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1. Membuat aplikasi toko_online dengan javascript

1.1.Source Code Aplikasi Toko Online

a) Manifest.json

```
{
  "name": "App toko online",
  "short_name": "toko online",
  "description": "Membuat Single Page Application dengan jquery & PWA",
  "icons": [
    {
      "src": "assets/images/product.png",
      "sizes": "512x512",
      "type": "image/png"
    },
    {
      "src": "assets/images/product-192.png",
      "sizes": "192x192",
      "type": "image/png"
    }
  ],
  "start_url": "/",
  "display": "standalone",
  "theme_color": "#1F3641",
  "background_color": "#ffffff",
  "prefer_related_applications": false
}
```

b) Service-worker.js

```
const CACHE_NAME = "SW-001";
const toCache = [
  "/",
  "manifest.json",
  "assets/js/register.js",
  "assets/css/bootstrap.css",
  "assets/css/bootstrap.css.map",
  "assets/css/styles.css",
  "assets/css/navigation.css",
  "assets/images/product.png",
  "assets/images/product-192.png",
  "assets/js/bootstrap.js",
  "assets/js/bootstrap.js.map",

```

```

    "assets/js/jquery-3.6.1.min.js",
    "assets/js/script.js",
    "index.html",
  ];
  self.addEventListener("beforeinstallprompt", e => {
    e.preventDefault();
    deferredPrompt = e;
    showInstallPromotion();
  });
  self.addEventListener("install", function (event) {
    event.waitUntil(
      caches
        .open(CACHE_NAME)
        .then(function (cache) {
          return cache.addAll(toCache);
        })
        .then(self.skipWaiting())
    );
  });
  self.addEventListener("fetch", function (event) {
    event.respondWith(
      fetch(event.request).catch(() => {
        return caches.open(CACHE_NAME).then(cache => {
          return cache.match(event.request);
        });
      })
    );
  });
  self.addEventListener("activate", function (event) {
    event.waitUntil(
      caches
        .keys()
        .then(keyList => {
          return Promise.all(
            keyList.map(key => {
              if (key !== CACHE_NAME) {
                console.log("[ServiceWorker] Hapus cache lama", key);
                return caches.delete(key);
              }
            })
          );
        })
        .then(() => self.clients.claim())
    );
  });
});

```

c) Register.js

```
document.addEventListener("DOMContentLoaded", init, false);

function init() {
  if ("serviceWorker" in navigator && navigator.onLine) {
    navigator.serviceWorker.register("/service-worker.js").then(
      reg => {
        console.log("Registrasi service worker Berhasil", reg);
      },
      err => {
        console.error("Registrasi service worker Gagal", err);
      }
    );
  }
}
```

d) Index.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-
scale=1, shrink-to-fit=no" />
  <link rel="stylesheet" type="text/css"
href="./assets/css/bootstrap.css">
  <link rel="stylesheet" type="text/css"
href="./assets/css/styles.css">
  <link rel="stylesheet" type="text/css"
href="./assets/css/navigation.css">
  <link rel="stylesheet"
href="https://cdn-uicons.flaticon.com/uicons-regular-
rounded/css/uicons-regular-rounded.css" />
  <link rel="stylesheet" href="https://cdn-
uicons.flaticon.com/uicons-solid-rounded/css/uicons-solid-
rounded.css" />
  <link rel="stylesheet" href="https://cdn-
uicons.flaticon.com/uicons-bold-rounded/css/uicons-bold-rounded.css"
/>
  <link
href="https://fonts.googleapis.com/css?family=Open+Sans:600,700"
rel="stylesheet">
  <link rel="manifest" href="./manifest.json">
```

```

</head>

<body class="align-items-start pt-0 flex-column">

    <main role="main" class="container-fluid col-xl-4 col-lg-4 col-
md-6 col-sm-12 col-12 pt-0 pl-0 pr-0">
        <div id="content"></div>
    </main>

    <footer
        class="container-footer w-100 mb-4 p-3 flex-row justify-
content-center col-xl-4 col-lg-4 col-md-6 col-sm-12 col-12 m-auto">
    </footer>

    <nav
        class="navbar bottom-nav fixed-bottom navbar-expand bg-white
shadow-sm col-xl-4 col-lg-4 col-md-6 col-sm-12 col-12 text-center m-
auto">
        <div class="bottom-nav-item" id="home" onclick="home();">
            <div class="bottom-nav-link">
                <p>
                    <i class="fi fi-rr-home unselected"></i>
                    <i class="fi fi-sr-home selected"></i>
                </p>
                <span>Beranda</span>
            </div>
        </div>

        <div class="bottom-nav-item" id="katalog"
onclick="katalog();">
            <div class="bottom-nav-link">
                <p>
                    <i class="fi fi-rr-boxes unselected"></i>
                    <i class="fi fi-rr-boxes selected"></i>
                </p>
                <span>Katalog</span>
            </div>
        </div>

        <div class="bottom-nav-item" id="profil"
onclick="profil();">
            <div class="bottom-nav-link">
                <p>
                    <i class="fi fi-rr-user unselected"></i>
                    <i class="fi fi-sr-user selected"></i>

```

```

        </p>
        <span>Profil</span>
    </div>
</div>

<div class="bottom-nav-item" onclick="info();">
    <div class="bottom-nav-link">
        <p>
            <i class="fi fi-rr-comment-info unselected"></i>
            <i class="fi fi-rr-comment-info selected"></i>
        </p>
        <span>Tentang</span>
    </div>
</div>
</nav>

<script src="./assets/js/jquery-3.6.1.min.js"></script>
<script src="./assets/js/bootstrap.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/sweetalert2@11"></script>
<script src="./assets/js/register.js"></script>

<!--New Script add-->
<script src="./assets/js/script.js"></script>
</body>

</html>

```

e) Home.html

```

<div id="container-user d-flex flex-row justify-content-between px-3
py-4">
    <div class="container-user d-flex flex-row justify-content-
between px-3 py-4">
        <div class="content-text flex-column w-100">
            <p class="bodytext2 color-black500 p-0 m-0"
id="dataName">
                Selamat datang
            </p>
            <p class="headline6 color-black500 semibold p-0 m-0">
                App Toko Online
            </p>
        </div>
        <a class="content-image-profile flex-shrink" href="profile">
            <div class="frame-image">

```

```

        
    </div>
</a>
</div>
<form class="form-search container-search mx-3 mb-4 d-flex
justify-content-between align-items-center"
style="height: 48px">
    <div class="input-group-search bg-white h-100">
        <input type="text" name="search" id="search"
class="bodytext1 color-black800"
placeholder="Cari barang di sini ..." required />
    </div>
    <button type="button" onclick="search"
class="h-100 d-flex align-items-center justify-content-
center button-search ml-3" style="width: 48px">
        <i class="fi fi-br-search text-white"
onclick="fetch();"></i>
    </button>
</form>
<div class="container-products w-100">
    <div id="load_data" class="container-product d-flex justify-
content-start
d-flex w-100 flex-wrap px-2 py-2">
        </div>
    </div>
</div>

```

f) Katalog.html

```

<div id="container-user d-flex flex-row justify-content-between px-3
py-4">
    <div class="container-user d-flex flex-row justify-content-
between px-3 py-4">
        </div>
        <form class="form-search container-search mx-3 mb-4 d-flex
justify-content-between align-items-center"
style="height: 48px">
            <div class="input-group-search bg-white h-100">
                <input type="text" name="search" id="search"
class="bodytext1 color-black800"
placeholder="Cari barang di sini ..." required />
            </div>
            <button type="button" onclick="search"

```

```

        class="h-100 d-flex align-items-center justify-content-
center button-search ml-3" style="width: 48px">
        <i class="fi fi-br-search text-white"
onclick="fetch();"></i>
        </button>
    </form>
    <div class="container-products w-100">
        <div id="load_data" class="container-product d-flex justify-
content-start
d-flex w-100 flex-wrap px-2 py-2">
            </div>
        </div>
    </div>
</div>

```

g) Profil.html

```

<div class="container-user d-flex flex-column w-100 px-3 py-4 mb-4">
    <div class="content-profile d-flex flex-column align-items-
center mt-2 py-4">
        <div class="container-image-profile">
            
        </div>
        <div class="data-profile d-flex flex-column flex-fill">
            <p class="headline5 color-black500 semibold p-0 mb-2 mt-
2 text-center" id="dataName">
                Nama Akun
            </p>
            <p class="bodytext2 color-black500 p-0 m-0 text-center"
id="dataEmail">
                akun@email.com
            </p>
        </div>
    </div>
    <div class="container-spec d-flex align-content-between flex-
wrap mt-3 mb-3 data-spec" id="data-spec">
        <div class="spec-item flex-column flex-fill justify-content-
column m-0 mt-3 p-3 radius-16">
            <p class="bodytext1 color-black500 semibold mb-2 flex-
fill w-100">Pengaturan Akun</p>
            <a href="#" class="text-decoration-none d-flex">
                <button
                    class="button-action-profile color-black500 bg-
white bodytext1 d-flex flex-row justify-content-between align-items-
center flex-fill px-0 py-2">

```



```

        <p class="mb-0 bodytext1 flex-fill text-left">
            Edit Profil
        </p>
        <i class="fi fi-sr-angle-right"></i>
    </button>
</a>
<a href="#" class="text-decoration-none d-flex">
    <button
        class="button-action-profile color-black500 bg-
white bodytext1 d-flex flex-row justify-content-between align-items-
center flex-fill px-0 py-2">
        <p class="mb-0 bodytext1 flex-fill text-left">
            Ubah Kata Sandi
        </p>
        <i class="fi fi-sr-angle-right"></i>
    </button>
</a>
<button
    class="button-action-logout text-white bodytext1
text-center mt-3 d-flex flex-row w-100 justify-content-center flex-
fill"
    id="buttonLogout">
    <p class="mb-0">Log out</p>
</button>
</div>
</div>
</div>

```

h) Script.js

```

// Routing Halaman Utama yaitu Home
$(document).ready(function () {
    home();
    $("#home").addClass("active");
    $("#katalog").removeClass("active");
    $("#profil").removeClass("active");
});

function home() {
    $.ajax({
        type: "GET",
        url: "home.html",
        data: "data",
        dataType: "html",
        success: function (response) {

```

```

        $("#content").html(response);
        $("#home").addClass("active");
        $("#katalog").removeClass("active");
        $("#profil").removeClass("active");
        fetch();
    },
    });
}

function katalog() {
    $.ajax({
        type: "GET",
        url: "katalog.html",
        data: "data",
        dataType: "html",
        success: function (response) {
            $("#content").html(response);
            $("#home").removeClass("active");
            $("#katalog").addClass("active");
            $("#profil").removeClass("active");
            fetch();
        },
    });
}

function profil() {
    $.ajax({
        type: "GET",
        url: "profil.html",
        data: "data",
        dataType: "html",
        success: function (response) {
            $("#content").html(response);
            $("#home").removeClass("active");
            $("#katalog").removeClass("active");
            $("#profil").addClass("active");
        },
    });
}

// Sweet alert Info Aplikasi
sweetalert2;
function info() {
    Swal.fire({
        title: "Info",

```

```

        text: "Apps Toko Online v.1.0",
        icon: "info",
        confirmButtonText: "Tutup",
        confirmButtonColor: "#3085d6",
    });
}

// Get data from api
function fetch() {
    $.ajax({
        type: "GET",
        url: "http://localhost/api_toko_online/produk/list?search=" +
$("#search").val(),
        dataType: "JSON",
        success: function (response) {
            $("#load_data").html("");
            if (response.status) {
                let card_data = "";
                $.each(response.data, function (i, v) {
                    card_data += `<a class="product-items w-50 flex-column"
href="#">
                        <div class="product-cover mb-2" style="background-image:
url('${v.img}')"></div>
                        <p class="bodytext1 semibold m-0 px-2 text-
secondary">${v.nama}</p>
                        <p class="bodytext2 color-black300 m-0 px-
2">${v.deskripsi.substring(0, 40)}</p>
                        <p class="caption m-0 py-1 px-2 text-primary">Rp.
${numFormat(v.harga)}</p>
                    </a>`;
                });
                $("#load_data").html(card_data);
            } else {
                $("#load_data").html(
                    '<div class="col-12 text-center"><h4 class="text-
danger">Oops, barang yang anda cari tidak di temukan</h4></div>'
                );
            }
        },
    });
}

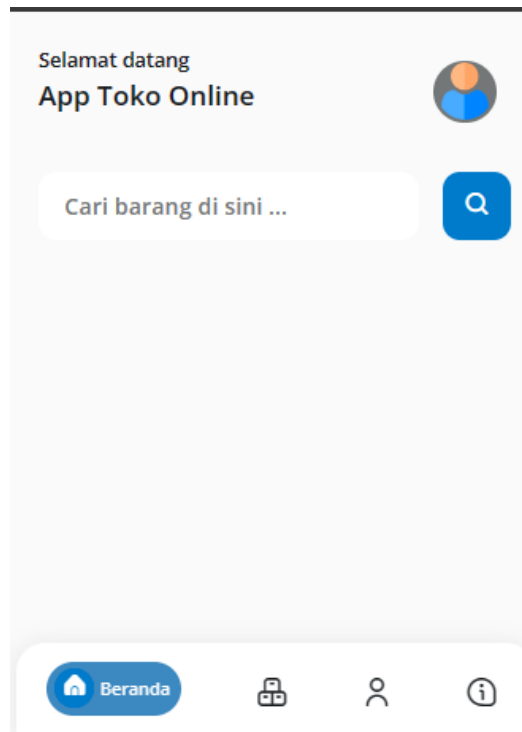
// Format Currency
function numFormat(x) {
    return x.toString().replace(/\B(?=(\d{3})+(?!\d))/g, ",");
}

```

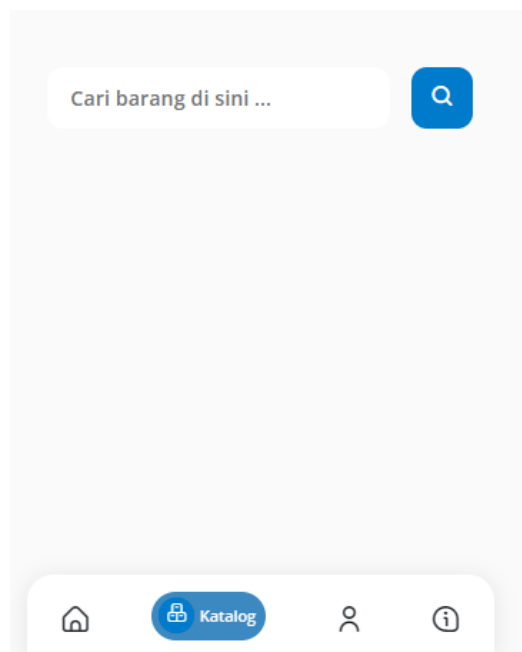
}

1.2. Tampilan Browser

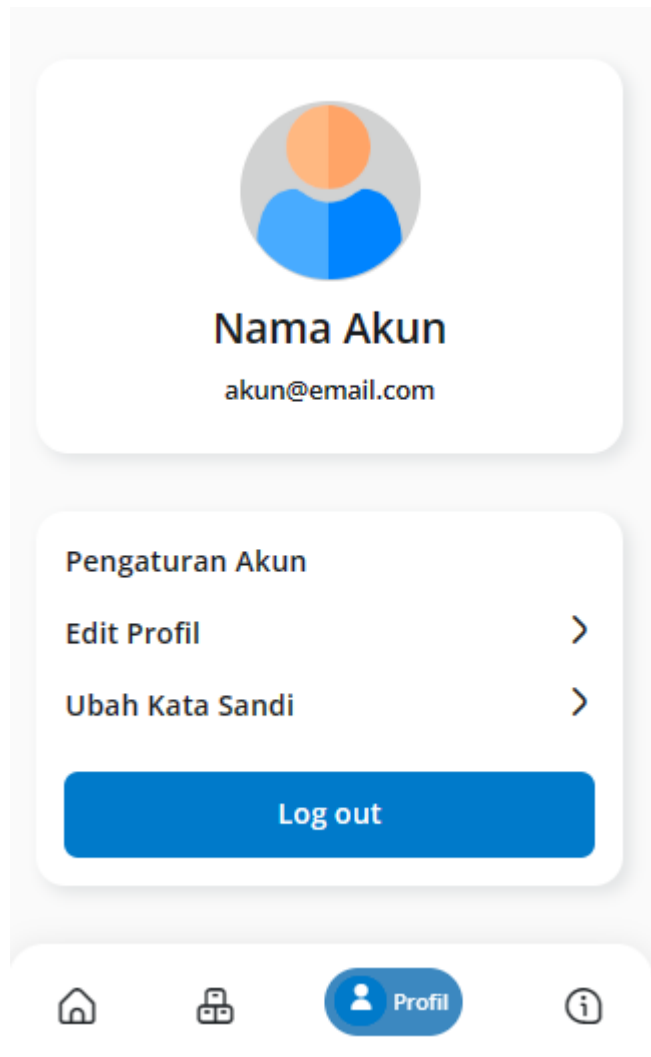
a. Tampilan Home



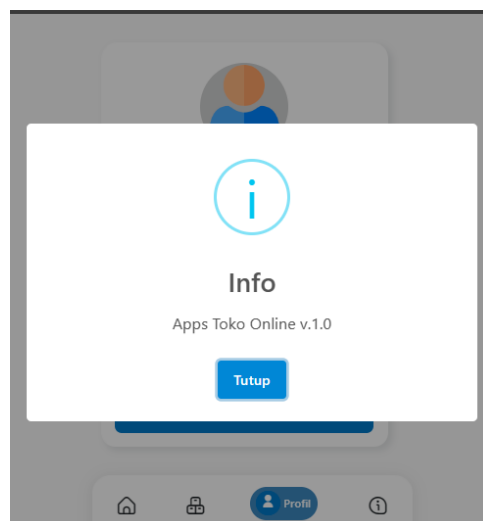
b. Tampilan Katalog



c. Tampilan Profil



d. Modal Versi Aplikasi



2. Membuat Rest API CodeIgniter 3.

2.1. Include CodeIgniter Rest API folder (api_toko_online)

a. Rest Api Code Igniter

application	20/11/2022 09.11	File folder	
system	20/11/2022 09.11	File folder	
.htaccess	20/11/2022 09.11	HTACCESS File	1 KB
composer.json	20/11/2022 09.11	JSON Source File	1 KB
error_log	20/11/2022 09.11	File	42 KB
index.php	20/11/2022 09.11	PHP Source File	11 KB

b. Membuat Controller Baru dengan nama file produk.php

```
<?php

use Restserver\Libraries\REST_Controller;

defined('BASEPATH') or exit('No direct script access allowed');
require APPPATH . 'libraries/REST_Controller.php';
require APPPATH . 'libraries/Format.php';

class Produk extends REST_Controller
{
    function __construct()
    {
        parent::__construct();
    }

    function list_get()
    {
        header("Access-Control-Allow-Origin: *");
        header("Access-Control-Allow-Methods: GET, POST, OPTIONS, PUT, DELETE");
        header('Content-Type: application/json');

        $search = $this->input->get('search', TRUE);
        $this->db->select('*');
        $this->db->from('produk');
        //clausa like di gunakan untuk filter pada pencarian sesuai keyword pencarian
        if ($search != '') {
            $this->db->like('nama', $search);
        }
    }
}
```

```

    }

    $this->db->order_by('nama', 'ASC');
    $produk = $this->db->get();

    if ($produk->num_rows() > 0) {
        $this->response([
            'status' => TRUE,
            'data' => $produk->result()
        ], REST_Controller::HTTP_OK);
    } else {
        $this->response([
            'status' => FALSE,
            'message' => 'Barang tidak ditemukan'
        ], REST_Controller::HTTP_OK);
    }
}
}

```

2.2. Membuat Database toko_online (tabel produk)

a. Database Aplikasi Toko Online

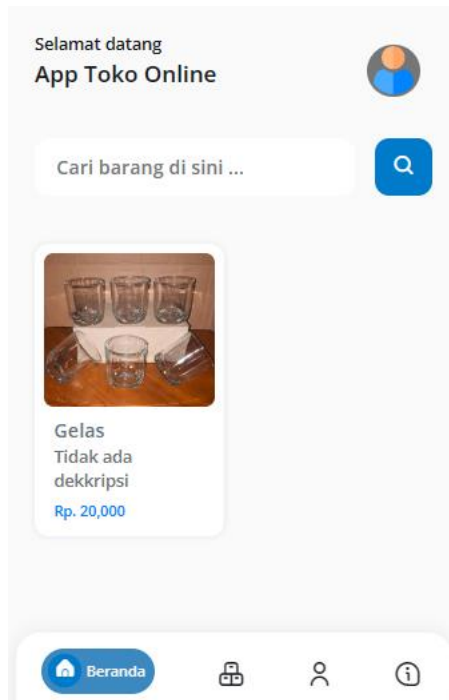
#	Nama	Jenis	Penyortiran	Atribut	Tak Terbilang	Bawaan	Komentar	Ekstra	Tindakan
<input type="checkbox"/> 1	id	int(11)			Tidak	Tidak ada		AUTO_INCREMENT	Ubah
<input type="checkbox"/> 2	nama	varchar(100)	latin1_swedish_ci		Tidak	Tidak ada			Ubah
<input type="checkbox"/> 3	harga	double			Tidak	Tidak ada			Ubah
<input type="checkbox"/> 4	deskripsi	text	latin1_swedish_ci		Tidak	Tidak ada			Ubah
<input type="checkbox"/> 5	img	text	latin1_swedish_ci		Tidak	Tidak ada			Ubah

2.3. Test Api Menggunakan Postman

a. Test untuk data produk kosong

2.4. Lihat Tampilan dalam Aplikasi toko_online yang mengambil data array dari API (http://localhost/api_toko_online/produk/list?search=)

a. Tampilan Home



b. Tampilan Katalog

