik scss maupun js, mendapatkan *performance* sebesar 99% pada tampilan *mobile* dengan waktu menampilkan gambar terbesar *(largest contentful paint)* 3.5 detik dan 100% pada tampilan desktop dengan waktu menampilkan gambar terbesar *(largest contentful paint)* 1.1 detik.

Dengan demikian bisa disimpulkan bahwa ada enam kriteria untuk meningkatkan kecepatan waktu pada aplikasi berbasis *Progressive Web Apps* (PWA) yaitu, *first contentful paint*, *speed index*, *largest contentful paint*, *time to interactive*, *total blocking time*, dan *cumulative layout shift*. Enam kriteria tadi dapat meningkat lebih cepat apabila didukung dengan melakukan kompres gambar yang ukurannya besar dan membuang baris kode yang tidak perlu.

E-Commerce website pada PT. Sumber Kurnia Alam ini menggunakan WordPress sehingga untuk implementasi *Progressive Web Apps* (PWA) menggunakan plugin. Akhirnya diputuskan untuk menggunakan plugin Super Progressive Web Apps, karena jika dibandingkan dengan plugin PWA dan PWA for WP & AMP keduanya tidak didukung untuk *Push Notification*. Maka dari itu plugin Super Progressive Web Apps menjadi pilihan yang tepat untuk diimplementasikan pada website PT. Sumber Kurnia Alam.

5.2 Saran

Beberapa saran yang dapat diperlukan untuk perbaikan dan pengembangan dalam penelitian ini adalah sebagai berikut:

1. Perlunya mengukur kondisi yang sama pada server yang berbeda, sehingga didapatkan *performance* yang lebih akurat.
2. Membandingkan *performance* aplikasi berbasis *Progressive Web Apps* (PWA) pada Android dan iOS.

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LAMPIRAN

Lampiran A: Biodata Penulis

Foto

Nama Lengkap	: Evangeline Eunike
Tempat, tanggal lahir	: Semarang, 30 Maret 2001
Alamat Asal	: Permata Puri Jl. Wato-Wato III B 12/16
Telp/HP	: 0895364861112
Email	: evangelineeunike30@gmail.com
Riwayat Pendidikan	: SMA

Lampiran B: Lampiran Kode

header.php

```php
1   <?php
2   /**
3    * The header for our theme
4    *
5    * Displays all of the <head> section and everything up till <div id="content">
6    *
7    * @package Understrap
8    */
9
10  // Exit if accessed directly.
11  defined( 'ABSPATH' ) || exit;
12
13  $bootstrap_version = get_theme_mod( 'understrap_bootstrap_version', 'bootstrap4' );
14  $navbar_type       = get_theme_mod( 'understrap_navbar_type', 'collapse' );
15  ?>
16  <!DOCTYPE html>
17  <html <?php language_attributes(); ?>>
18  <head>
19      <meta charset="<?php bloginfo( 'charset' ); ?>">
20      <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
21      <link rel="profile" href="http://gmpg.org/xfn/11">
22
23      <!-- CDN Google Fonts -->
24      <link rel="preconnect" href="https://fonts.googleapis.com">
25      <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
26      <link href="https://fonts.googleapis.com/css2?family=Montserrat:wght@300;400;500;700&family=Yeseva+One&display=swap" rel="stylesheet">
27
28      <!-- CDN Font Awesome -->
29      <script src="https://kit.fontawesome.com/3d10eafdb8.js" crossorigin="anonymous"></script>
30
31      <!-- Add Class Nav -->
32      <script src="https://code.jquery.com/jquery-3.3.1.js"></script>
33
34      <script>
35          $(window).on('scroll',function(){
36              if($(window).scrollTop()){
37                  $('nav').addClass('black');
38              }
39              else{
40                  $('nav').removeClass('black');
41              }
42          })
43      </script>
44      <?php wp_head(); ?>
45  </head>
46
47  <body <?php body_class(); ?> <?php understrap_body_attributes(); ?>>
48  <?php do_action( 'wp_body_open' ); ?>
49  <div class="site" id="page">
50
51      <!-- ******************* The Navbar Area ******************* -->
52      <header id="wrapper-navbar">
53
54          <a class="skip-link sr-only sr-only-focusable" href="#content"><?php esc_html_e( 'Skip to content', 'understrap' ); ?></a>
55
56          <nav id="main-nav" class="navbar navbar-expand-lg navbar-light d-none d-lg-block" aria-labelledby="main-nav-label">
57
58              <div class="container">
59                  <div class="row w-100">
60                      <div class="col-12">
61                          <div class="primary-menu">
62                              <div class="row d-flex align-items-center">
63                                  <div class="col-10">
64                                      <div class="header-left">
65                                          <!-- The WordPress Menu goes here -->
66                                          <?php
67                                              wp_nav_menu(
68                                                  array(
69                                                      'menu'            => 'Menu 1',
70                                                      'theme_location'  => 'primary',
71                                                      'container_class' => 'collapse navbar-collapse',
72                                                      'container_id'    => 'navbarNavDropdown',
73                                                      'menu_class'      => 'navbar-nav ml-auto',
74                                                      'fallback_cb'     => '',
75                                                      'menu_id'         => 'main-menu',
76                                                      'depth'           => 2,
77                                                      'walker'          => new Understrap_WP_Bootstrap_Navwalker(),
78                                                  )
79                                              );
80                                          ?>
81                                      </div>
82                                  </div>
83                                  <div class="col-2">
84                                      <div class="header-right">
85                                          <?php echo do_shortcode( '[bc_cart_icon id=181]' ); ?>
86                                      </div>
87                                  </div>
88                              </div>
89                          </div>
90                      </div>
91                  </div>
92              </div>
```

header.php

```php
        </nav>

        <!--    Mobile Menu   -->
        <div id="mobile-nav" class="d-block d-lg-none">
            <nav class="sidebar-container">
                <div class="burger">
                    <span></span>
                    <span></span>
                    <span></span>
                </div>
            </nav>

            <div class="red-layer"></div>

            <div class="black-layer">
                <div class="close-btn">
                    <span></span>
                    <span></span>
                </div>

                <div class="menu-container">
                    <?php wp_nav_menu(
                        array(
                            'menu' => 'Primary Menu',
                            'theme_location'  => 'primary',
                            'container_class' => '',
                            'menu_class'      => '',
                            'fallback_cb'     => '',
                            'menu_id'         => 'sidebar-menu',
                            'depth'           => 2,
                            'walker'          => new Understrap_WP_Bootstrap_Navwalker(),
                        )
                    ); ?>
                </div>
            </div>

            <main class="page-container"></main>
        </div>

    </header><!-- #wrapper-navbar end -->
```

footer.php

```php
1  <?php
2  /**
3   * The template for displaying the footer
4   *
5   * Contains the closing of the #content div and all content after
6   *
7   * @package Understrap
8   */
9
10 // Exit if accessed directly.
11 defined( 'ABSPATH' ) || exit;
12
13 $container = get_theme_mod( 'understrap_container_type' );
14 ?>
15
16 <?php get_template_part( 'sidebar-templates/sidebar', 'footerfull' ); ?>
17
18 <div class="wrapper" id="wrapper-footer">
19
20     <footer>
21         <div class="container-fluid px-0">
22             <div class="row">
23                 <div class="col-12">
24                     <div class="first-column">
25                         <div class="img-insta">
26                             <img src="/wp-content/uploads/2022/09/IG-post-1.jpg">
27                         </div>
28                         <div class="img-insta">
29                             <a href="https://www.instagram.com/skacommodity/" target="_blank">
30                                 <img src="/wp-content/uploads/2022/09/Instagram-SKA.png">
31                             </a>
32                         </div>
33                         <div class="img-insta">
34                             <img src="/wp-content/uploads/2022/09/insta-2.jpg">
35                         </div>
36                         <div class="img-insta">
37                             <img src="/wp-content/uploads/2022/09/insta-3.jpg">
38                         </div>
39                         <div class="img-insta">
40                             <img src="/wp-content/uploads/2022/09/IG-post-4.jpg">
41                         </div>
42 <!--                        <?php dynamic_sidebar( 'new-widget-footer' ); ?> -->
43                     </div>
44                 </div>
45             </div>
46             <div class="row">
47                 <div class="col-12">
48                     <div class="container px-0">
49                         <div class="second-column">
50                             <div class="col-12 col-md-4 offset-xl-1 col-xl-4">
51                                 <div class="logo-ska-footer">
52                                     <a href="#">
53                                         <img src="/wp-content/uploads/2022/09/Sumber-Kurnia-Alam-logo.png">
54                                     </a>
55                                 </div>
56                             </div>
57                             <div class="col-12 col-md-2 col-xl-2">
58                                 <div class="menu-footer-1">
59                                     <h5>
60                                         Menu
61                                     </h5>
62                                     <?php
63                                         wp_nav_menu(
64                                             array(
65                                                 'menu'            => 'Footer 1',
66                                                 'theme_location' => 'primary',
67                                                 'container_class' => '',
68                                                 'container_id'    => '',
69                                                 'menu_class'      => '',
70                                                 'fallback_cb'     => '',
71                                                 'menu_id'         => 'footer-menu',
72                                                 'depth'           => 2,
73                                                 'walker'          => new Understrap_WP_Bootstrap_Navwalker(),
74                                             )
75                                         );
76                                     ?>
77                                 </div>
78                             </div>
79                             <div class="col-12 col-md-3 col-xl-2">
80                                 <div class="menu-footer-2">
81                                     <h5>
82                                         SKA Products
83                                     </h5>
```

footer.php

```php
                                    <?php
                                    wp_nav_menu(
                                        array(
                                            'menu'            => 'Footer 2',
                                            'theme_location'  => 'primary',
                                            'container_class' => '',
                                            'container_id'    => '',
                                            'menu_class'      => '',
                                            'fallback_cb'     => '',
                                            'menu_id'         => 'footer-menu',
                                            'depth'           => 2,
                                            'walker'          => new Understrap_WP_Bootstrap_Navwalker(),
                                        )
                                    );
                                    ?>
                                </div>
                            </div>
                            <div class="col-12 col-md-3 col-xl-2">
                                <div class="contact">
                                    <h5>
                                        Contact
                                    </h5>
                                    <a href="tel:+622476438697">
                                        <p>
                                            (+62) 24 7643 8697
                                        </p>
                                    </a>
                                    <a href="mailto:info@ska-indonesia.com" target="_blank">
                                        <p>
                                            info@ska-indonesia.com
                                        </p>
                                    </a>
                                </div>
                            </div>
                        </div>
                    </div>
                </div>
                <div class="row">
                    <div class="col-12">
                        <div class="container">
                            <div class="copyright">
                                <p>
                                    Copyright © 2022. SKA - PT Sumber Kurnia Alam | All Rights Reserved
                                </p>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </footer>

    </div><!-- wrapper end -->

</div><!-- #page we need this extra closing tag here -->

<?php wp_footer(); ?>

<script>
    jQuery(document).ready(function($) {
        $('.sidebar-container').on('click', function() {
            $('.black-layer').addClass('black-open');
            $('.red-layer').addClass('red-open');

            $('.red-layer').toggleClass('extend');
            $('.black-layer').toggleClass('extend');

            $('.close-btn span').toggleClass('animate-close-btn');
            $('.menu-container').toggleClass('menu-container-show');

            setTimeout(function() {
            }, 1000);
        });

        $('.close-btn').on('click', function() {
            $('.red-layer').toggleClass('extend');

            $('.black-layer').toggleClass('extend');
            $('.close-btn span ').toggleClass('animate-close-btn');

            $('.menu-container').toggleClass('menu-container-show');
        });
    });
</script>

</body>

</html>
```

functions.php

```php
<?php
/**
 * Understrap Child Theme functions and definitions
 *
 * @package UnderstrapChild
 */

// Exit if accessed directly.
defined( 'ABSPATH' ) || exit;


/**
 * Removes the parent themes stylesheet and scripts from inc/enqueue.php
 */
function understrap_remove_scripts() {
    wp_dequeue_style( 'understrap-styles' );
    wp_deregister_style( 'understrap-styles' );

    wp_dequeue_script( 'understrap-scripts' );
    wp_deregister_script( 'understrap-scripts' );
}
add_action( 'wp_enqueue_scripts', 'understrap_remove_scripts', 20 );


/**
 * Enqueue our stylesheet and javascript file
 */
function theme_enqueue_styles() {

    // Get the theme data.
    $the_theme = wp_get_theme();

    $suffix = defined( 'SCRIPT_DEBUG' ) && SCRIPT_DEBUG ? '' : '.min';
    // Grab asset urls.
    $theme_styles  = "/css/child-theme{$suffix}.css";
    $theme_scripts = "/js/child-theme{$suffix}.js";

    wp_enqueue_style( 'child-understrap-styles', get_stylesheet_directory_uri() . $theme_styles, array(), $the_theme->get( 'Version' ) );
    wp_enqueue_script( 'jquery' );
    wp_enqueue_script( 'child-understrap-scripts', get_stylesheet_directory_uri() . $theme_scripts, array(), $the_theme->get( 'Version' ), true );
    if ( is_singular() && comments_open() && get_option( 'thread_comments' ) ) {
        wp_enqueue_script( 'comment-reply' );
    }
}
add_action( 'wp_enqueue_scripts', 'theme_enqueue_styles' );


/**
 * Load the child theme's text domain
 */
function add_child_theme_textdomain() {
    load_child_theme_textdomain( 'understrap-child', get_stylesheet_directory() . '/languages' );
}
add_action( 'after_setup_theme', 'add_child_theme_textdomain' );


/**
 * Overrides the theme_mod to default to Bootstrap 5
 *
 * This function uses the `theme_mod_{$name}` hook and
 * can be duplicated to override other theme settings.
 *
 * @param string $current_mod The current value of the theme_mod.
 * @return string
 */
function understrap_default_bootstrap_version( $current_mod ) {
    return 'bootstrap5';
}
add_filter( 'theme_mod_understrap_bootstrap_version', 'understrap_default_bootstrap_version', 20 );


/**
 * Loads javascript for showing customizer warning dialog.
 */
function understrap_child_customize_controls_js() {
    wp_enqueue_script(
        'understrap_child_customizer',
        get_stylesheet_directory_uri() . '/js/customizer-controls.js',
        array( 'customize-preview' ),
        '20130508',
        true
    );
}
add_action( 'customize_controls_enqueue_scripts', 'understrap_child_customize_controls_js' );
```

```php
 93    /**
 94     * Change Login logo.
 95     */
 96    function my_login_logo() {
 97        ?>
 98            <style type="text/css">
 99                #login h1 a, .login h1 a {
100                    background-image: url('/wp-content/uploads/2022/09/profile_pic_ic5t-removebg.png');
101                }
102            </style>
103        <?php
104    }
105
106    add_action ('login_enqueue_scripts', 'my_login_logo');
107
108
109
110    /**
111     * Change login form.
112     */
113    function my_login_form() {
114        ?>
115            <style type="text/css">
116                .login-action-login {
117                    background: #c4a484;
118                }
119
120                #login {
121                    background: #ffeee2;
122                    padding: 15px !important;
123                    box-shadow: #210904 0px 7px 29px 0px;
124                    margin-top: 120px !important;
125                }
126
127                #login #loginform {
128                    background: transparent;
129                    border: none;
130                    box-shadow: none;
131                    padding: 0;
132                }
133
134                #user_login, #user_pass {
135                    background: transparent;
136                    border:none;
137                    border-bottom: 3px solid #210904;
138                    border-radius: 0;
139                }
140
141                #user_login:focus, #user_pass:focus {
142                    box-shadow: none;
143                }
144
145                .dashicons-visibility {
146                    color: #210904;
147                }
148
149                p.forgetmenot, #wp-submit {
150                    width: 100%;
151                }
152
153                #wp-submit {
154                    margin-top: 30px;
155                    background: #684a21;
156                    border: none;
157                    font-size: 15px;
158                }
159
160                #wp-submit:focus {
161                    box-shadow: 0 0 0 1px #fff, 0 0 0 3px #298a81;
162                }
163
164                #nav, #backtoblog {
165                    padding-left: 0 !important;
166                    padding-right: 0 !important;
167                }
168
```

functions.php

```php
169                #nav a:hover, #backtoblog a:hover {
170                    color: #298a81 !important;
171                }
172            </style>
173        <?php
174    }
175
176    add_action ('login_enqueue_scripts', 'my_login_form');
177
178
179
180    /**
181     * Change Link value.
182     */
183    function my_login_logo_url() {
184        return home_url();
185    }
186
187    add_action ('login_headerurl', 'my_login_logo_url');
188
189
190
191    /**
192     * Add description.
193     */
194    function wc_add_long_description() {
195        global $product;
196
197        ?>
198            <div class="description" id="desc-featured-products">
199                <?php echo apply_filters( 'the_content', $product->get_description() ) ?>
200            </div>
201        <?php
202    }
203
204    add_action( 'woocommerce_after_shop_loop_item_title', 'wc_add_long_description' );
```

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