**LAPORAN DOKUMENTASI**

**PROJECT AKHIR WEBSITE TOEFL**

*Disusun untuk memenuhi tugas Mata Kuliah*

*Dasar Pemograman Web*

****

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**PRODI TEKNIK INFORMATIKA**

**JURUSAN TEKNIK INFORMATIKA  
FAKULTAS TEKNIK**

**UNIVERSITAS TRUNOJOYO MADURA**

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# **Halaman Utama Website TOEFL**

## **Source Code Halaman Utama**

**Index.html dan JavaScript Internal**

|  |
| --- |
| <!DOCTYPE *html*>  <html *lang***=**"id">  <head>      <meta *charset***=**"UTF-8">      <meta *name***=**"viewport" *content***=**"width=device-width, initial-scale=1.0">      <title>TOEL.id | Test Online TOEFL</title>  *<!-- CSS Utama -->*      <link *rel***=**"stylesheet" *href***=**"/css/global.css">      <link *rel***=**"stylesheet" *href***=**"/css/pages/index.css">  *<!-- Font & Icon -->*      <link *href***=**"https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap" *rel***=**"stylesheet">      <link *rel***=**"stylesheet" *href***=**"https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.2/css/all.min.css">  </head>  <body>  *<!-- Floating background logo -->*      <div *class***=**"bg-floating-logo"></div>  *<!-- Header Navigasi -->*      <header *class***=**"header">          <div *class***=**"brand">TOEL.id | <span *class***=**"highlight">Test Online TOEFL</span></div>          <nav>              <a *href***=**"/auth/login" *class***=**"btn login">Login</a>              <a *href***=**"/auth/register" *class***=**"btn register">Register</a>          </nav>      </header>      <main>  *<!-- Hero Section -->*          <div *class***=**"hero">              <h1>Selamat Datang di</h1>              <h1>TOEL | Test Online TOEFL</h1>              <p>Platform latihan dan simulasi TOEFL modern, gratis dan mudah diakses. Tingkatkan skor TOEFL kamu dengan soal-soal berkualitas, dashboard interaktif, serta penilaian otomatis!</p>              <a *href***=**"#start-section" *class***=**"btn cta" ***id*=**"btn-mulai">Mulai Sekarang</a>          </div>    *<!-- Info Section -->*          <section *class***=**"info-section" ***id*=**"start-section">              <h2 *class***=**"info-title">Hal Yang Perlu Diperhatikan?</h2>              <div *class***=**"info-grid">                  <div *class***=**"info-card info-card-green">                      <div *class***=**"info-icon"><i *class***=**"fas fa-user-clock"></i></div>                      <h3>Waktu Minimal 2 Jam</h3>                      <p>Siapkan waktu minimal 2 jam untuk menyelesaikan seluruh test TOEFL.</p>                  </div>                  <div *class***=**"info-card info-card-pink">                      <div *class***=**"info-icon"><i *class***=**"fas fa-globe"></i></div>                      <h3>Akses Di Bermacam Browser</h3>                      <p>Tes dilakukan secara online dan dapat diakses dengan semua jenis browser.</p>                  </div>                  <div *class***=**"info-card info-card-yellow">                      <div *class***=**"info-icon"><i *class***=**"fas fa-heartbeat"></i></div>                      <h3>Koneksi Yang Stabil</h3>                      <p>Siapkan koneksi internet yang stabil dengan baterai yang cukup.</p>                  </div>                  <div *class***=**"info-card info-card-purple">                      <div *class***=**"info-icon"><i *class***=**"fas fa-headphones"></i></div>                      <h3>Siapkan Earphone/Headphone</h3>                      <p>Siapkan earphone atau headphone untuk bagian tes mendengarkan (listening).</p>                  </div>              </div>          </section>  *<!-- About Section -->*          <section *class***=**"about-section">              <h2 *class***=**"about-title">Apa itu TOEFL?</h2>              <p *class***=**"about-desc">                  TOEFL adalah ujian kemampuan berbahasa Inggris yang diperlukan untuk mendaftar masuk ke universitas di Amerika Serikat atau negara-negara lain di dunia.              </p>              <div *class***=**"about-divider"></div>              <h2 *class***=**"about-title">Mengapa Harus Ikut Tes TOEFL?</h2>              <div *class***=**"about-grid">                  <div *class***=**"about-card">                      <i *class***=**"fas fa-graduation-cap about-icon"></i>                      <p>Lebih mudah masuk ke universitas ternama di <b>Amerika Serikat, Inggris, Australia dan Kanada</b></p>                  </div>                  <div *class***=**"about-card">                      <i *class***=**"fas fa-rocket about-icon"></i>                      <p><b>Salah satu syarat mendapatkan izin menjalani kursus pendek</b> di Amerika Serikat</p>                  </div>                  <div *class***=**"about-card">                      <i *class***=**"fas fa-passport about-icon"></i>                      <p>Sebagai salah <b>satu kualifikasi untuk mendapatkan beasiswa</b> ke universitas di Amerika Serikat dan Kanada</p>                  </div>              </div>          </section>  *<!-- CTA Section -->*          <section *class***=**"cta-section" ***id*=**"cta-section">              <div *class***=**"cta-card">                  <h2>Siap Mulai Tes TOEFL Online?</h2>                  <p>Login atau daftar sekarang untuk mulai latihan dan simulasi TOEFL secara gratis!</p>                  <div *class***=**"cta-buttons">                      <a *href***=**"/auth/login" *class***=**"btn login">Login</a>                      <a *href***=**"/auth/register" *class***=**"btn register">Register</a>                  </div>              </div>          </section>      </main>  *<!-- Footer -->*      <footer>          <p>&copy; 2025 TOEL.id | Test Online TOEFL. All rights reserved.</p>          <p>Developed by:</p>          <p>  *<!-- NIM 144 bisa diklik, buka tab baru -->*              <a *href***=**"https://zakariamp.vercel.app" *target***=**"\_blank" *rel***=**"noopener noreferrer" *style***=**"color:#2471f3; text-decoration:none; font-weight:600;">                  240411100144              </a>              | 240411100181 | 240411100166          </p>      </footer>  *<!-- Script Floating Logo & Smooth Scroll -->*      <script>  *// Logo 3D mengambang acak di seluruh halaman*      const logoUrl **=** "https://cdn3d.iconscout.com/3d/premium/thumb/exam-paper-3d-icon-download-in-png-blend-fbx-gltf-file-formats--test-sheet-question-education-pack-school-icons-7704627.png"**;**      const logoCount **=** 5**;**      const container **=** document**.**querySelector('.bg-floating-logo')**;**  *// Generate logo di posisi acak*  **for** (let i **=** 0**;** i **<** logoCount**;** i**++**) {          const img **=** document**.**createElement('img')**;**          img**.***src* **=** logoUrl**;**  *// Area acak seluruh layar, margin kiri-kanan 5vw-90vw, margin atas 5vh-85vh*          img**.***style***.***left* **=** (5 **+** Math**.**random() **\*** 90) **+** 'vw'**;**          img**.***style***.***top* **=** (5 **+** Math**.**random() **\*** 85) **+** 'vh'**;**          img**.***style***.***animationDelay* **=** (Math**.**random() **\*** 4) **+** 's'**;**          img**.***style***.***transform* **+=** ` rotate(${Math**.**random()**\***40**-**20}deg) scale(${1 **+** Math**.**random()**\***0.5})`**;**          container**.**appendChild(img)**;**      }  *// Smooth scroll ke CTA section saat tombol "Mulai Sekarang" diklik*      document**.**getElementById('btn-mulai')**.**addEventListener('click'**,** function(**e**) {          e**.**preventDefault()**;**          const target **=** document**.**getElementById('cta-section')**;**  **if** (target) {              window**.**scrollTo({                  top**:** target**.***offsetTop* **-** 30**,** *// offset sedikit di atas section*                  behavior**:** 'smooth'              })**;**          }      })**;**      </script>  </body>  </html> |

**Kode CSS Eksternal**

**1.global.css**

|  |
| --- |
| \* {      margin**:** 0**;**      padding**:** 0**;**      box-sizing**:** border-box**;**      font-family**:** 'Poppins'**,** 'Segoe UI'**,** sans-serif**;**  }  *:root* {      --primary-color**:** **#4fc3f7;**      */\* biru muda \*/*      --secondary-color**:** **#ffe082;**    */\* kuning muda \*/*      --accent-color**:** **#fffde7;**       */\* kuning muda sangat terang \*/*      --text-color**:** **#222;**            */\* tetap gelap untuk kontras \*/*      --light-gray**:** **#f5faff;**         */\* putih kebiruan \*/*      --border-color**:** **#b3e5fc;**       */\* biru muda soft \*/*      --success-color**:** **#09ff00;**      */\* biru muda \*/*      --error-color**:** **#ff0000;**        */\* kuning muda \*/*      --white**:** **#ffffff;**  }  body {      background-color**:** **#f8f9fa;**      color**:** var(--text-color)**;**      line-height**:** 1.6**;**      min-height**:** 100vh**;**  }  *.container* {      max-width**:** 1200px**;**      margin**:** 0 auto**;**      padding**:** 0 2rem**;**  }  *.btn* {      display**:** inline-block**;**      padding**:** 0.8rem 1.5rem**;**      border-radius**:** 8px**;**      border**:** none**;**      cursor**:** pointer**;**      font-weight**:** 500**;**      transition**:** all 0.3s ease**;**      text-align**:** center**;**      font-size**:** 1rem**;**  }  *.btn-primary* {      background**:** var(--primary-color)**;**      color**:** var(--white)**;**      box-shadow**:** 0 4px 6px rgba(74**,** 85**,** 162**,** 0.2)**;**  }  *.btn-primary:hover* {      background**:** var(--secondary-color)**;**      transform**:** translateY(-2px)**;**      box-shadow**:** 0 6px 8px rgba(74**,** 85**,** 162**,** 0.3)**;**  } |

**2.index.css**

|  |
| --- |
| */\* =========================*  *Layout & Struktur Dasar*  *========================= \*/*  html**,** body {    height**:** 100%**;**  }  body {    min-height**:** 100vh**;**    display**:** flex**;**    flex-direction**:** column**;**    font-family**:** 'Segoe UI'**,** Arial**,** sans-serif**;**    margin**:** 0**;**    padding**:** 0**;**    background**:** **#2471f3;**    color**:** **#222;**    position**:** relative**;**    overflow-x**:** hidden**;**    padding-bottom**:** 80px**;** */\* ruang untuk footer jika fixed \*/*  }  */\* =========================*  *Header & Navigasi*  *========================= \*/*  *.header* {    display**:** flex**;**    justify-content**:** space-between**;**    align-items**:** center**;**    padding**:** 1.2rem 3vw**;**    background**:** **#fff;**    box-shadow**:** 0 2px 12px rgba(50**,**50**,**50**,**0.07)**;**    position**:** sticky**;**    top**:** 0**;**    z-index**:** 100**;**  }  *.brand* {    font-weight**:** 700**;**    font-size**:** 1.4rem**;**    letter-spacing**:** .03em**;**  }  *.highlight* {    color**:** **#257cff;**    font-weight**:** bold**;**  }  nav {    display**:** flex**;**    gap**:** 1rem**;**  }  */\* =========================*  *Tombol (Button)*  *========================= \*/*  *.btn* {    padding**:** .55em 1.4em**;**    border-radius**:** 1.5em**;**    border**:** none**;**    font-size**:** 1rem**;**    cursor**:** pointer**;**    text-decoration**:** none**;**    transition**:** background .15s**;**    font-weight**:** 500**;**  }  *.btn.login* {    background**:** transparent**;**    color**:** **#257cff;**    border**:** 1.5px solid **#257cff;**  }  *.btn.register***,**  *.btn.cta* {    background**:** **#257cff;**    color**:** **#fff;**    border**:** 1.5px solid **#257cff;**    margin-left**:** .3em**;**  }  *.btn.login:hover***,** *.btn.register:hover***,** *.btn.cta:hover* {    background**:** **#184c99;**    color**:** **#fff;**    border-color**:** **#184c99;**  }  */\* =========================*  *Hero Section*  *========================= \*/*  *.hero* {    position**:** relative**;**    max-width**:** 650px**;**    margin**:** 4rem auto 2rem auto**;**    padding**:** 2.4rem 2rem**;**    background**:** **#fff;**    border-radius**:** 20px**;**    box-shadow**:** 0 2px 32px rgba(60**,**60**,**60**,**.09)**;**    text-align**:** center**;**    z-index**:** 1**;**  }  *.hero* > h1 {    margin-top**:** 0**;**    margin-bottom**:** 0**;**    font-size**:** 2.2rem**;**  }  *.hero* p {    font-size**:** 1.15rem**;**    margin-bottom**:** 2em**;**    color**:** **#444;**  }  */\* =========================*  *Floating Logo Background*  *========================= \*/*  */\* Container logo mengambang di seluruh halaman \*/*  *.bg-floating-logo* {    position**:** fixed**;**    left**:** 0**;**    top**:** 0**;**    width**:** 100vw**;**    height**:** 100vh**;**    z-index**:** 0**;**    pointer-events**:** none**;**    overflow**:** hidden**;**  }  */\* Logo 3D mengambang \*/*  *.bg-floating-logo* img {    position**:** absolute**;**    width**:** 180px**;**    opacity**:** 0.18**;**    filter**:** drop-shadow(0 4px 16px **#0002**)**;**    user-select**:** none**;**    pointer-events**:** none**;**    animation**:** float 6s ease-in-out infinite alternate**;**  }  */\* Animasi mengambang \*/*  @keyframes float {  *0%* { transform**:** translateY(0px) rotate(0deg)**;**}  *50%* { transform**:** translateY(-30px) rotate(5deg)**;**}  *100%* { transform**:** translateY(0px) rotate(0deg)**;**}  }  */\* =========================*  *Info Section*  *========================= \*/*  *.info-section* {    margin**:** 4rem auto 2rem auto**;**    max-width**:** 1200px**;**    text-align**:** center**;**  }  *.info-title* {    font-size**:** 2.2rem**;**    font-weight**:** 700**;**    margin-bottom**:** 2.2rem**;**    letter-spacing**:** -1px**;**    color**:** **#fff;**  }  *.info-grid* {    display**:** flex**;**    flex-wrap**:** wrap**;**    gap**:** 2rem**;**    justify-content**:** center**;**  }  *.info-card* {    background**:** **#fff;**    border-radius**:** 16px**;**    box-shadow**:** 0 4px 24px **#0001;**    padding**:** 2rem 1.5rem 1.5rem 1.5rem**;**    width**:** 270px**;**    min-height**:** 170px**;**    text-align**:** left**;**    transition**:** box-shadow 0.2s**;**    display**:** flex**;**    flex-direction**:** column**;**    align-items**:** flex-start**;**  }  *.info-card* h3 {    font-size**:** 1.15rem**;**    font-weight**:** 700**;**    margin-bottom**:** 0.5rem**;**    color**:** **#2471f3;**  }  *.info-card* p {    font-size**:** 1rem**;**    color**:** **#2471f3;**    margin**:** 0**;**  }  *.info-icon* {    font-size**:** 2.2rem**;**    margin-bottom**:** 1rem**;**  }  *.info-card-green*   { background**:** **#eafaf1;** color**:** **#1abc9c;** }  *.info-card-pink*    { background**:** **#fdeef4;** color**:** **#e17055;** }  *.info-card-blue*    { background**:** **#eaf6fb;** color**:** **#0984e3;** }  *.info-card-yellow*  { background**:** **#fff9e5;** color**:** **#f6b93b;** }  *.info-card-purple*  { background**:** **#f5f0fa;** color**:** **#6c5ce7;** }  *.info-card-red*     { background**:** **#fff0f0;** color**:** **#e74c3c;** }  */\* =========================*  *About Section*  *========================= \*/*  *.about-section* {    margin**:** 4rem auto 2rem auto**;**    max-width**:** 1000px**;**    text-align**:** center**;**  }  *.about-title* {    font-size**:** 2rem**;**    font-weight**:** 700**;**    margin**:** 2.5rem 0 1rem 0**;**    color**:** **#222;**  }  *.about-desc* {    font-size**:** 1.1rem**;**    color**:** **#222;**    margin-bottom**:** 1.5rem**;**  }  *.about-divider* {    width**:** 80px**;**    height**:** 4px**;**    background**:** **#00bcd4;**    border-radius**:** 2px**;**    margin**:** 1.5rem auto 2rem auto**;**  }  *.about-grid* {    display**:** flex**;**    flex-wrap**:** wrap**;**    gap**:** 2.5rem**;**    justify-content**:** center**;**    margin-top**:** 2rem**;**  }  *.about-card* {    background**:** **#fff;**    border-radius**:** 16px**;**    box-shadow**:** 0 4px 24px **#0001;**    padding**:** 2rem 1.5rem 1.5rem 1.5rem**;**    width**:** 280px**;**    min-height**:** 180px**;**    text-align**:** center**;**    display**:** flex**;**    flex-direction**:** column**;**    align-items**:** center**;**  }  *.about-card* *.about-icon* {    color**:** **#2471f3;** */\* atau warna lain sesuai info-icon \*/*    font-size**:** 2.5rem**;**    margin-bottom**:** 1rem**;**  }  *.about-card* p {    font-size**:** 1rem**;**    color**:** **#444;**    margin**:** 0**;**  }  *.about-card* b {    color**:** **#222;**  }  *.about-card:nth-child*(1) *.about-icon* { color**:** **#ff0000;** }      */\* Hitam \*/*  *.about-card:nth-child*(2) *.about-icon* { color**:** **#2471f3;** }   */\* Biru \*/*  *.about-card:nth-child*(3) *.about-icon* { color**:** **#ffb300;** }   */\* Kuning \*/*  */\* Pastikan section utama tetap di atas background \*/*  *.main-content***,** *.info-section***,** *.about-section* {    position**:** relative**;**    z-index**:** 1**;**  }  */\* Card dan judul font warna biru \*/*  *.info-title***,** *.about-title***,** *.about-desc* {      color**:** **#fff**  }  *.info-card* h3**,** *.about-card* b**,**  *.info-card* p**,** *.about-card* p {    color**:** **#2471f3;**  }  */\* Footer tidak menutupi konten \*/*  footer {    position**:** static**;**    width**:** 100%**;**    background**:** **#fff;**    color**:** **#222;**    text-align**:** center**;**    padding**:** 1.2rem 0 1.2rem 0**;**    z-index**:** 3**;**    box-shadow**:** 0 -2px 16px **#0001;**  }  */\* Container logo mengambang \*/*  *.floating-logo-bg* {    position**:** relative**;**    width**:** 100vw**;**    height**:** 240px**;**    margin-bottom**:** 2rem**;**    z-index**:** 0**;**    pointer-events**:** none**;**    overflow**:** visible**;**  }  */\* Logo 3D mengambang \*/*  *.bg-floating-logo* img {    position**:** absolute**;**    width**:** 180px**;**    opacity**:** 0.18**;** */\* cukup transparan tapi tetap terlihat \*/*    filter**:** drop-shadow(0 4px 16px **#0002**)**;**    user-select**:** none**;**    pointer-events**:** none**;**    animation**:** float 6s ease-in-out infinite alternate**;**  }  */\* Animasi mengambang \*/*  @keyframes float {  *0%* { transform**:** translateY(0px) rotate(0deg)**;**}  *50%* { transform**:** translateY(-30px) rotate(5deg)**;**}  *100%* { transform**:** translateY(0px) rotate(0deg)**;**}  }  */\* Logo mengambang \*/*  *.floating-logo-bg* img {    position**:** absolute**;**    width**:** 140px**;**    opacity**:** 0.13**;**    filter**:** drop-shadow(0 4px 16px **#0002**)**;**    user-select**:** none**;**    pointer-events**:** none**;**    animation**:** floatY 4s ease-in-out infinite alternate**;**  }  */\* Animasi mengambang \*/*  @keyframes floatY {  *from* { transform**:** translateY(0)**;** }  *to*   { transform**:** translateY(-30px)**;** }  }  */\* =========================*  *CTA Section*  *========================= \*/*  *.cta-section* {    display**:** flex**;**    justify-content**:** center**;**    align-items**:** center**;**    margin**:** 48px 0 48px    0**;**  }  *.cta-card* {      display**:** relative**;**      z-index**:** 1**;**    background**:** **#fff;**    border-radius**:** 18px**;**    box-shadow**:** 0 4px 24px **#0001;**    padding**:** 32px 32px 24px 32px**;**    text-align**:** center**;**    max-width**:** 480px  }  *.cta-card* h2 {    margin-bottom**:** 12px**;**    color**:** **#2471f3;**  }  *.cta-card* p {    margin-bottom**:** 18px**;**    color**:** **#222;**  }  *.cta-buttons* *.btn* {    margin**:** 0 10px**;**    min-width**:** 110px**;**  } |

## **Penjelasan per bagian Code**

**HTML**

**1.Struktur Dokumen HTML**

<!DOCTYPE html>

<html lang="id">

* <!DOCTYPE html>: Menyatakan bahwa dokumen ini adalah HTML versi 5.
* <html lang="id">: Elemen pembungkus seluruh halaman. Atribut lang="id" menandakan bahasa yang digunakan adalah Bahasa Indonesia (baik untuk SEO & screen reader).

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>TOEL.id | Test Online TOEFL</title>

...

</head>

* <meta charset="UTF-8"> : Menentukan encoding karakter (agar bisa membaca karakter Indonesia/Latin).
* <meta name="viewport"...> : Membuat Agar halaman tampil responsive di HP/tablet.
* <title> : Judul yang muncul di tab browser.
* <link rel="stylesheet"> : Menghubungkan file CSS eksternal (di sini: global.css dan index.css).
* <link href="https://fonts.googleapis..."> : Membuat font Poppins dari Google Fonsts.
* <link rel="stylesheet" href="https://cdnjs..."> : Memuat icon Font Awesome (ikon gambar seperti headphone, globe, dsb).

**2.Bagian Body (Isi Halaman)**

**2.1** **Floating Background Logo**

<div class="bg-floating-logo"></div>

* Sebuah container kosong yang nantinya akan **diisi gambar logo (ikon 3D)** yang mengambang dengan animasi, menggunakan JavaScript di bagian akhir.

**2.2 Header Navigasi**

<header class="header">

<div class="brand">TOEL.id | <span class="highlight">Test Online TOEFL</span></div>

<nav>

<a href="/auth/login" class="btn login">Login</a>

<a href="/auth/register" class="btn register">Register</a>

</nav>

</header>

* Bagian atas halaman yang terdiri dari **Logo/nama brand** di kiri (TOEL.id | Test Online TOEFL)dan **Tombol navigasi login & register** di kanan.
* **Tombol navigasi login & register** di kanan.

**2.3 Hero Section (Halaman Depan)**

<div class="hero">

<h1>Selamat Datang di</h1>

<h1>TOEL | Test Online TOEFL</h1>

<p>Platform latihan dan simulasi TOEFL modern ...</p>

<a href="#start-section" class="btn cta" id="btn-mulai">Mulai Sekarang</a>

</div>

Ini adalah bagian pertama yang dilihat pengguna:

* Judul sambutan.
* Deskripsi platform TOEFL online.
* Tombol **"Mulai Sekarang"** yang saat diklik akan men-scroll ke bagian info.

**2.4 Info Section (Hal yang Perlu Diperhatikan)**

<section class="info-section" id="start-section">

<h2>Hal Yang Perlu Diperhatikan?</h2>

<div class="info-grid">...</div>

</section>

* Penjelasan **hal-hal penting** sebelum memulai tes.
* Terdiri dari 4 kartu informasi:

|  |  |  |
| --- | --- | --- |
| Icon | Judul | Penjelasan |
| 🕒 fa-user-clock | Waktu Minimal 2 Jam | Tes butuh waktu khusus |
| 🌐 fa-globe | Bisa di Semua Browser | Tes berbasis web |
| ❤️ fa-heartbeat | Koneksi Stabil | Wajib koneksi & baterai aman |
| 🎧 fa-headphones | Earphone/Headphone | Untuk bagian listening |

**2.5 About Section (Penjelasan TOEFL)**

<section class="about-section">

<h2>Apa itu TOEFL?</h2>

<p>TOEFL adalah ujian ...</p>

...

<h2>Mengapa Harus Ikut Tes TOEFL?</h2>

<div class="about-grid">...</div>

</section>

Menejalskan:

* **Pengertian TOEFL**: tes bahasa Inggris untuk kuliah di luar negeri.
* **Manfaat TOEFL**:
  + Untuk kuliah ke luar negeri
  + Untuk kursus atau program jangka pendek
  + Untuk beasiswa
* Terdapat ikon dan teks dalam 3 *card/grid*.

**2.6 CTA Section (Ajakan Tes)**

<section class="cta-section" id="cta-section">

<div class="cta-card">

<h2>Siap Mulai Tes TOEFL Online?</h2>

<p>Login atau daftar sekarang ...</p>

<div class="cta-buttons">

<a href="/auth/login" class="btn login">Login</a>

<a href="/auth/register" class="btn register">Register</a>

</div>

</div>

</section>

* Call To Action (CTA): Bagian ajakan agar user segera login atau register.
* Ini adalah target dari tombol “Mulai Sekarang” di hero section.

**2.7 Footer (Halaman Bawah/ Catatan Kaki)**

<footer>

<p>&copy; 2025 TOEL.id | ...</p>

<p>Developed by:</p>

<p>

<a href="https://zakariamp.vercel.app" target="\_blank">240411100144</a>

| 240411100181 | 240411100166

</p>

</footer>

Berisi:

* Copyright
* Nama/NIM mahasiswa pengembang website
* Salah satu link diklik akan membuka portofolio masing masing NIM di tab baru.

**JAVASCRIPT**

**1. Floating Logo**

const logoUrl = "...";

for (let i = 0; i < 5; i++) {

const img = document.createElement('img');

...

container.appendChild(img);

}

* Menyimpan URL logo dan memilih elemen tempat menampilkannya.
* Membuat 5 gambar logo mengambang secara acak di layar.
* Mengatur posisi (left, top), rotasi, skala, dan delay animasi.

**2. Smooth Scroll**

document.getElementById('btn-mulai').addEventListener('click', function(e) {

...

window.scrollTo({ top: ..., behavior: 'smooth' });

});

* Saat tombol **"Mulai Sekarang"** diklik, halaman akan scroll dengan animasi ke #cta-section.

**CSS (CaseCading Stylesheet)**

**global.css**

**1.Universal Selector**

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

font-family: 'Poppins', 'Segoe UI', sans-serif;

}

Fungsinya:

* margin: 0 dan padding: 0: Menghilangkan **ruang bawaan (default)** dari semua elemen (reset CSS).
* box-sizing: border-box: Lebar elemen **termasuk padding dan border**, memudahkan perhitungan layout.
* font-family: Semua teks akan menggunakan font: Pertama coba Poppins, kalau tidak ada pakai Segoe UI, terakhir fallback ke font default sans-serif.

**2. Variabel CSS (:root)**

:root {

--primary-color: #4fc3f7; /\* biru muda \*/

--secondary-color: #ffe082; /\* kuning muda \*/

--accent-color: #fffde7; /\* kuning muda sangat terang \*/

--text-color: #222; /\* tetap gelap untuk kontras \*/

--light-gray: #f5faff; /\* putih kebiruan \*/

--border-color: #b3e5fc; /\* biru muda soft \*/

--success-color: #09ff00; /\* hijau terang \*/

--error-color: #ff0000; /\* merah \*/

--white: #ffffff;

}

Fungsinya:

* Mendefinisikan warna-warna utama sebagai variabel CSS agar bisa digunakan berulang di seluruh stylesheet dengan var(--nama).

**3. Styling body**

body {

background-color: #f8f9fa;

color: var(--text-color);

line-height: 1.6;

min-height: 100vh;

}

Fungsinya:

* background-color: Warna latar belakang halaman (abu-abu terang).
* color: Warna teks utama mengikuti variabel --text-color.
* line-height: 1.6: Jarak antar baris agar teks mudah dibaca.
* min-height: 100 vh : Tinggi minimal setinggi layar (viewport height).

**4.Styling Container**

.container {

max-width: 1200px;

margin: 0 auto;

padding: 0 2rem;

}

Fungsinya:

* .container: Elemen pembungkus utama untuk **membatasi lebar konten.**
* max-width: 1200px: Lebar maksimum kontainer.
* margin: 0 auto: Pusatkan ke tengah (horizontal).
* padding: Tambahkan ruang kiri-kanan sebesar 2 rem.

**5.Styling .btn**

.btn {

display: inline-block;

padding: 0.8rem 1.5rem;

border-radius: 8px;

border: none;

cursor: pointer;

font-weight: 500;

transition: all 0.3s ease;

text-align: center;

font-size: 1rem;

}

Fungsinya:

Mengatur tampilan dasar semua tombol:

* padding: Besar tombol.
* border-radius: Sudut membulat.
* cursor: pointer: Kursor berubah saat diarahkan.
* transition: Efek animasi halus untuk hover, dll.
* font-weight: 500: Teks setengah tebal.
* text-align: center: Teks rata tengah.

**6. Styling .btn-primary dan Hover-nya**

.btn-primary {

background: var(--primary-color);

color: var(--white);

box-shadow: 0 4px 6px rgba(74, 85, 162, 0.2);

}

Fungsinya:

Tombol utama:

* background: Warna biru muda dari --primary-color.
* color: Warna teks putih.
* box-shadow: Efek bayangan lembut agar tombol tampak naik sedikit.

**Index.css**

**1.Layout & Struktur Dasar**

html, body { height: 100%; }

body {

min-height: 100vh;

display: flex;

flex-direction: column;

...

}

Fungsinya:

* html, body { height: 100%; } → memastikan tinggi penuh halaman.
* min-height: 100vh → agar body minimal setinggi layar.
* display: flex; flex-direction: column; → menyusun elemen dalam kolom, penting agar footer tetap di bawah.
* padding-bottom: 80px; → memberi ruang agar konten tidak tertutup footer.

**2. Header & Navigasi**

.header { ... }

.brand { ... }

nav { display: flex; gap: 1rem; }

Fungsinya:

* position: sticky; top: 0 → header tetap di atas saat scroll.
* .brand → nama/logo aplikasi, dibuat tebal & besar.
* nav → navigasi horizontal dengan jarak antar item.

**3. Tombol (Button)**

.btn { padding, border, transition... }

.btn.login { background: transparent; border biru; }

.btn.register { background biru solid }

Fungsinya:

* Tombol menggunakan class seperti .login, .register.
* Transisi warna saat hover membuat tombol interaktif.

**4. Hero Section**

.hero { max-width, margin, background putih, border-radius }

.hero > h1 { font besar }

.hero p { teks penjelas }

Fungsinya:

* Elemen pembuka utama di halaman.
* box-shadow membuat elemen tampak melayang.

**5. Floating Logo Background**

.bg-floating-logo img {

position: absolute;

animation: float ...

}

Fungsinya:

* Logo transparan mengambang sebagai hiasan background.
* Animasi @keyframes float buatnya naik turun halus.

**6. Info Section**

.info-section, .info-title, .info-grid, .info-card { ... }

Fungsinya:

* Menyusun informasi seperti fitur atau keunggulan.
* .info-grid pakai Flexbox, responsif.
* .info-card adalah kotak info dengan background warna berbeda.

**7. About Section**

.about-section, .about-grid, .about-card { ... }

Fungsinya:

* Menjelaskan tim/pengembang atau latar belakang.
* .about-card mirip info-card, tapi lebih fokus pada orang/penjelasan.

**8. Warna Dinamis dan Kustomisasi**

.info-card-green, .info-card-blue, .about-card:nth-child(1) { color spesifik }

Fungsinya:

* Warna dibedakan tiap card untuk memberi variasi visual.

**9. Footer**

footer {

position: static;

width: 100%;

box-shadow atas...

}

Fungsinya

* Diletakkan di bawah, tidak menutupi konten.
* Tampilan bersih dengan latar putih dan bayangan.

**10. CTA Section (Call to Action)**

.cta-section { display: flex; justify-content: center; }

.cta-card { background putih, shadow, tombol aksi }

Fungsinya:

* Bagian ajakan seperti “Mulai Tes Sekarang”.
* Fokus utama konversi pengguna (klik tombol).

## **Hasil Running Progam**

# **Halaman Login, Register dan 404 TOEFL**

## **Source Code Login**

* **Login**
* **Code Program HTML**

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Login - TOEL.id</title>  <link rel="stylesheet" href="/css/global.css">  <link rel="stylesheet" href="/css/pages/auth/login.css">  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap" rel="stylesheet">  </head>  <body>  <header class="header">  <div class="brand">TOEL.id | <span class="highlight">Test Online TOEFL</span></div>  <nav><a href="/" class="btn">Back</a></nav>  </header>  <div class="container">  <h1>Log in</h1>  <div class="log">  <form onsubmit="return handleLogin(event)">  <label for="user">Username</label>  <input type="text" name="user" id="user" autocomplete="username" required>  <label for="pw">Password</label>  <input type="password" name="pw" id="pw" autocomplete="current-password" required>  <button type="submit">Continue</button>  </form>  <p>No account? <a href="/auth/register">Sign Up</a></p>  </div>  </div>  <footer>  <p>&copy; 2025 TOEL.id | Test Online TOEFL. All rights reserved.</p>  <p>Developed by:</p>  <p>240411100144 | 240411100181 | 240411100166</p>  </footer>  <script src="/js/utils/auth.js"></script>  </body>  </html> |

* **Code Program CSS**

|  |
| --- |
| body, html {  margin: 0;  padding: 0;  min-height: 100vh;  display: flex;  flex-direction: column;  font-family: 'Segoe UI', Arial, sans-serif;  background: #257cff;  color: #222;  }  /\* HEADER STYLING \*/  .header {  display: flex;  justify-content: space-between;  align-items: center;  padding: 1.2rem 3vw;  background: #fff;  box-shadow: 0 2px 12px rgba(50,50,50,0.07);  position: sticky;  top: 0;  z-index: 100;  }  .brand {  font-weight: 700;  font-size: 1.4rem;  letter-spacing: .03em;  }  .highlight {  color: #257cff;  font-weight: bold;  }  .header nav a {  padding: .55em 1.4em;  border-radius: 1.5em;  border: 1.5px solid #257cff;  background: transparent;  color: #257cff;  font-size: 1rem;  font-weight: 500;  cursor: pointer;  text-decoration: none;  transition: background .15s, color .15s, border-color .15s;  display: inline-block;  }  .header nav a:hover {  background: #184c99;  color: #fff;  border-color: #184c99;  }  /\* LOGIN CONTAINER \*/  .container {  background: #fff;  border-radius: 20px;  box-shadow: 0 2px 32px rgba(60,60,60,0.09);  max-width: 480px; /\* Increased from 350px \*/  width: 90%; /\* Added to ensure responsiveness \*/  margin: 60px auto 0 auto;  padding: 3em 3em; /\* Increased padding \*/  display: flex;  flex-direction: column;  align-items: center;  margin-bottom: 2rem;  }  h1 {  margin-bottom: 1.8em; /\* Increased spacing \*/  color: #257cff;  letter-spacing: .03em;  font-size: 1.8em; /\* Increased font size \*/  font-weight: 700;  }  .log {  width: 100%;  max-width: 420px; /\* Added max-width for form content \*/  margin: 0 auto;  }  form {  display: flex;  flex-direction: column;  gap: 1.5em; /\* Increased gap \*/  }  label {  font-weight: 600;  margin-bottom: 0.4em; /\* Increased spacing \*/  color: #222;  font-size: 1.1em; /\* Added font size \*/  }  input[type="text"],  input[type="password"] {  padding: 0.9em 1.2em; /\* Increased padding \*/  border-radius: 10px; /\* Increased border radius \*/  border: 1.5px solid #257cff;  outline: none;  margin-bottom: 0.5em;  font-size: 1.1em; /\* Increased font size \*/  background: #f5f8ff;  width: 100%;  transition: border-color 0.2s, background 0.2s;  }  input[type="text"]:focus,  input[type="password"]:focus {  border-color: #184c99;  background: #eaf1ff;  }  button[type="submit"] {  margin-top: 1em; /\* Increased margin \*/  background: #257cff;  color: #fff;  border: 1.5px solid #257cff;  border-radius: 12px; /\* Changed to regular border radius \*/  padding: 1em 0; /\* Increased padding \*/  font-size: 1.2em; /\* Increased font size \*/  font-weight: 600;  cursor: pointer;  transition: background 0.15s, border-color 0.15s;  box-shadow: 0 2px 8px rgba(57, 87, 181, 0.08);  width: 100%;  }  button[type="submit"]:hover {  background: #184c99;  color: #fff;  border-color: #184c99;  }  .log p {  margin-top: 1.2em;  text-align: center;  font-size: .98em;  color: #444;  }  .log a {  color: #257cff;  font-weight: 600;  text-decoration: none;  transition: color 0.15s;  }  .log a:hover {  color: #184c99;  text-decoration: underline;  }  footer {  position: relative; /\* Change from fixed to relative \*/  width: 100%;  text-align: center;  padding: 1.5em 0;  background: #fff;  color: #272727;  font-weight: 500;  font-size: .98em;  margin-top: 2rem;  box-shadow: 0 -1px 8px rgba(70,70,70,0.03);  border-radius: 12px 12px 0 0;  }  footer > p {  padding: 0;  margin: 0;  }  @media (max-width: 600px) {  .container {  padding: 2em 1.5em;  max-width: 95vw;  margin-top: 40px;  }    h1 {  font-size: 1.5em;  }    input[type="text"],  input[type="password"] {  font-size: 1em;  padding: 0.8em 1em;  }    button[type="submit"] {  font-size: 1.1em;  }  }  /\* Add animation for container \*/  @keyframes fadeIn {  from {  opacity: 0;  transform: translateY(20px);  }  to {  opacity: 1;  transform: translateY(0);  }  }  .container {  animation: fadeIn 0.5s ease-out;  } |

* **Code JavaScript**

|  |
| --- |
| function handleLogin(event) {  event.preventDefault();    const username = document.getElementById('user').value;  const password = document.getElementById('pw').value;  // Simple validation  if (username && password) {  // Store user data in localStorage  localStorage.setItem('isLoggedIn', 'true');  localStorage.setItem('username', username);  localStorage.setItem('userEmail', ''); // Initialize empty email    // Redirect to dashboard  window.location.href = '/dashboard';  } else {  alert('Please fill in all fields');  }  }  function handleRegister(event) {  event.preventDefault();    const username = document.getElementById('user').value;  const password = document.getElementById('pw').value;  const confirmPassword = document.getElementById('pw2').value;  // Simple validation  if (username && password && confirmPassword) {  if (password !== confirmPassword) {  alert('Passwords do not match');  return;  }  // Store user data in localStorage  localStorage.setItem('isLoggedIn', 'true');  localStorage.setItem('username', username);  localStorage.setItem('userEmail', ''); // Initialize empty email    // Redirect to dashboard  window.location.href = '/dashboard';  } else {  alert('Please fill in all fields');  }  }  function logout() {  localStorage.removeItem('isLoggedIn');  localStorage.removeItem('username');  localStorage.removeItem('userEmail');  localStorage.removeItem('userPhoto');  window.location.href = '/auth/login';  }  function redirectIfNotLoggedIn() {  if (!localStorage.getItem('isLoggedIn')) {  window.location.href = '../../pages/auth/login.html';  }  } |

## **Penjelasan Halaman Login**

* **HTML**

<!DOCTYPE html>

<html lang="id">

Penjelasan :

* <!DOCTYPE html>: Menyatakan bahwa ini adalah dokumen HTML versi 5.
* <html lang="id">: Bahasa dokumen ini adalah **Bahasa Indonesia**.

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Login - TOEL.id</title>

<link rel="stylesheet" href="/css/global.css">

<link rel="stylesheet" href="/css/pages/auth/login.css">

<link href="https://fonts.googleapis.com/css2?family=Poppins:..." rel="stylesheet">

</head>

Penjelasan :

* <meta charset="UTF-8">: Agar semua karakter Unicode (seperti huruf Indonesia) terbaca.
* <meta name="viewport"...>: Responsif di perangkat mobile/tablet.
* <title>: Judul tab browser: **"Login - TOEL.id"**.
* <link rel="stylesheet"...>: Menghubungkan ke file CSS global dan halaman login.
* <link href="...Poppins">: Mengimpor font **Poppins** dari Google Fonts.

1. **Bagian Body (Isi Halaman)**
2. **Header Navigasi**

<header class="header">

<div class="brand">TOEL.id | <span class="highlight">Test Online TOEFL</span></div>

<nav><a href="/" class="btn">Back</a></nav>

</header>

Penjelasan :

* Menampilkan **judul brand** di kiri.
* Tombol navigasi "Back" di kanan yang kembali ke halaman utama /.

1. **Form Login**

<div class="container">

<h1>Log in</h1>

<div class="log">

<form onsubmit="return handleLogin(event)">

<label for="user">Username</label>

<input type="text" name="user" id="user" required>

<label for="pw">Password</label>

<input type="password" name="pw" id="pw" required>

<button type="submit">Continue</button>

</form>

<p>No account? <a href="/auth/register">Sign Up</a></p>

</div>

</div>

Penjelasan :

* <h1>: Judul besar halaman: **Log in**.
* <form>: Formulir login yang menjalankan fungsi JavaScript handleLogin(event) saat submit.
* <label> dan <input>:
* **Username** → input text.
* **Password** → input password.
* <button>: Tombol submit **Continue**.
* **Link Sign Up**: Jika belum punya akun, diarahkan ke /auth/register.

1. **Footer**

<footer>

<p>&copy; 2025 TOEL.id | Test Online TOEFL. All rights reserved.</p>

<p>Developed by:</p>

<p>240411100144 | 240411100181 | 240411100166</p>

</footer>

Penjelsana :

* Menampilkan informasi hak cipta (copyright).
* Mencantumkan nama/NIM pengembang.

1. **JavaScript Login Handler**

**<script src="/js/utils/auth.js"></script>**

Penjelsan :

* Mengimpor file JavaScript eksternal.

Fungsinya kemungkinan untuk mengatur validasi login, autentikasi, dan respon (seperti redirect atau alert error).

**Penjelasan Program CSS**

1. **Reset & Tampilan Umum Body**

body, html {

margin: 0;

padding: 0;

min-height: 100vh;

display: flex;

flex-direction: column;

font-family: 'Segoe UI', Arial, sans-serif;

background: #257cff;

color: #222;

}

Fungsi :

* Reset margin dan padding agar tidak ada spasi default.
* Tampilan penuh setinggi layar.
* Gunakan font modern.
* Latar belakang **biru terang** (#257cff).
* Teks warna gelap (#222).

1. **Header Navigasi**

.header {

display: flex;

justify-content: space-between;

align-items: center;

padding: 1.2rem 3vw;

background: #fff;

box-shadow: 0 2px 12px rgba(50,50,50,0.07);

position: sticky;

top: 0;

z-index: 100;

}

.brand {

font-weight: 700;

font-size: 1.4rem;

letter-spacing: .03em;

}

.highlight {

color: #257cff;

font-weight: bold;

}

.header nav a {

padding: .55em 1.4em;

border-radius: 1.5em;

border: 1.5px solid #257cff;

background: transparent;

color: #257cff;

font-size: 1rem;

font-weight: 500;

cursor: pointer;

text-decoration: none;

transition: background .15s, color .15s, border-color .15s;

display: inline-block;

}

Penjelasan :

* .header: Sticky di atas, dengan padding dan bayangan (shadow) agar terlihat melayang.
* .brand: Teks brand (TOEL.id) dibuat besar dan tebal.
* .highlight: Bagian "Test Online TOEFL" berwarna biru terang.
* nav a: Tombol navigasi "Back" — bentuk oval, garis biru, teks biru.

**Efek Hover**

.header nav a:hover {

background: #184c99;

color: #fff;

border-color: #184c99;

}

**Penjelasan** : Saat dihover, tombol berubah menjadi **biru tua**, teks jadi **putih**.

1. **Container Login Box**

.container {

background: #fff;

border-radius: 20px;

box-shadow: 0 2px 32px rgba(60,60,60,0.09);

max-width: 480px;

width: 90%;

margin: 60px auto 0 auto;

padding: 3em 3em;

display: flex;

flex-direction: column;

align-items: center;

margin-bottom: 2rem;

animation: fadeIn 0.5s ease-out;

}

Fungsi :

* Box putih bersih di tengah layar.
* Sudut membulat (border-radius: 20px).
* Bayangan lembut agar terlihat timbul.
* **Responsif** di layar kecil (max-width + width 90%).
* Animasi fadeIn saat muncul.

1. **Judul Halaman**

h1 {

margin-bottom: 1.8em;

color: #257cff;

font-size: 1.8em;

font-weight: 700;

}

Tampilan :

* Judul **"Log in"** berwarna biru terang, besar dan tebal.

1. **Formulir Login**

form {

display: flex;

flex-direction: column;

gap: 1.5em;

}

label {

font-weight: 600;

font-size: 1.1em;

color: #222;

}

Tampilan :

* Form vertical (flex-direction: column) dan spasi antar elemen.

**Input filed(Username & Password)**

input[type="text"], input[type="password"] {

padding: 0.9em 1.2em;

border-radius: 10px;

border: 1.5px solid #257cff;

font-size: 1.1em;

background: #f5f8ff;

transition: border-color 0.2s, background 0.2s;

}

Tampilan :

* Kotak input lembut biru muda.
* Efek transisi saat difokus (:focus) → garis biru tua & background lebih terang (#eaf1ff).

1. **Tombol Submit**

button[type="submit"] {

background: #257cff;

color: #fff;

border-radius: 12px;

padding: 1em 0;

font-size: 1.2em;

font-weight: 600;

box-shadow: 0 2px 8px rgba(57, 87, 181, 0.08);

width: 100%;

}

Tampilan :

* Tombol penuh lebar.
* Warna biru terang.
* Teks putih, besar dan tebal.
* Ada efek shadow.

**Efek Hover:**

button[type="submit"]:hover {

background: #184c99;

border-color: #184c99;

}

Fungsi :

* Saat dihover, tombol jadi biru tua.

1. **Link Sign Up**

.log p {

text-align: center;

font-size: .98em;

color: #444;

}

.log a {

color: #257cff;

font-weight: 600;

text-decoration: none;

}

.log a:hover {

color: #184c99;

text-decoration: underline;

}

Penjelasan :

* Kalimat: *No account? Sign Up*.
* Link **Sign Up** berwarna biru terang, berubah jadi biru tua saat hover.

1. **Footer**

footer {

background: #fff;

padding: 1.5em 0;

font-size: .98em;

box-shadow: 0 -1px 8px rgba(70,70,70,0.03);

border-radius: 12px 12px 0 0;

}

Tampilan :

* Tampilan bersih, warna putih.
* Di bagian bawah halaman.
* Teks warna gelap.

1. **Responsif di Layar Kecil**

@media (max-width: 600px) {

.container { padding: 2em 1.5em; max-width: 95vw; }

h1 { font-size: 1.5em; }

input, button { font-size: 1em; }

}

Fungsi :

* Saat layar kecil (HP) :
* Padding container diperkecil.
* Font judul dan form lebih kecil agar pas di layar.

1. **Animasi Muncul (Fade In)**

@keyframes fadeIn {

from {

opacity: 0;

transform: translateY(20px);

}

to {

opacity: 1;

transform: translateY(0);

}

}

Fungsi :

* Efek muncul halus dari bawah saat container login tampil.
* **Penjelasan Program JavaSript**

1. **handleLogin(event)**

function handleLogin(event) {

event.preventDefault();

const username = document.getElementById('user').value;

const password = document.getElementById('pw').value;

if (username && password) {

localStorage.setItem('isLoggedIn', 'true');

localStorage.setItem('username', username);

localStorage.setItem('userEmail', '');

window.location.href = '/dashboard';

} else {

alert('Please fill in all fields');

}

}

**Penjelasan :**

* **event.preventDefault()**: Mencegah form melakukan submit default (agar tidak refresh halaman).
* Mengambil nilai **username** dan **password** dari input.
* Jika keduanya terisi:
* Simpan status login ke localStorage:
* isLoggedIn = 'true'
* username = (input dari user)
* userEmail = '' (kosong untuk awal)
* Redirect ke halaman /dashboard.
* Jika kosong → tampilkan alert: **"Please fill in all fields"**.

1. **handleRegister(event)**

function handleRegister(event) {

event.preventDefault();

const username = document.getElementById('user').value;

const password = document.getElementById('pw').value;

const confirmPassword = document.getElementById('pw2').value;

if (username && password && confirmPassword) {

if (password !== confirmPassword) {

alert('Passwords do not match');

return;

}

localStorage.setItem('isLoggedIn', 'true');

localStorage.setItem('username', username);

localStorage.setItem('userEmail', '');

window.location.href = '/dashboard';

} else {

alert('Please fill in all fields');

}

}

**Penjelasan :**

* Sama seperti handleLogin, tapi:
* Memeriksa tambahan input confirmPassword (id="pw2").
* Jika semua terisi dan password cocok:
* Simpan status login ke localStorage.
* Redirect ke /dashboard.
* Jika password tidak cocok → tampilkan alert: **"Passwords do not match"**.

1. **logout()**

function logout() {

localStorage.removeItem('isLoggedIn');

localStorage.removeItem('username');

localStorage.removeItem('userEmail');

localStorage.removeItem('userPhoto');

window.location.href = '/auth/login';

}

**Penjelasan :**

* Menghapus semua data terkait user dari localStorage (logout).
* Mengarahkan kembali user ke halaman login (/auth/login).

1. **redirectIfNotLoggedIn()**

function redirectIfNotLoggedIn() {

if (!localStorage.getItem('isLoggedIn')) {

window.location.href = '../../pages/auth/login.html';

}

}

**Penjelasan:**

* Mengecek apakah user **sudah login**.
* Jika belum (isLoggedIn tidak ada di localStorage) → redirect ke halaman login.
* Digunakan di halaman yang hanya boleh diakses jika user login (misalnya: dashboard).

## **Hasil Running Login**

## **Halaman Register TOEFL**

* **Code Program HTML**

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Register - TOEL.id</title>  <link rel="stylesheet" href="/css/global.css">  <link rel="stylesheet" href="/css/pages/auth/register.css">  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap" rel="stylesheet">  </head>  <body>  <header class="header">  <div class="brand">TOEL.id | <span class="highlight">Test Online TOEFL</span></div>  <nav><a href="/" class="btn">Back</a></nav>  </header>  <div class="container">  <h1>Create account</h1>  <div class="log">  <form onsubmit="return handleRegister(event)">  <label for="user">Username</label>  <input type="text" name="user" id="user" autocomplete="username" required>  <label for="pw">Password</label>  <input type="password" name="pw" id="pw" autocomplete="new-password" required>  <label for="pw2">Confirm Password</label>  <input type="password" name="pw2" id="pw2" autocomplete="new-password" required>  <button type="submit">Register</button>  </form>  <p>Already have an account? <a href="/auth/login">Log in</a></p>  </div>  </div>  <footer>  <p>&copy; 2025 TOEL.id | Test Online TOEFL. All rights reserved.</p>  <p>Developed by:</p>  <p>240411100144 | 240411100181 | 240411100166</p>  </footer>  <script src="/js/utils/auth.js"></script>  </body>  </html> |

## **Penjelasan Program Register**

1. **Struktur Dokumen HTML**

<!DOCTYPE html>

<html lang="id">

**Penjelasan :**

* <!DOCTYPE html> → Menyatakan bahwa ini adalah dokumen HTML5.
* <html lang="id"> → Bahasa utama situs adalah Bahasa Indonesia (baik untuk SEO dan pembaca layar).

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Register - TOEL.id</title>

<link rel="stylesheet" href="/css/global.css">

<link rel="stylesheet" href="/css/pages/auth/register.css">

<link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap" rel="stylesheet">

</head>

**Penjelasan**:

* <meta charset="UTF-8"> → Agar teks (termasuk karakter Latin/Indonesia) bisa ditampilkan dengan benar.
* <meta name="viewport"...> → Membuat layout responsif di HP/tablet.
* <title> → Judul tab browser saat membuka halaman.
* <link rel="stylesheet"...> → Menghubungkan CSS eksternal:
* global.css → Gaya umum seluruh halaman.
* register.css → Gaya khusus halaman registrasi.
* Google Fonts → Menggunakan font *Poppins*.

1. **Bagian Body**
2. **Header Navigasi**

<header class="header">

<div class="brand">TOEL.id | <span class="highlight">Test Online TOEFL</span></div>

<nav><a href="/" class="btn">Back</a></nav>

</header>

**Penjelasan**:

* + Menampilkan logo dan nama aplikasi di kiri.
  + Tombol navigasi **Back** di kanan, untuk kembali ke halaman utama.

1. **Halaman Registrasi**

<div class="container">

<h1>Create account</h1>

<div class="log">

<form onsubmit="return handleRegister(event)">

...

</form>

<p>Already have an account? <a href="/auth/login">Log in</a></p>

</div>

</div>

**Penjelasan**:

* .container → Elemen pembungkus utama (umumnya diberi padding dan batas lebar).
* Judul: Create account.
* Form registrasi berisi:
* **Username** (<input type="text">)
* **Password** (<input type="password">)
* **Konfirmasi Password**
* Tombol submit: Register
* Teks bawah: Jika sudah punya akun → link ke login.

Form akan ditangani oleh fungsi JavaScript handleRegister(event) yang ada di file eksternal /js/utils/auth.js.

1. **Footer**

<footer>

<p>&copy; 2025 TOEL.id | Test Online TOEFL. All rights reserved.</p>

<p>Developed by:</p>

<p>240411100144 | 240411100181 | 240411100166</p>

</footer>

**Penjelasan**:

* Menampilkan informasi hak cipta tahun 2025.
* Menampilkan daftar NIM pengembang situs (tanpa hyperlink seperti di file sebelumnya).

1. **Script JavaScript**

<script src="/js/utils/auth.js"></script>

**Penjelasan**:

* Menghubungkan file JavaScript eksternal yang menangani proses registrasi (handleRegister).
* Biasanya berisi validasi input, pengecekan password, dan pengiriman data ke server.
* **Code Program CSS**

|  |
| --- |
| body, html {  margin: 0;  padding: 0;  min-height: 100vh;  font-family: 'Segoe UI', Arial, sans-serif;  background: #257cff;  color: #222;  }  /\* HEADER STYLING \*/  .header {  display: flex;  justify-content: space-between;  align-items: center;  padding: 1.2rem 3vw;  background: #fff;  box-shadow: 0 2px 12px rgba(50,50,50,0.07);  position: sticky;  top: 0;  z-index: 100;  }  .brand {  font-weight: 700;  font-size: 1.4rem;  letter-spacing: .03em;  }  .highlight {  color: #257cff;  font-weight: bold;  }  .header nav a {  padding: .55em 1.4em;  border-radius: 1.5em;  border: 1.5px solid #257cff;  background: transparent;  color: #257cff;  font-size: 1rem;  font-weight: 500;  cursor: pointer;  text-decoration: none;  transition: background .15s, color .15s, border-color .15s;  display: inline-block;  }  .header nav a:hover {  background: #184c99;  color: #fff;  border-color: #184c99;  }  /\* REGISTER CONTAINER \*/  .container {  background: #fff;  border-radius: 20px;  box-shadow: 0 2px 32px rgba(60,60,60,0.09);  max-width: 500px; /\* Increased from 350px \*/  width: 80%; /\* Added to ensure responsiveness \*/  margin: 60px auto 0 auto;  padding: 3em 3em; /\* Increased padding \*/  display: flex;  flex-direction: column;  align-items: center;  margin-bottom: 2rem;  }  h1 {  margin-bottom: 1.5em;  color: #257cff;  letter-spacing: .03em;  font-size: 1.45em;  font-weight: 700;  }  .log {  width: 100%;  }  form {  display: flex;  flex-direction: column;  gap: 1.1em;  }  label {  font-weight: 600;  margin-bottom: 0.2em;  color: #222;  }  input[type="text"], input[type="password"] {  padding: 0.7em 1em;  border-radius: 8px;  border: 1.5px solid #257cff;  outline: none;  margin-bottom: 0.3em;  font-size: 1em;  background: #f5f8ff;  transition: border-color 0.2s, background 0.2s;  }  input[type="text"]:focus,  input[type="password"]:focus {  border-color: #184c99;  background: #eaf1ff;  }  button[type="submit"] {  margin-top: 0.5em;  background: #257cff;  color: #fff;  border: 1.5px solid #257cff;  border-radius: 1.5em;  padding: 0.8em 0;  font-size: 1.08em;  font-weight: 600;  cursor: pointer;  transition: background 0.15s, border-color 0.15s;  box-shadow: 0 2px 8px rgba(57, 87, 181, 0.08);  }  button[type="submit"]:hover {  background: #184c99;  color: #fff;  border-color: #184c99;  }  .log p {  margin-top: 1.2em;  text-align: center;  font-size: .98em;  color: #444;  }  .log a {  color: #257cff;  font-weight: 600;  text-decoration: none;  transition: color 0.15s;  }  .log a:hover {  color: #184c99;  text-decoration: underline;  }  footer {  position: relative; /\* Change from fixed to relative \*/  width: 100%;  text-align: center;  padding: 1.5em 0;  background: #fff;  color: #272727;  font-weight: 500;  font-size: .98em;  margin-top: 2rem;  box-shadow: 0 -1px 8px rgba(70,70,70,0.03);  border-radius: 12px 12px 0 0;  }  footer > p {  padding: 0;  margin: 0;  }  @media (max-width: 600px) {  .container {  padding: 1.5em 0.6em;  max-width: 95vw;  }  h1 {  font-size: 1.15em;  }  .header {  flex-direction: column;  align-items: flex-start;  gap: .6em;  padding: 1em 4vw;  }  .brand {  font-size: 1.1rem;  }  } |

## **Penjelasan Program Register**

1. **Global Style**

body, html {

margin: 0;

padding: 0;

min-height: 100vh;

font-family: 'Segoe UI', Arial, sans-serif;

background: #257cff;

color: #222;

}

**Penjelasan**:

* **Reset** margin dan padding agar layout konsisten.
* **Tinggi minimum 100% layar**.
* **Font:** Menggunakan *Segoe UI* atau fallback Arial.
* **Warna latar belakang** biru tua (#257cff).
* **Warna teks utama** abu gelap (#222).

1. **Header**

.header {

display: flex;

justify-content: space-between;

align-items: center;

padding: 1.2rem 3vw;

background: #fff;

box-shadow: 0 2px 12px rgba(50,50,50,0.07);

position: sticky;

top: 0;

z-index: 100;

}

.brand {

font-weight: 700;

font-size: 1.4rem;

letter-spacing: .03em;

}

.highlight {

color: #257cff;

font-weight: bold;

}

.header nav a {

padding: .55em 1.4em;

border-radius: 1.5em;

border: 1.5px solid #257cff;

background: transparent;

color: #257cff;

font-size: 1rem;

font-weight: 500;

cursor: pointer;

text-decoration: none;

transition: background .15s, color .15s, border-color .15s;

display: inline-block;

}

.header nav a:hover {

background: #184c99;

color: #fff;

border-color: #184c99;

}

**Penjelasan**:

* .header → Header sticky di atas saat scroll, dengan background putih dan shadow.
* .brand → Nama situs besar, tebal, dan rapi.
* .highlight → Memberi warna biru pada teks "Test Online TOEFL".
* nav a → Gaya tombol "Back":
* Border biru solid
* Hover akan menjadi latar biru gelap dan teks putih.

1. **Register Container (Kotak Formulir)**

.container {

background: #fff;

border-radius: 20px;

box-shadow: ...;

max-width: 500px;

width: 80%;

margin: 60px auto;

padding: 3em;

display: flex;

flex-direction: column;

align-items: center;

}

**Penjelasan**:

* Kotak putih di tengah dengan sudut membulat dan bayangan halus.
* Ukuran maksimal 500px dan lebar fleksibel (80%) agar responsif.
* Margin atas 60px, bawah 2rem.
* Elemen-elemen diatur vertikal secara rapi.

1. **Judul Formulir**

h1 {

margin-bottom: 1.5em;

color: #257cff;

font-size: 1.45em;

font-weight: 700;

}

**Penjelasan**:

* Judul "Create Account" terlihat menonjol.
* Warna biru merek TOEL.id dan huruf kapital tebal.

1. **Form dan Input**

form {

display: flex;

flex-direction: column;

gap: 1.1em;

}

label {

font-weight: 600;

margin-bottom: 0.2em;

color: #222;

}

input[type="text"], input[type="password"] {

padding: 0.7em 1em;

border-radius: 8px;

border: 1.5px solid #257cff;

outline: none;

margin-bottom: 0.3em;

font-size: 1em;

background: #f5f8ff;

transition: border-color 0.2s, background 0.2s;

}

input[type="text"]:focus,

input[type="password"]:focus {

border-color: #184c99;

background: #eaf1ff;

}

**Penjelasan**:

* Form disusun vertikal dengan jarak antar elemen (gap).
* Label huruf tebal.
* Input:
* Padding nyaman
* Border biru
* Latar belakang biru pucat
* Fokus: border menjadi biru lebih gelap & latar sedikit berubah.

1. **Tombol Register**

button[type="submit"] {

margin-top: 0.5em;

background: #257cff;

color: #fff;

border: 1.5px solid #257cff;

border-radius: 1.5em;

padding: 0.8em 0;

font-size: 1.08em;

font-weight: 600;

cursor: pointer;

transition: background 0.15s, border-color 0.15s;

box-shadow: 0 2px 8px rgba(57, 87, 181, 0.08);

}

button[type="submit"]:hover {

background: #184c99;

color: #fff;

border-color: #184c99;

}

**Penjelasan** :

* Tombol biru solid dengan teks putih.
* Membulat (pill shape).
* Bayangan halus untuk efek kedalaman.
* Hover: warna biru lebih gelap.

1. **Link Login**

.log p {

text-align: center;

font-size: .98em;

color: #444;

}

.log a {

color: #257cff;

font-weight: 600;

text-decoration: none;

}

.log a:hover {

color: #184c99;

text-decoration: underline;

}

**Penjelasan**:

* Teks "Already have an account?" berada di tengah.
* Link ke login diberi warna biru dan tebal.
* Hover: berubah jadi underline dan biru lebih gelap.

1. **Footer**

footer {

position: relative;

background: #fff;

text-align: center;

padding: 1.5em 0;

margin-top: 2rem;

font-weight: 500;

box-shadow: ...;

border-radius: 12px 12px 0 0;

}

**Penjelasan**:

* Footer memiliki latar putih dan bayangan lembut dari atas.
* Diletakkan di bagian bawah, **tidak fixed**, agar tidak menutupi isi.
* Sudut atas membulat.

1. **Responsive Design (Media Query)**

@media (max-width: 600px) {

.container {

padding: 1.5em 0.6em;

max-width: 95vw;

}

h1 {

font-size: 1.15em;

}

.header {

flex-direction: column;

align-items: flex-start;

gap: .6em;

padding: 1em 4vw;

}

.brand {

font-size: 1.1rem;

}

}

**Penjelasan**:

* Tampilan layar kecil (≤600px):
* Container: padding lebih kecil & hampir penuh lebar layar.
* Judul lebih kecil.
* Header disusun vertikal (bukan horizontal).
* Brand dikecilkan.
* **Code Program JavaScript**

|  |
| --- |
| function handleLogin(event) {  event.preventDefault();    const username = document.getElementById('user').value;  const password = document.getElementById('pw').value;  // Simple validation  if (username && password) {  // Store user data in localStorage  localStorage.setItem('isLoggedIn', 'true');  localStorage.setItem('username', username);  localStorage.setItem('userEmail', ''); // Initialize empty email    // Redirect to dashboard  window.location.href = '/dashboard';  } else {  alert('Please fill in all fields');  }  }  function handleRegister(event) {  event.preventDefault();    const username = document.getElementById('user').value;  const password = document.getElementById('pw').value;  const confirmPassword = document.getElementById('pw2').value;  // Simple validation  if (username && password && confirmPassword) {  if (password !== confirmPassword) {  alert('Passwords do not match');  return;  }  // Store user data in localStorage  localStorage.setItem('isLoggedIn', 'true');  localStorage.setItem('username', username);  localStorage.setItem('userEmail', ''); // Initialize empty email    // Redirect to dashboard  window.location.href = '/dashboard';  } else {  alert('Please fill in all fields');  }  }  function logout() {  localStorage.removeItem('isLoggedIn');  localStorage.removeItem('username');  localStorage.removeItem('userEmail');  localStorage.removeItem('userPhoto');  window.location.href = '/auth/login';  }  function redirectIfNotLoggedIn() {  if (!localStorage.getItem('isLoggedIn')) {  window.location.href = '../../pages/auth/login.html';  }  } |

* **Penjelasan Program**

1. **handleLogin(event)**

function handleLogin(event) {

event.preventDefault();

const username = document.getElementById('user').value;

const password = document.getElementById('pw').value;

if (username && password) {

localStorage.setItem('isLoggedIn', 'true');

localStorage.setItem('username', username);

localStorage.setItem('userEmail', '');

window.location.href = '/dashboard';

} else {

alert('Please fill in all fields');

}

}

**Penjelasan :**

* **event.preventDefault()**: Mencegah form melakukan submit default (agar tidak refresh halaman).
* Mengambil nilai **username** dan **password** dari input.
* Jika keduanya terisi:
* Simpan status login ke localStorage:
* isLoggedIn = 'true'
* username = (input dari user)
* userEmail = '' (kosong untuk awal)
* Redirect ke halaman /dashboard.
* Jika kosong → tampilkan alert: **"Please fill in all fields"**.

1. **handleRegister(event)**

function handleRegister(event) {

event.preventDefault();

const username = document.getElementById('user').value;

const password = document.getElementById('pw').value;

const confirmPassword = document.getElementById('pw2').value;

if (username && password && confirmPassword) {

if (password !== confirmPassword) {

alert('Passwords do not match');

return;

}

localStorage.setItem('isLoggedIn', 'true');

localStorage.setItem('username', username);

localStorage.setItem('userEmail', '');

window.location.href = '/dashboard';

} else {

alert('Please fill in all fields');

}

}

**Penjelasan :**

* Sama seperti handleLogin, tapi:
* Memeriksa tambahan input confirmPassword (id="pw2").
* Jika semua terisi dan password cocok:
* Simpan status login ke localStorage.
* Redirect ke /dashboard.
* Jika password tidak cocok → tampilkan alert: **"Passwords do not match"**.

1. **logout()**

function logout() {

localStorage.removeItem('isLoggedIn');

localStorage.removeItem('username');

localStorage.removeItem('userEmail');

localStorage.removeItem('userPhoto');

window.location.href = '/auth/login';

}

**Penjelasan :**

* Menghapus semua data terkait user dari localStorage (logout).
* Mengarahkan kembali user ke halaman login (/auth/login).

1. **redirectIfNotLoggedIn()**

function redirectIfNotLoggedIn() {

if (!localStorage.getItem('isLoggedIn')) {

window.location.href = '../../pages/auth/login.html';

}

}

**Penjelasan:**

* Mengecek apakah user **sudah login**.
* Jika belum (isLoggedIn tidak ada di localStorage) → redirect ke halaman login.
* Digunakan di halaman yang hanya boleh diakses jika user login (misalnya: dashboard).

## **Hasil Running Register**

# **Halaman 404(Not Found)**

## **Source Code**

* **Code Program HTML**

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>404 - Page Not Found - TOEL.id</title>  <link rel="stylesheet" href="/css/global.css">  <link rel="stylesheet" href="/css/pages/404.css">  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap" rel="stylesheet">  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">  </head>  <body>  <div class="error-container">  <div class="error-content">  <div class="error-icon">  <i class="fas fa-file-circle-question"></i>  </div>  <h1>404</h1>  <h2>Oops! Halaman Tidak Ditemukan</h2>  <p>Maaf, halaman yang Anda cari tidak dapat ditemukan.</p>  <div class="action-buttons">  <a href="/" class="btn btn-primary">  <i class="fas fa-home"></i> Kembali ke Beranda  </a>  <a href="javascript:history.back()" class="btn btn-secondary">  <i class="fas fa-arrow-left"></i> Kembali ke Halaman Sebelumnya  </a>  </div>  </div>  </div>  </body>  </html> |

* **Penjelasan Program**

1. **Struktur Dasar Dokumen HTML**

<!DOCTYPE html>

<html lang="id">

**Penjelasan**:

* <!DOCTYPE html> → Menyatakan bahwa ini adalah dokumen HTML5.
* <html lang="id"> → Konten menggunakan Bahasa Indonesia (baik untuk SEO dan screen reader).

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>404 - Page Not Found - TOEL.id</title>

<link rel="stylesheet" href="/css/global.css">

<link rel="stylesheet" href="/css/pages/404.css">

<link href="https://fonts.googleapis.com/css2?family=Poppins..." rel="stylesheet">

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/...">

</head>

**Penjelasan**:

* <meta charset="UTF-8"> → Agar teks seperti "Oops!" & "Maaf" bisa tampil dengan benar.
* <meta name="viewport"> → Agar tampilan responsif di semua perangkat.
* <title> → Judul tab browser, menunjukkan ini adalah halaman error 404.
* <link rel="stylesheet">:
* **global.css**: Gaya umum untuk semua halaman.
* **404.css**: Gaya khusus halaman error 404.
* **Google Fonts (Poppins)**: Font utama tampilan halaman.
* **Font Awesome**: Untuk ikon seperti rumah (fa-home) & tanda tanya (fa-file-circle-question).

1. **Bagian Body**

<div class="error-container">

<div class="error-content">

<div class="error-icon">

<i class="fas fa-file-circle-question"></i>

</div>

<h1>404</h1>

<h2>Oops! Halaman Tidak Ditemukan</h2>

<p>Maaf, halaman yang Anda cari tidak dapat ditemukan.</p>

<div class="action-buttons">

<a href="/" class="btn btn-primary">

<i class="fas fa-home"></i> Kembali ke Beranda

</a>

<a href="javascript:history.back()" class="btn btn-secondary">

<i class="fas fa-arrow-left"></i> Kembali ke Halaman Sebelumnya

</a>

</div>

</div>

</div>  
**Penjelasan**:

* .error-container → Elemen pembungkus utama halaman error.
* .error-content → Bagian isi error (centered box).
* .error-icon → Menampilkan ikon dari Font Awesome: fa-file-circle-question (dokumen tanda tanya).
* <h1>404</h1> → Kode status HTTP "Not Found".
* <h2> dan <p> → Pesan informasi kepada pengguna bahwa halaman tidak tersedia.
* .action-buttons → Tombol navigasi untuk membantu pengguna kembali:

|  |  |
| --- | --- |
| **Tombol** | **Fungsi** |
| Kembali ke Beranda | Arahkan ke / (halaman utama situs). |
| Kembali ke Halaman Sebelumnya | Menggunakan history.back() → kembali ke halaman terakhir dikunjungi. |

* **Code Program CSS**

|  |
| --- |
| .error-container {  min-height: 100vh;  display: flex;  align-items: center;  justify-content: center;  background: linear-gradient(135deg, var(--primary-color), var(--secondary-color));  padding: 2rem;  }  .error-content {  background: rgba(255, 255, 255, 0.95);  backdrop-filter: blur(10px);  padding: 3rem;  border-radius: 20px;  text-align: center;  max-width: 500px;  width: 90%;  box-shadow: 0 10px 30px rgba(0,0,0,0.2);  animation: slideUp 0.5s ease-out;  }  .error-icon {  font-size: 5rem;  color: var(--primary-color);  margin-bottom: 1rem;  animation: float 3s ease-in-out infinite;  }  .error-content h1 {  font-size: 6rem;  font-weight: 700;  color: var(--primary-color);  margin: 0;  line-height: 1;  text-shadow: 2px 2px 4px rgba(0,0,0,0.1);  }  .error-content h2 {  font-size: 1.8rem;  color: var(--text-color);  margin: 1rem 0;  }  .error-content p {  color: var(--text-color);  opacity: 0.8;  margin-bottom: 2rem;  }  .action-buttons {  display: flex;  gap: 1rem;  justify-content: center;  flex-wrap: wrap;  }  .btn {  padding: 0.8rem 1.5rem;  border-radius: 8px;  font-weight: 500;  transition: all 0.3s ease;  display: flex;  align-items: center;  gap: 0.5rem;  }  .btn-primary {  background: var(--primary-color);  color: white;  }  .btn-secondary {  background: transparent;  border: 2px solid var(--primary-color);  color: var(--primary-color);  }  .btn:hover {  transform: translateY(-2px);  box-shadow: 0 4px 12px rgba(0,0,0,0.15);  }  @keyframes slideUp {  from {  opacity: 0;  transform: translateY(20px);  }  to {  opacity: 1;  transform: translateY(0);  }  }  @keyframes float {  0%, 100% { transform: translateY(0); }  50% { transform: translateY(-10px); }  }  @media (max-width: 480px) {  .error-content {  padding: 2rem;  }  .error-content h1 {  font-size: 4rem;  }  .error-content h2 {  font-size: 1.4rem;  }  .action-buttons {  flex-direction: column;  }  .btn {  width: 100%;  justify-content: center;  }  } |

* **Penjelasan Program**

1. **.error-container**

.error-container {

min-height: 100vh;

display: flex;

align-items: center;

justify-content: center;

background: linear-gradient(135deg, var(--primary-color), var(--secondary-color));

padding: 2rem;

}

**Fungsi**:

* Membuat kontainer yang **penuh satu layar** (100vh).
* **Tata letak tengah (center)** secara vertikal dan horizontal.
* **Latar belakang gradasi warna** (biru ke kuning dari --primary-color ke --secondary-color).
* Padding 2rem agar tidak terlalu mepet di sisi layar.

1. **.error-content**

.error-content {

background: rgba(255, 255, 255, 0.95);

backdrop-filter: blur(10px);

padding: 3rem;

border-radius: 20px;

text-align: center;

max-width: 500px;

width: 90%;

box-shadow: 0 10px 30px rgba(0,0,0,0.2);

animation: slideUp 0.5s ease-out;

}

**Fungsi**:

* **Card putih transparan** yang dibuat semi blur (dengan backdrop-filter).
* Sudut membulat 20px dan padding besar (3rem).
* **Shadow besar** untuk efek mengambang.
* Maksimal lebar 500px agar tetap bagus di layar besar.
* **Animasi muncul dari bawah (slideUp)** saat halaman diload.

1. **.error-icon**

.error-icon {

font-size: 5rem;

color: var(--primary-color);

margin-bottom: 1rem;

animation: float 3s ease-in-out infinite;

}

**Fungsi**:

* Ikon besar (Font Awesome) tampil sebagai hiasan utama.
* Warna sesuai warna utama situs (--primary-color).
* Animasi float: ikon terlihat **mengambang naik turun secara halus**.

1. **Judul & Teks Error**
2. **h1 - Kode 404**

.error-content h1 {

font-size: 6rem;

font-weight: 700;

color: var(--primary-color);

margin: 0;

line-height: 1;

text-shadow: 2px 2px 4px rgba(0,0,0,0.1);

}

**Fungsi**:

* Huruf **sangat besar (6rem)** untuk menonjolkan kode 404.
* Berwarna biru TOEL.id, dengan bayangan tipis agar lebih jelas.

1. **h2 - Judul Tambahan**

.error-content h2 {

font-size: 1.8rem;

color: var(--text-color);

margin: 1rem 0;

}

**Fungsi**:

* Ukuran besar menengah, warna teks umum (--text-color).

1. **p – Penjelasan**

.error-content p {

color: var(--text-color);

opacity: 0.8;

margin-bottom: 2rem;

}

**Fungsi**:

* Warna teks sedikit lebih transparan (opacity 0.8) agar tidak terlalu mencolok.

1. **Tombol Aksi (.action-buttons)**

.action-buttons {

display: flex;

gap: 1rem;

justify-content: center;

flex-wrap: wrap;

}

**Fungsi**:

* Menyusun tombol **secara horizontal** (wrap jika sempit).
* Ada jarak antar tombol.

1. **Tombol .btn, .btn-primary, .btn-secondary**

.btn {

padding: 0.8rem 1.5rem;

border-radius: 8px;

font-weight: 500;

transition: all 0.3s ease;

display: flex;

align-items: center;

gap: 0.5rem;

}

.btn-primary {

background: var(--primary-color);

color: white;

}

.btn-secondary {

background: transparent;

border: 2px solid var(--primary-color);

color: var(--primary-color);

}

.btn:hover {

transform: translateY(-2px);

box-shadow: 0 4px 12px rgba(0,0,0,0.15);

}

**Penjelasan**:

* **.btn**
* Tombol dasar:
* Padding besar dan nyaman.
* Flex untuk ikon dan teks berdampingan.
* Transisi halus saat hover.
* **.btn-primary**
* **Tombol utama**: biru dengan teks putih.
* **.btn-secondary**
* **Tombol kedua**: transparan dengan border biru.
* Menyerupai tombol “kembali” atau pilihan kedua.
* **.btn:hover**
* Hover effect:
* Sedikit naik (translateY) dan shadow bertambah → memberi efek interaktif.

1. **Animasi**

@keyframes slideUp {

from {

opacity: 0;

transform: translateY(20px);

}

to {

opacity: 1;

transform: translateY(0);

}

}

@keyframes float {

0%, 100% { transform: translateY(0); }

50% { transform: translateY(-10px); }

}

**Penjelasan**:

* **slideUp**: membuat .error-content muncul dari bawah dengan fade in.
* **float**: membuat ikon .error-icon mengambang naik turun terus-menerus.

1. **Responsif (Mobile)**

@media (max-width: 480px) {

.error-content {

padding: 2rem;

}

.error-content h1 {

font-size: 4rem;

}

.error-content h2 {

font-size: 1.4rem;

}

.action-buttons {

flex-direction: column;

}

.btn {

width: 100%;

justify-content: center;

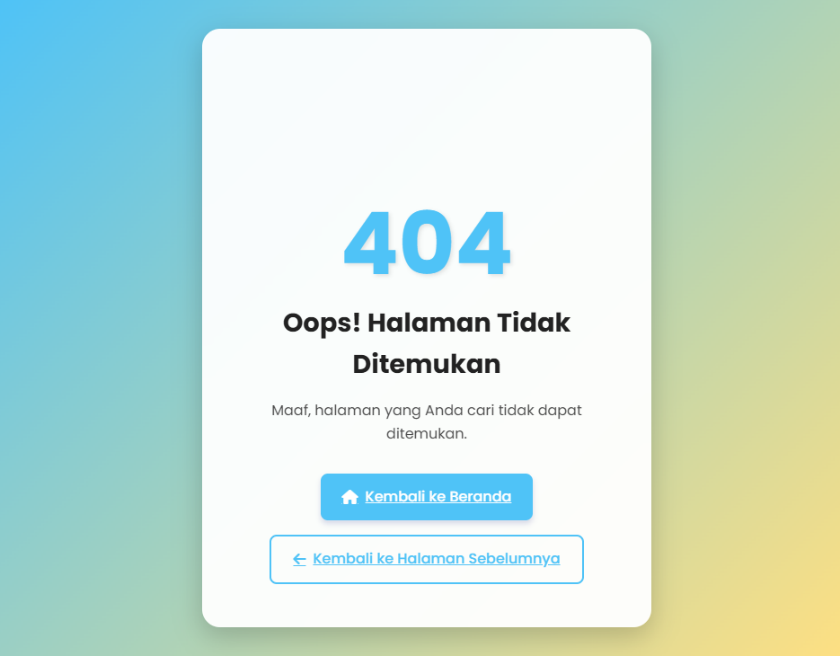
}

}

**Fungsi**:

* Untuk layar kecil (≤480px):
* Ukuran font h1 dan h2 diperkecil.
* Tombol ditumpuk vertikal.
* Lebar tombol 100% agar mudah ditekan di HP.

## **Hasil Running 404**

**Halaman Dashboard TOEFL**

**Source Code Dashboard**

* **Code Program HTML dan JavaScript Internal**

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Dashboard - TOEL.id</title>  <link rel="stylesheet" href="/css/global.css">  <link rel="stylesheet" href="/css/components/sidebar.css">  <link rel="stylesheet" href="/css/pages/dashboard/dashboard.css">  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap" rel="stylesheet">  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">  </head>  <body>  <div class="dashboard-container">  <!-- Sidebar -->  <aside class="sidebar">  <div class="logo">  <!-- Remove image, keep text only -->  <span>TOEL.id</span>  </div>  <nav class="menu">  <a href="/dashboard" class="active">  <i class="fas fa-home"></i>  <span>Dashboard</span>  </a>  <a href="/dashboard/riwayat-tes">  <i class="fas fa-history"></i>  <span>Riwayat Tes</span>  </a>  <a href="/dashboard/profile-edit">  <i class="fas fa-user"></i>  <span>Edit Profil</span>  </a>  <a href="/test">  <i class="fas fa-edit"></i>  <span>Mulai Tes</span>  </a>  </nav>  <button class="logout-btn" onclick="logout()">  <i class="fas fa-sign-out-alt"></i>  <span>Keluar</span>  </button>  </aside>  <!-- Main Content -->  <main class="main-content">  <!-- Profile Header -->  <div class="profile-header">  <div class="profile-photo">  <img class="user-photo" id="userPhoto" src="/assets/images/guest-profile.png">  <div class="default-photo" style="display:none;">  <i class="fas fa-user"></i>  </div>  </div>  <h1>Halo, <span id="userName">User</span>!</h1>  <p>Selamat datang di TOEL.id</p>  </div>  <!-- Quick Stats -->  <div class="stats-container">  <div class="stat-card">  <h3>Skor Terakhir</h3>  <div class="score">  <span id="lastScore">0</span>  <small>poin</small>  </div>  <!-- Update Stats container links -->  <a href="riwayat-tes.html" class="view-more">  Lihat Riwayat <i class="fas fa-arrow-right"></i>  </a>  </div>  <div class="stat-card">  <h3>Peringkat</h3>  <div class="rank">  <span id="userRank">1</span>  <small>dari <span id="totalUsers">100</span> peserta</small>  </div>  <a href="/dashboard/leaderboard" class="view-more">  Lihat Leaderboard <i class="fas fa-arrow-right"></i>  </a>  </div>  </div>  <!-- Quick Actions -->  <div class="quick-actions">  <h2>Aksi Cepat</h2>  <div class="action-buttons">  <!-- Update Quick Actions section hrefs -->  <a href="/test/mulai" class="action-btn primary">  <i class="fas fa-edit"></i>  Mulai Tes TOEFL  </a>  <a href="/dashboard/profile-edit" class="action-btn secondary">  <i class="fas fa-user-edit"></i>  Edit Profil  </a>  <a href="/dashboard/riwayat-tes" class="action-btn secondary">  <i class="fas fa-certificate"></i>  Riwayat & Sertifikat  </a>  </div>  </div>  </main>  </div>  <script src="/js/utils/auth.js"></script>  <script src="/js/pages/dashboard/dashboard.js"></script>  <script>  // Ambil riwayat tes dari localStorage  const riwayat = JSON.parse(localStorage.getItem('toeflHistory') || '[]');  // Ambil skor terakhir (Full test jika ada, jika tidak, ambil section terakhir)  let lastScore = '-';  if (riwayat.length > 0) {  // Cari entry Full test terakhir, jika tidak ada ambil entry pertama  const fullTest = riwayat.find(r => r.type === 'Full');  if (fullTest) {  lastScore = fullTest.skorITP;  } else {  // Ambil skor section terakhir  lastScore = riwayat[0].skor || '-';  }  }  document.getElementById('lastScore').textContent = lastScore;  // Peringkat (contoh: jika ada leaderboard, bisa diambil dari server)  // Untuk demo, tampilkan "-" jika tidak ada data  document.getElementById('userRank').textContent = '1';  document.getElementById('totalUsers').textContent = '100';  // Nama user (ambil dari localStorage atau auth)  const userName = localStorage.getItem('userName') || 'User';  document.getElementById('userName').textContent = userName;  </script>  </body>  </html> |

# **Halaman Dashboard User**

## **Source Code dan Penjelasan Dashboard**

* **Penjelasan Program**

1. **Struktur Dokumen HTML**

<!DOCTYPE html>

<html lang="id">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Dashboard - TOEL.id</title>

<link rel="stylesheet" href="/css/global.css">

<link rel="stylesheet" href="/css/components/sidebar.css">

<link rel="stylesheet" href="/css/pages/dashboard/dashboard.css">

<link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap" rel="stylesheet">

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">

</head>

**Penjelasan**:

* <!DOCTYPE html>: Menandakan dokumen ini adalah HTML5.
* lang="id": Bahasa halaman adalah Bahasa Indonesia (membantu SEO dan aksesibilitas).
* meta charset: Untuk karakter Indonesia.
* viewport: Agar tampilan responsif di perangkat mobile.
* title: Judul di tab browser.
* link rel="stylesheet": Menghubungkan file CSS global, sidebar, dan khusus dashboard.
* Font Poppins dan ikon Font Awesome dimuat dari CDN.

1. **Bagian Body**
2. **Container Utama**

<div class="dashboard-container">...</div>

**Penjelasan**:

* Pembungkus seluruh tampilan dashboard (sidebar + main content).

1. **Sidebar Navigasi**

<aside class="sidebar">

<div class="logo">

<!-- Remove image, keep text only -->

<span>TOEL.id</span>

</div>

<nav class="menu">

<a href="/dashboard" class="active">

<i class="fas fa-home"></i>

<span>Dashboard</span>

</a>

<a href="/dashboard/riwayat-tes">

<i class="fas fa-history"></i>

<span>Riwayat Tes</span>

</a>

<a href="/dashboard/profile-edit">

<i class="fas fa-user"></i>

<span>Edit Profil</span>

</a>

<a href="/test">

<i class="fas fa-edit"></i>

<span>Mulai Tes</span>

</a>

</nav>

<button class="logout-btn" onclick="logout()">

<i class="fas fa-sign-out-alt"></i>

<span>Keluar</span>

</button>

</aside>

**Penjelasan**:

* **Logo**: Teks "TOEL.id", tanpa gambar.
* **Menu Navigasi**:
* Dashboard (aktif)
* Riwayat Tes
* Edit Profil
* Mulai Tes
* **Tombol Logout**: Tombol keluar akun, menjalankan fungsi logout().

Ikon menggunakan Font Awesome (<i class="fas fa-...">).

1. **Konten Utama**

<main class="main-content">...</main>

**Penjelasan**:

Sebagai Pembungkus dari :

* **Profile Header**

<div class="profile-header">

<div class="profile-photo">

<img class="user-photo" id="userPhoto" src="/assets/images/guest-profile.png">

<div class="default-photo" style="display:none;">

<i class="fas fa-user"></i>

</div>

</div>

<h1>Halo, <span id="userName">User</span>!</h1>

<p>Selamat datang di TOEL.id</p>

</div>

**Penjelasan**:

* Menampilkan foto pengguna (jika tidak ada, ikon default).
* Sapaan ke pengguna: "Halo, [nama]!"
* Teks penyambutan.
* **Statistik Cepat**

<div class="stats-container">

<div class="stat-card">

<h3>Skor Terakhir</h3>

<div class="score">

<span id="lastScore">0</span>

<small>poin</small>

</div>

<!-- Update Stats container links -->

<a href="riwayat-tes.html" class="view-more">

Lihat Riwayat <i class="fas fa-arrow-right"></i>

</a>

</div>

<div class="stat-card">

<h3>Peringkat</h3>

<div class="rank">

<span id="userRank">1</span>

<small>dari <span id="totalUsers">100</span> peserta</small>

</div>

<a href="/dashboard/leaderboard" class="view-more">

Lihat Leaderboard <i class="fas fa-arrow-right"></i>

</a>

</div>

</div>

**Penjelasan**:

Terdiri dari dua kartu informasi:

* **Skor** **Terakhir**
* Diambil dari localStorage → toeflHistory
* Jika ada tes full, ambil skorITP, jika tidak → skor section terakhir.
* **Peringkat**
* Simulasi: userRank = 1, totalUsers = 100.
* Di dunia nyata, diambil dari server (API).
* **Aksi Cepat**

<div class="quick-actions">

<h2>Aksi Cepat</h2>

<div class="action-buttons">

<!-- Update Quick Actions section hrefs -->

<a href="/test/mulai" class="action-btn primary">

<i class="fas fa-edit"></i>

Mulai Tes TOEFL

</a>

<a href="/dashboard/profile-edit" class="action-btn secondary">

<i class="fas fa-user-edit"></i>

Edit Profil

</a>

<a href="/dashboard/riwayat-tes" class="action-btn secondary">

<i class="fas fa-certificate"></i>

Riwayat & Sertifikat

</a>

</div>

</div>

**Penjelasan**:

3 Tombol Aksi

* Mulai Tes TOEFL
* Edit Profil
* Lihat Riwayat & Sertifikat

1. **Script JavaScript**
2. **JavaScript Eksternal**

<script src="/js/utils/auth.js"></script>

<script src="/js/pages/dashboard/dashboard.js"></script>

**Penjelasan**:

* Mengarah ke file auth.js
* Mengarah ke file Dashboard.js

1. **JavaScript Internal**

<script>

// Ambil riwayat tes dari localStorage

const riwayat = JSON.parse(localStorage.getItem('toeflHistory') || '[]');

// Ambil skor terakhir (Full test jika ada, jika tidak, ambil section terakhir)

let lastScore = '-';

if (riwayat.length > 0) {

// Cari entry Full test terakhir, jika tidak ada ambil entry pertama

const fullTest = riwayat.find(r => r.type === 'Full');

if (fullTest) {

lastScore = fullTest.skorITP;

} else {

// Ambil skor section terakhir

lastScore = riwayat[0].skor || '-';

}

}

document.getElementById('lastScore').textContent = lastScore;

// Peringkat (contoh: jika ada leaderboard, bisa diambil dari server)

// Untuk demo, tampilkan "-" jika tidak ada data

document.getElementById('userRank').textContent = '1';

document.getElementById('totalUsers').textContent = '100';

// Nama user (ambil dari localStorage atau auth)

const userName = localStorage.getItem('userName') || 'User';

document.getElementById('userName').textContent = userName;

</script>

**Penjelasan**:

* Ambil Riwayat Tes dari localStorage
* Cek apakah ada type: Full
* Jika ada, tampilkan skor ITP terakhir.
* Jika tidak, ambil skor section terbaru.
* Tampilkan Nama User

const userName = localStorage.getItem('userName') || 'User';

* Tampilkan Skor dan Peringkat

document.getElementById('lastScore').textContent = lastScore;

document.getElementById('userRank').textContent = '1';

document.getElementById('totalUsers').textContent = '100';

* **Code Program CSS**

|  |
| --- |
| /\* Dashboard Container \*/  .dashboard-container {  display: flex;  min-height: 100vh;  }  /\* Sidebar \*/  .sidebar {  width: 250px;  background: var(--primary-color);  color: white;  padding: 2rem 1.5rem;  display: flex;  flex-direction: column;  position: fixed;  height: 100vh;  }  .logo {  font-size: 1.8rem;  font-weight: 700;  margin-bottom: 3rem;  text-align: left;  }  .menu {  display: flex;  flex-direction: column;  gap: 0.8rem;  flex: 1;  }  .menu a {  display: flex;  align-items: center;  gap: 1rem;  padding: 1rem;  color: white;  text-decoration: none;  border-radius: 10px;  transition: all 0.3s ease;  }  .menu a:hover,  .menu a.active {  background: rgba(255, 255, 255, 0.1);  }  .menu a i {  width: 24px;  text-align: center;  font-size: 1.2rem;  }  .logout-btn {  margin-top: auto;  background: #ff4757;  color: white;  border: none;  padding: 1rem;  border-radius: 10px;  display: flex;  align-items: center;  gap: 1rem;  cursor: pointer;  transition: all 0.3s ease;  }  .logout-btn:hover {  background: #ff6b81;  }  /\* Main Content \*/  .main-content {  flex: 1;  padding: 2rem;  margin-left: 250px; /\* Changed from 280px to match new sidebar width \*/  }  /\* Profile Header \*/  .profile-header {  text-align: center;  padding: 3rem 2rem;  background: white;  border-radius: 20px;  box-shadow: 0 4px 20px rgba(0,0,0,0.05);  margin-bottom: 2rem;  }  .profile-photo {  width: 150px;  height: 150px;  border-radius: 50%;  overflow: hidden;  border: 3px solid var(--primary-color);  margin: 0 auto 1rem auto;  display: flex;  align-items: center;  justify-content: center;  position: relative;  background: #f8f9fa;  }  .profile-photo img.user-photo {  width: 100%;  height: 100%;  object-fit: cover;  object-position: center;  border-radius: 50%;  display: block;  position: relative;  z-index: 1;  background: #f8f9fa;  }  .profile-photo .default-photo {  position: absolute;  left: 0; top: 0;  width: 100%;  height: 100%;  display: flex;  align-items: center;  justify-content: center;  font-size: 3.5rem;  color: var(--primary-color);  background: #f8f9fa;  z-index: 2;  }  .profile-header h1 {  font-size: 2rem;  color: var(--primary-color);  margin-bottom: 0.5rem;  }  /\* Stats Container \*/  .stats-container {  display: grid;  grid-template-columns: repeat(auto-fit, minmax(300px, 1fr));  gap: 2rem;  margin-bottom: 2rem;  }  .stat-card {  background: white;  padding: 2rem;  border-radius: 15px;  box-shadow: 0 4px 20px rgba(0,0,0,0.05);  text-align: center;  }  .stat-card h3 {  color: var(--text-color);  font-size: 1.2rem;  margin-bottom: 1rem;  }  .score, .rank {  font-size: 3rem;  font-weight: 700;  color: var(--primary-color);  margin: 1rem 0;  }  .score small, .rank small {  font-size: 1rem;  opacity: 0.7;  }  .view-more {  color: var(--primary-color);  text-decoration: none;  display: inline-flex;  align-items: center;  gap: 0.5rem;  margin-top: 1rem;  font-weight: 500;  }  /\* Quick Actions \*/  .quick-actions {  background: white;  padding: 2rem;  border-radius: 15px;  box-shadow: 0 4px 20px rgba(0,0,0,0.05);  }  .quick-actions h2 {  margin-bottom: 1.5rem;  color: var(--text-color);  }  .action-buttons {  display: grid;  grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));  gap: 1rem;  }  .action-btn {  display: flex;  align-items: center;  gap: 1rem;  padding: 1rem 1.5rem;  border-radius: 10px;  text-decoration: none;  font-weight: 500;  transition: transform 0.3s ease, box-shadow 0.3s ease;  }  .action-btn.primary {  background: var(--primary-color);  color: white;  }  .action-btn.secondary {  background: var(--light-gray);  color: var(--text-color);  }  .action-btn:hover {  transform: translateY(-3px);  box-shadow: 0 6px 20px rgba(0,0,0,0.1);  }  /\* User Photo \*/  .user-photo {  width: 100%;  height: 100%;  object-fit: cover;  object-position: center;  border-radius: 50%;  border: 3px solid var(--primary-color);  background: #f0f0f0;  } |

* **Penjelasan Program**

1. **.dashboard-container**

.dashboard-container {

display: flex;

min-height: 100vh;

}

**Penjelasan**:

* Menjadikan seluruh halaman **flex layout**: Sidebar di kiri, konten di kanan.
* min-height: 100vh: Tinggi minimal layar penuh.

1. **Sidebar (.sidebar)**

.sidebar {

width: 250px;

background: var(--primary-color);

color: white;

padding: 2rem 1.5rem;

display: flex;

flex-direction: column;

position: fixed;

height: 100vh;

}

**Penjelasan**:

* **Lebar tetap** 250px.
* Warna utama (--primary-color), teks putih.
* Tetap di sisi kiri (fixed) saat scroll.
* Tersusun vertikal (flex column).

1. **Logo Sidebar**

.logo {

font-size: 1.8rem;

font-weight: 700;

margin-bottom: 3rem;

}

**Penjelasan**:

* Teks besar dan tebal sebagai judul "TOEL.id".

1. **Menu Navigasi**

.menu {

flex: 1;

display: flex;

flex-direction: column;

gap: 0.8rem;

}

.menu a {

display: flex;

align-items: center;

gap: 1rem;

padding: 1rem;

color: white;

text-decoration: none;

border-radius: 10px;

transition: all 0.3s ease;

}

.menu a:hover,

.menu a.active {

background: rgba(255, 255, 255, 0.1);

}

.menu a i {

width: 24px;

text-align: center;

font-size: 1.2rem;

}

**Penjelasan**:

* Tersusun vertikal.
* Jarak antar link: 0.8rem.
* Link tampil horizontal dengan ikon dan teks.
* Hover & aktif: latar belakang putih transparan:
* Ikon dalam menu:

1. **Tombol Logout**

.logout-btn {

margin-top: auto;

background: #ff4757;

color: white;

padding: 1rem;

border-radius: 10px;

display: flex;

align-items: center;

gap: 1rem;

cursor: pointer;

transition: all 0.3s ease;

}

.logout-btn:hover {

background: #ff6b81;

}

**Penjelasan**:

* Warna merah terang untuk penekanan.
* Terletak di paling bawah (karena margin-top: auto).

1. **Main Content (.main-content)**

.main-content {

flex: 1;

padding: 2rem;

margin-left: 250px;

}

**Penjelasan**:

* Mengisi sisa ruang di samping sidebar.
* margin-left disesuaikan dengan lebar sidebar agar tidak tertumpuk.

1. **Profile Header**

.profile-header {

text-align: center;

padding: 3rem 2rem;

background: white;

border-radius: 20px;

box-shadow: 0 4px 20px rgba(0,0,0,0.05);

margin-bottom: 2rem;

}

**Penjelasan**:

* Box putih melingkar, tengah halaman.
* Menampilkan avatar dan sapaan.

1. **Foto Profil**

.profile-photo {

width: 150px;

height: 150px;

border-radius: 50%;

border: 3px solid var(--primary-color);

overflow: hidden;

display: flex;

justify-content: center;

align-items: center;

}

.profile-photo img.user-photo {

object-fit: cover;

object-position: center;

}

.default-photo {

position: absolute;

display: flex;

align-items: center;

justify-content: center;

font-size: 3.5rem;

color: var(--primary-color);

}

**Penjelasan**:

* Foto bulat, diberi border warna utama.
* Gambar menyesuaikan proporsi wajah.
* Ikon default ditampilkan jika user belum upload foto.

1. **Stats Container**

.stats-container {

display: grid;

grid-template-columns: repeat(auto-fit, minmax(300px, 1fr));

gap: 2rem;

}

**Penjelasan**:

* 2 kolom statistik (skor terakhir & peringkat), responsif.

1. **Kartu Statistik**

.stat-card {

background: white;

padding: 2rem;

border-radius: 15px;

text-align: center;

}

.score, .rank {

font-size: 3rem;

font-weight: 700;

color: var(--primary-color);

}

.score small, .rank small {

font-size: 1rem;

opacity: 0.7;

}

.view-more {

text-decoration: none;

color: var(--primary-color);

display: inline-flex;

align-items: center;

gap: 0.5rem;

}

**Penjelasan**:

* Teks besar untuk angka skor/peringkat.
* Info tambahan menggunakan small.
* Link untuk melihat riwayat/leaderboard.

1. **Quick Actions**

.quick-actions {

background: white;

padding: 2rem;

border-radius: 15px;

box-shadow: 0 4px 20px rgba(0,0,0,0.05);

}

.action-buttons {

display: grid;

grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));

gap: 1rem;

}

**Penjelasan**:

* Bagian khusus untuk tombol aksi cepat.
* 3 tombol disusun secara responsif.

1. **Tombol Aksi**

.action-btn {

display: flex;

align-items: center;

gap: 1rem;

padding: 1rem 1.5rem;

border-radius: 10px;

font-weight: 500;

transition: transform 0.3s ease, box-shadow 0.3s ease;

}

.action-btn.primary {

background: var(--primary-color);

color: white;

}

.action-btn.secondary {

background: var(--light-gray);

color: var(--text-color);

}

**Penjelasan**:

* Tampil horizontal dengan ikon.
* Hover: naik sedikit dan punya bayangan.
* Tombol biru = aksi utama (mulai tes).
* Tombol abu = aksi tambahan (edit profil, riwayat).

1. **Gambar Profil (.user-photo)**

.user-photo {

width: 100%;

height: 100%;

object-fit: cover;

object-position: center;

border-radius: 50%;

border: 3px solid var(--primary-color);

background: #f0f0f0;

}

**Penjelasan**:

* Pastikan profil tetap bulat dan rapi.
* Jika gagal load, latar belakang tetap abu terang.
* **Code Program JavaScript**

|  |
| --- |
| document.addEventListener('DOMContentLoaded', function() {  // Check if user is logged in  if (!localStorage.getItem('isLoggedIn')) {  window.location.href = '/auth/login';  return;  }  updateUserInfo();  updateUserPhoto();  // Listen for profile updates  window.addEventListener('profileUpdated', updateUserInfo);  // Agar update otomatis jika event di-trigger dari halaman lain  window.addEventListener('profilePhotoUpdated', function(e) {  updateUserInfo();  updateUserPhoto();  });  });  function updateUserInfo() {  const userData = {  name: localStorage.getItem('username') || 'User',  email: localStorage.getItem('userEmail') || '',  photo: localStorage.getItem('userPhoto') || '/assets/images/guest-profile.png'  };  // Pastikan elemen dengan id userName dan userEmail ada di dashboard.html  const userName = document.getElementById('userName');  const userEmail = document.getElementById('userEmail');  if (userName) userName.textContent = userData.name;  if (userEmail) userEmail.textContent = userData.email;  }  function updateUserPhoto() {  const userPhoto = localStorage.getItem('userPhoto') || '/assets/images/guest-profile.png';  document.querySelectorAll('.user-photo').forEach(img => {  if (img && img.tagName === 'IMG') {  img.src = userPhoto;  img.onerror = function() {  if (!img.src.endsWith('guest-profile.png')) {  img.src = '/assets/images/guest-profile.png';  }  };  }  });  }  document.addEventListener('DOMContentLoaded', function() {  if (!localStorage.getItem('isLoggedIn')) {  window.location.href = '/auth/login';  return;  }  updateUserInfo();  // Tambahan penting: jalankan updateUserPhoto di setTimeout agar setelah DOM stabil  setTimeout(updateUserPhoto, 100);  window.addEventListener('profileUpdated', updateUserInfo);  window.addEventListener('profilePhotoUpdated', function(e) {  updateUserInfo();  updateUserPhoto();  });  }); |

* **Penjelasan Program**

1. **Fungsi Utama: Autentikasi & Informasi Pengguna**

document.addEventListener('DOMContentLoaded', function() {

// Check if user is logged in

if (!localStorage.getItem('isLoggedIn')) {

window.location.href = '/auth/login';

return;

}

updateUserInfo();

updateUserPhoto();

// Listen for profile updates

window.addEventListener('profileUpdated', updateUserInfo);

// Agar update otomatis jika event di-trigger dari halaman lain

window.addEventListener('profilePhotoUpdated', function(e) {

updateUserInfo();

updateUserPhoto();

});

});

**Penjelasan**:

* Saat halaman selesai dimuat (DOMContentLoaded), dicek apakah user **sudah login**.
* Jika isLoggedIn tidak ditemukan di localStorage, maka otomatis diarahkan ke /auth/login.

1. **Update Info Pengguna**

function updateUserInfo() {

const userData = {

name: localStorage.getItem('username') || 'User',

email: localStorage.getItem('userEmail') || '',

photo: localStorage.getItem('userPhoto') || '/assets/images/guest-profile.png'

};

// Pastikan elemen dengan id userName dan userEmail ada di dashboard.html

const userName = document.getElementById('userName');

const userEmail = document.getElementById('userEmail');

if (userName) userName.textContent = userData.name;

if (userEmail) userEmail.textContent = userData.email;

}

**Penjelasan**:

* Mengambil data nama, email, dan foto dari localStorage.
* Jika data tidak tersedia, digunakan nilai default:
* Nama = "User"
* Foto = guest-profile.png
* Menampilkan nama dan email ke elemen dengan ID userName dan userEmail (jika ada).

1. **Update Foto Profil**

function updateUserPhoto() {

const userPhoto = localStorage.getItem('userPhoto') || '/assets/images/guest-profile.png';

document.querySelectorAll('.user-photo').forEach(img => {

if (img && img.tagName === 'IMG') {

img.src = userPhoto;

img.onerror = function() {

if (!img.src.endsWith('guest-profile.png')) {

img.src = '/assets/images/guest-profile.png';

}

};

}

});

}

document.addEventListener('DOMContentLoaded', function() {

if (!localStorage.getItem('isLoggedIn')) {

window.location.href = '/auth/login';

return;

}

**Penjelasan**:

* Ambil URL foto user dari localStorage, jika tidak ada → gunakan default.
* Targetkan semua elemen dengan class .user-photo (biasanya elemen <img>).
* Jika gambar gagal dimuat (misal link rusak), akan otomatis diganti gambar default.

1. **Event Listener untuk Perubahan Profil**

window.addEventListener('profileUpdated', updateUserInfo);

window.addEventListener('profilePhotoUpdated', function(e) {

updateUserInfo();

updateUserPhoto();

});

**Penjelasan**:

* Jika halaman lain memicu event profileUpdated (misalnya user edit nama/email), maka dashboard akan otomatis memperbarui.
* Jika profilePhotoUpdated dipicu (ubah foto profil), maka akan update juga.

1. **Penyesuaian Khusus: setTimeout**

setTimeout(updateUserPhoto, 100); **Penjelasan**:

* Dijalankan setelah halaman benar-benar stabil (delay 100ms).
* Menghindari bug di beberapa browser saat img.src diubah terlalu cepat sebelum DOM selesai di-render.

1. **Duplikasi DOMContentLoaded**

document.addEventListener('DOMContentLoaded', function() {

if (!localStorage.getItem('isLoggedIn')) {

window.location.href = '/auth/login';

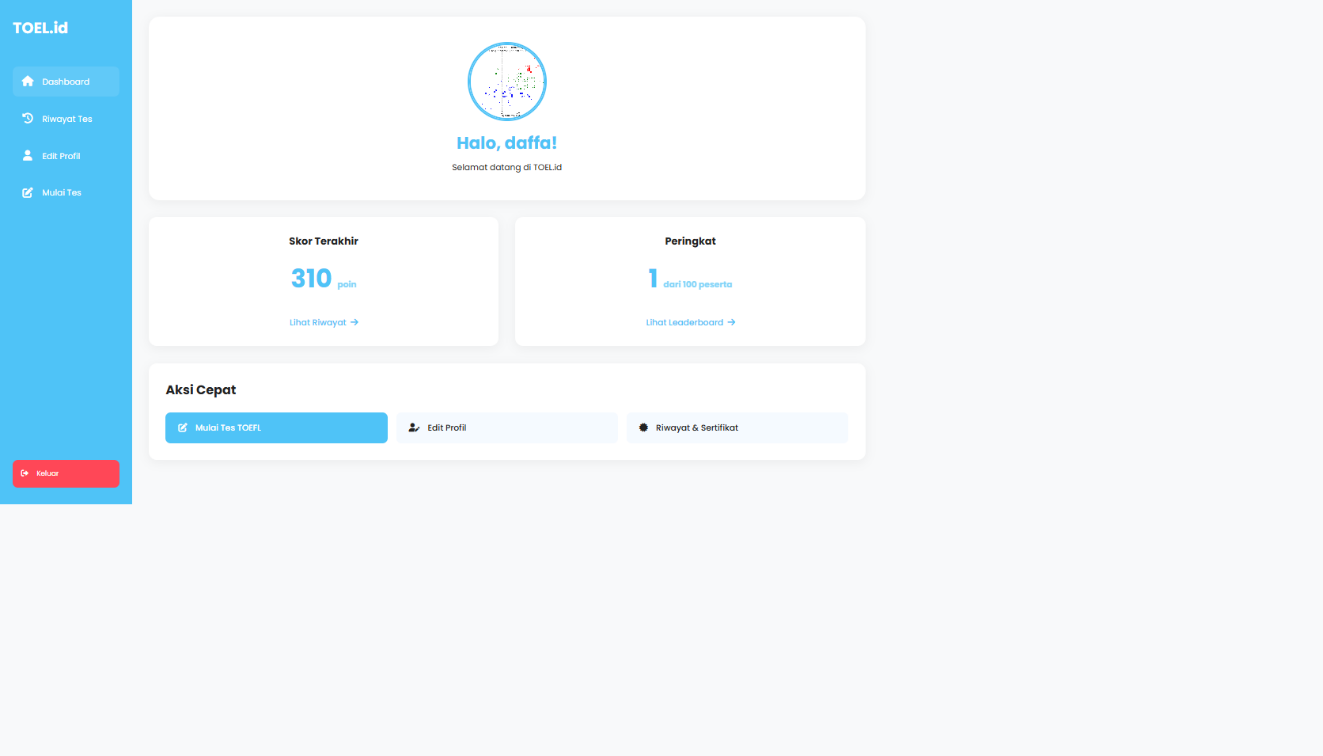
return;

}

**Penjelasan**:

* Kode ini **tertulis dua kali** (duplikat).
* Meskipun tidak menyebabkan error, lebih baik **dihapus salah satunya** agar efisien dan lebih bersih.

## **Hasil Running Dashboard**

****

# **Halaman Pilih Test**

## **Source Code dan Penjelasan**

Penjelasan Code HTML dan code Internal Javascript pada file index.html yang ada pada folder test. Ini adalah **halaman simulasi tes TOEFL**, yang berfungsi sebagai **tempat pengguna memilih mode dan bagian tes TOEFL yang ingin dikerjakan**.

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <title>Pilih Mode Tes TOEFL</title>  <link rel="stylesheet" href="../../css/global.css">  <link rel="stylesheet" href="../../css/pages/test/index.css">  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.2/css/all.min.css">  </head>  <body>  <!-- Tambahkan di dalam <body> setelah <div class="test-container"> atau paling atas -->  <a href="/dashboard" class="btn btn-back">  <i class="fas fa-arrow-left"></i> Kembali ke Dashboard  </a>  <div class="test-header">  <h1>Simulasi Tes TOEFL</h1>  <div class="desc">Latihan dan Ujian TOEFL - Pengalaman Lengkap</div>  <div class="meta">  <span><i class="fas fa-list-ol"></i> 140 Soal Total</span>  <span><i class="fas fa-clock"></i> 120 Menit Total</span>  </div>  </div>  <div class="test-mode-container">  <div class="instructions-card">  <div>  <h3>Sebelum Memulai:</h3>  <ul>  <li>Pastikan koneksi internet stabil</li>  <li>Cari tempat yang tenang untuk mengerjakan</li>  <li>Siapkan kertas dan alat tulis</li>  <li>Selesaikan setiap bagian dalam batas waktu</li>  </ul>  </div>  <div>  <h3>Format Tes:</h3>  <ul>  <li>Soal pilihan ganda</li>  <li>Timer berjalan otomatis saat dimulai</li>  <li>Bisa pindah soal bebas</li>  <li>Submit saat selesai atau waktu habis</li>  </ul>  </div>  </div>  <!-- Pilihan Mode -->  <div class="sections-row" style="justify-content:center;">  <div class="section-card listening" onclick="startTest('ujian')">  <span class="icon"><i class="fas fa-graduation-cap"></i></span>  <h2>Mode Ujian</h2>  <p>Kerjakan tes TOEFL seperti ujian sungguhan. Tidak ada pembahasan sebelum selesai.</p>  <button class="start-btn">Pilih Mode Ujian</button>  </div>  <div class="section-card reading" onclick="startTest('latihan')">  <span class="icon"><i class="fas fa-lightbulb"></i></span>  <h2>Mode Latihan</h2>  <p>Latihan soal TOEFL dengan pembahasan langsung setelah menjawab.</p>  <button class="start-btn">Pilih Mode Latihan</button>  </div>  </div>  <!-- Pilihan Section, tampil setelah mode dipilih -->  <div class="sections-row" id="sectionChoice" style="display:none; margin-top:24px;">  <div class="section-card listening">  <span class="icon"><i class="fas fa-headphones"></i></span>  <h2>Listening Comprehension</h2>  <p>Uji kemampuan memahami percakapan dan ceramah berbahasa Inggris.</p>  <div class="meta" id="info-listening">50 Soal | 40 Menit</div>  <a class="start-btn" href="/pages/test/soal-listening.html">Mulai Listening</a>  </div>  <div class="section-card structure">  <span class="icon"><i class="fas fa-file-alt"></i></span>  <h2>Structure & Written Expression</h2>  <p>Uji pemahaman tata bahasa dan struktur kalimat bahasa Inggris.</p>  <div class="meta" id="info-structure">40 Soal | 25 Menit</div>  <a class="start-btn" href="/pages/test/soal-structure.html">Mulai Structure</a>  </div>  <div class="section-card reading">  <span class="icon"><i class="fas fa-book-open"></i></span>  <h2>Reading Comprehension</h2>  <p>Uji pemahaman bacaan bahasa Inggris melalui berbagai teks.</p>  <div class="meta" id="info-reading">50 Soal | 55 Menit</div>  <a class="start-btn" href="/pages/test/soal-reading.html">Mulai Reading</a>  </div>  <div class="section-card fulltest">  <span class="icon"><i class="fas fa-layer-group"></i></span>  <h2>TOEFL Lengkap</h2>  <p>Kerjakan semua bagian secara berurutan untuk simulasi penuh TOEFL.</p>  <div class="meta" id="info-full">140 Soal | 120 Menit</div>  <a class="start-btn" href="/pages/test/soal-full.html">Mulai Tes Lengkap</a>  </div>  </div>  </div>  <script src="js/index.js"></script>  <script>  // Simpan mode di localStorage  function startTest(mode) {  localStorage.setItem('testMode', mode); // 'exam' atau 'practice'  document.getElementById('sectionChoice').style.display = 'flex';  window.scrollTo({ top: document.body.scrollHeight, behavior: 'smooth' });  }  function chooseSection(section) {  localStorage.setItem('testSection', section);  if (section === 'listening') {  window.location.href = '/pages/test/soal-listening.html';  } else if (section === 'structure') {  window.location.href = '/pages/test/soal-structure.html';  } else if (section === 'reading') {  window.location.href = '/pages/test/soal-reading.html';  } else if (section === 'full') {  window.location.href = '/pages/test/soal-full.html';  }  }  </script>  <script>  async function updateSectionInfo() {  // Fetch data JSON  const [listening, structure, reading] = await Promise.all([  fetch('/data/listening.json').then(r => r.json()),  fetch('/data/structure.json').then(r => r.json()),  fetch('/data/reading.json').then(r => r.json())  ]);  // Atur waktu default jika tidak ada di JSON (detik)  const listeningTime = listening.timeLimit || 2400; // 40 menit  const structureTime = structure.timeLimit || 1500; // 25 menit  const readingTime = reading.timeLimit || 3300; // 55 menit  // Update info pada HTML  document.getElementById('info-listening').textContent =  `${listening.questions.length} Soal | ${Math.round(listeningTime/60)} Menit`;  document.getElementById('info-structure').textContent =  `${structure.questions.length} Soal | ${Math.round(structureTime/60)} Menit`;  document.getElementById('info-reading').textContent =  `${reading.questions.length} Soal | ${Math.round(readingTime/60)} Menit`;  document.getElementById('info-full').textContent =  `${listening.questions.length + structure.questions.length + reading.questions.length} Soal | ${Math.round((listeningTime+structureTime+readingTime)/60)} Menit`;  }  updateSectionInfo();  </script>  </body>  </html> |

**Penjelasan Code perbagian**

**1.Struktur Utama HTML**

<!DOCTYPE html>

<html lang="id">

* <!DOCTYPE html>: Menyatakan bahwa dokumen ini adalah HTML versi 5.
* <html lang="id">: Elemen pembungkus seluruh halaman. Atribut lang="id" menandakan bahasa yang digunakan adalah Bahasa Indonesia (baik untuk SEO & screen reader).

<head>

<meta charset="UTF-8">

<title>Pilih Mode Tes TOEFL</title>

<link rel="stylesheet" href="../../css/global.css">

<link rel="stylesheet" href="../../css/pages/test/index.css">

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.2/css/all.min.css">

</head>

* <meta charset="UTF-8"> : Menentukan encoding karakter (agar bisa membaca karakter Indonesia/Latin).
* <meta name="viewport"...> : Membuat Agar halaman tampil responsive di HP/tablet.
* <title> : Judul yang muncul di tab browser.
* <link rel="stylesheet"> : Menghubungkan file CSS eksternal (di sini: global.css dan index.css).
* <link href="https://fonts.googleapis..."> : Membuat font Poppins dari Google Fonsts.
* <link rel="stylesheet" href="https://cdnjs..."> : Memuat icon Font Awesome (ikon gambar seperti headphone, globe, dsb).

**2.Bagian body(Isi halaman)**

**2.1.Tombol kembali**

<a href="/dashboard" class="btn btn-back"><i class="fas fa-arrow-left"></i> Kembali ke Dashboard</a>

Penjelasan:

Berfungsi untuk navigasi balik ke dashboard utama.

**2.2.Header Tes**

<div class="test-header">

<h1>Simulasi Tes TOEFL</h1>

...

</div>

Penjelasan:

Menjelaskan bahwa ini adalah halaman simulasi TOEFL. Di dalamnya:

* Judul,
* Deskripsi singkat,
* Info jumlah soal dan durasi total.

**2.3.Intruksi sebelum tes**

<div class="instructions-card">

Penjelasan:

Terdiri dari 2 bagian:

* **Sebelum Memulai**: Tips teknis & kesiapan peserta
* **Format Tes**: Jenis soal, sistem timer, navigasi, dll.

**2.4. Pilihan Mode Tes.**

<div class="section-card" onclick="startTest('ujian')">

Fungsinya:

Ada 2 Mode:

* Ujian (simulasi asli, tanpa pembahasan),
* Latihan (ada pembahasan setelah jawab)

Tiap kartu pakai onclick="startTest('...')" untuk menjalankan fungsi JavaScript.

**2.5. Pilihan Bagian Tes TOEFL (tampil setelah pilih mode)**

<div id="sectionChoice" style="display:none;">

Penjelasan:

Awalnya tersembunyi. Muncul setelah user pilih mode (ujian/latihan). Ada 4 bagian tes:

* Listening,
* Structure & Written Expression,
* Reading,
* Full Test (gabungan semua bagian).

Setiap kartu punya:

* Ikon,
* Judul,
* Deskripsi,
* Jumlah soal dan durasi (diupdate dari JSON via JS),
* Tombol link href ke halaman soal.

**3.Penjelasan Code Javascript Internal**

**3.1. startTest(mode)**

function startTest(mode) {

localStorage.setItem('testMode', mode);

document.getElementById('sectionChoice').style.display = 'flex';

window.scrollTo({ top: document.body.scrollHeight, behavior: 'smooth' });

}

Penjelasan:

* Simpan **mode pilihan user** (ujian / latihan) ke localStorage.
* Tampilkan bagian pilihan section (sectionChoice).
* Scroll otomatis ke bawah agar user langsung melihat pilihan.

**3.2. chooseSection(section)**

function chooseSection(section) {

localStorage.setItem('testSection', section);

window.location.href = '...';

}

Penjelasan:

* Ia menyimpan nama section ke localStorage dan Redirect user ke halaman soal yang sesuai

3.3. updateSectionInfo() – Async Fetch JSON

async function updateSectionInfo() {

const [listening, structure, reading] = await Promise.all([

fetch('/data/listening.json').then(r => r.json()),

fetch('/data/structure.json').then(r => r.json()),

fetch('/data/reading.json').then(r => r.json())

]);

...

}

updateSectionInfo();

Penjelasan:

* Mengambil data dari 3 file JSON (listening.json, structure.json, reading.json) secara paralel.
* Setiap file memuat:
  + questions : array soal.
  + timeLimit : waktu pengerjaan dalam detik (misal: 2400 detik = 40 menit).
  + Jika timeLimit tidak tersedia, pakai nilai default (2400, 1500, 3300 detik).
* Data tersebut dipakai untuk mengisi:
  + Jumlah soal per bagian
  + Durasi waktu perbagian
  + Info total untuk “Tes Lengkap”(jumlah dan durasi gabungan).

**Kode eksternal CSS.**

<link rel="stylesheet" href="../../css/global.css">

Baris ini berfungsi untuk memanggil file CSS global yang berisi aturan gaya umum seperti font, warna dasar, dan layout yang digunakan di seluruh halaman website.  
Path ../../css/global.css berisi file HTML saat ini naik dua folder, lalu masuk ke folder css dan mengambil file global.css.

<linkrel="stylesheet" href="../../css/pages/test/index.css">

Baris ini digunakan untuk **memanggil file CSS khusus halaman tes**. Aturan gaya di sini hanya berlaku untuk halaman tertentu, seperti tampilan layout pilihan mode tes.  
Path ../../css/pages/test/index.css yaitu file HTML **naik dua folder**, lalu masuk ke css/pages/test dan mengambil file index.css.

**Source code**

**index.css**

|  |
| --- |
| */\* Gradient Header \*/*  body {      background: #f8f9fa;      margin: 0;      font-family: 'Poppins', Arial, sans-serif;  }  *.test-mode-container* {      max-width: 900px;      margin: 0 auto;      padding: 0 0 40px 0;  }  *.test-header* {      background: linear-gradient(90deg, #6a82fb 20%, var(--primary-color) 100%);      color: #fff;      padding: 48px 0 32px 0;      text-align: center;      border-radius: 0 0 32px 32px;      margin-bottom: 32px;      box-shadow: 0 4px 24px rgba(0,0,0,0.07);  }  *.test-header* h1 {      font-size: 2.5rem;      font-weight: 700;      margin-bottom: 10px;  }  *.test-header* *.desc* {      font-size: 1.1rem;      opacity: 0.95;      margin-bottom: 18px;  }  *.test-header* *.meta* {      display: flex;      justify-content: center;      gap: 2rem;      font-size: 1rem;      opacity: 0.95;  }  *.test-header* *.meta* i {      margin-right: 6px;  }  */\* Instructions Card \*/*  *.instructions-card* {      background: #fff;      border-radius: 16px;      box-shadow: 0 2px 16px rgba(0,0,0,0.07);      padding: 32px 32px 24px 32px;      margin-bottom: 32px;      display: flex;      gap: 32px;      justify-content: space-between;  }  *.instructions-card* ul {      margin: 0;      padding-left: 20px;  }  *.instructions-card* h3 {      margin-top: 0;      font-size: 1.1rem;      font-weight: 600;  }  */\* Section Cards \*/*  *.sections-row* {      display: flex;      gap: 24px;      margin-bottom: 32px;      justify-content: center;  }  *.section-card* {      flex: 1;      background: #fff;      border-radius: 16px;      box-shadow: 0 2px 16px rgba(0,0,0,0.07);      padding: 32px 24px 24px 24px;      text-align: center;      border-top: 6px solid #eee;      transition: transform 0.2s, box-shadow 0.2s;      cursor: pointer;      position: relative;  }  *.section-card.listening* { border-top-color: var(--primary-color); }  *.section-card.structure* { border-top-color: var(--primary-color); }  *.section-card.reading* { border-top-color: var(--primary-color); }  *.section-card:hover* {      transform: translateY(-6px) scale(1.03);      box-shadow: 0 8px 32px rgba(90,90,180,0.10);  }  *.section-card* *.icon* {      font-size: 2.5rem;      margin-bottom: 12px;      display: block;  }  *.section-card.listening* *.icon* { color: var(--primary-color); }  *.section-card.structure* *.icon* { color: var(--primary-color); }  *.section-card.reading* *.icon* { color: var(--primary-color); }  *.section-card* h2 {      font-size: 1.15rem;      font-weight: 700;      margin: 0 0 8px 0;  }  *.section-card* p {      font-size: 0.98rem;      color: #444;      margin-bottom: 18px;  }  *.section-card* *.meta* {      font-size: 0.95rem;      color: #888;      margin-bottom: 18px;  }  *.section-card* *.start-btn* {      background: var(--primary-color);      color: #fff;      border: none;      border-radius: 8px;      padding: 10px 0;      width: 100%;      font-weight: 600;      font-size: 1rem;      cursor: pointer;      transition: background 0.2s;  }  *.section-card.structure* *.start-btn* { background: var(--primary-color); }  *.section-card.reading* *.start-btn* { background: var(--primary-color); }  *.section-card* *.start-btn:hover* {      filter: brightness(1.08);  }  */\* Full Test Card \*/*  *.fulltest-card* {      background: var(--primary-color);      color: #fff;      border-radius: 18px;      box-shadow: 0 2px 16px rgba(0,0,0,0.10);      padding: 32px 32px 24px 32px;      text-align: center;      margin: 0 auto;      max-width: 700px;  }  *.fulltest-card* h2 {      font-size: 1.3rem;      font-weight: 700;      margin-bottom: 10px;  }  *.fulltest-card* *.meta* {      font-size: 1rem;      margin-bottom: 18px;      opacity: 0.95;  }  *.fulltest-card* *.start-btn* {      background: #fff;      color: var(--primary-color);      border: none;      border-radius: 8px;      padding: 12px 0;      width: 220px;      font-weight: 600;      font-size: 1.1rem;      cursor: pointer;      margin-top: 10px;      transition: background 0.2s, color 0.2s;  }  *.fulltest-card* *.start-btn:hover* {      background: #e5e5e5;      color: #002aff;  }  */\* Back Button \*/*  *.btn-back* {      display: inline-flex;      align-items: center;      gap: 0.5rem;      background: var(--primary-color, #4a55a2);      color: #fff;      border: none;      border-radius: 8px;      padding: 0.75rem 1.5rem;      font-size: 1rem;      font-weight: 500;      text-decoration: none;      box-shadow: 0 2px 8px rgba(74, 85, 162, 0.08);      margin: 1.5rem 0 1rem 1.5rem;      transition: background 0.2s, box-shadow 0.2s, transform 0.2s;      cursor: pointer;  }  *.btn-back* i {      font-size: 1.1rem;  }  *.btn-back:hover* {      background: #35408f;      box-shadow: 0 4px 16px rgba(74, 85, 162, 0.15);      transform: translateY(-2px) scale(1.03);  } |

Penjelasan code per bagian

**2.1.Styling body**

body {

background: #f8f9fa;

margin: 0;

font-family: 'Poppins', Arial, sans-serif;

}

Fungsinya:

* Mengatur latar belakang putih keabu-abuan (#f8f9fa).
* Menghilangkan margin default dan memakai font Poppins (modern, mudah dibaca).

**1.2. .test-mode-container**

.test-mode-container {

max-width: 900px;

margin: 0 auto;

padding: 0 0 40px 0;

}

Fungsinya:

Membungkus semua isi halaman agar berada di tengah dan responsif.

* Container utama halaman tes.
* Lebar maksimal 900px dan berada di tengah halaman.

**1.3. .test-header**

.test-header {

background: linear-gradient(90deg, #6a82fb 20%, var(--primary-color) 100%);

color: #fff;

padding: 48px 0 32px 0;

text-align: center;

border-radius: 0 0 32px 32px;

margin-bottom: 32px;

box-shadow: 0 4px 24px rgba(0,0,0,0.07);

}

Fungsinya:

Menampilkan judul dan informasi umum tes dengan tampilan menarik.

* Bagian atas berisi judul tes dan deskripsi.
* Memakai gradient biru ke ungu dan teks putih.
* Sudut bawah membulat, ada bayangan halus.

**1.4. .instructions-card**

.instructions-card {

background: #fff;

border-radius: 16px;

box-shadow: 0 2px 16px rgba(0,0,0,0.07);

padding: 32px;

display: flex;

gap: 32px;

justify-content: space-between;

}

Fungsinya:

Menampilkan daftar hal yang perlu disiapkan dan format tes.

* Kotak berisi petunjuk sebelum tes.
* Latar putih, sudut membulat, bayangan lembut.
* Disusun horizontal, dua kolom.

**1.5. .sections-row & .section-card**

.sections-row {

display: flex;

gap: 24px;

justify-content: center;

margin-bottom: 32px;

}

Fungsinya:

Menyusun pilihan mode tes secara horizontal dan responsif.

* Baris yang berisi pilihan mode atau bagian tes (Listening, Structure, Reading, Full Test).
* Tiap .section-card punya tampilan:
  + Putih, sudut membulat, ada animasi hover.
  + Ada ikon, judul, deskripsi, info soal & waktu.
  + Tombol "Pilih" berwarna biru (var(--primary-color)).

**1.6. .section-card:hover**

.section-card {

background: #fff;

border-radius: 16px;

box-shadow: 0 2px 16px rgba(0,0,0,0.07);

padding: 32px 24px;

text-align: center;

cursor: pointer;

transition: transform 0.2s, box-shadow 0.2s;

}

.section-card:hover {

transform: translateY(-6px) scale(1.03);

box-shadow: 0 8px 32px rgba(90,90,180,0.10);

}

Fungsinya:

* Saat kursor diarahkan:
  + Kartu sedikit membesar dan naik.
  + Efek bayangan lebih besar.

**1.7. .fulltest-card**

.section-card .start-btn {

background: var(--primary-color);

color: #fff;

border: none;

border-radius: 8px;

padding: 10px 0;

width: 100%;

font-weight: 600;

cursor: pointer;

}

.section-card .start-btn:hover {

filter: brightness(1.08);

}

Fungsinya:

Tombol untuk memilih/memulai tes.

* Tampilan khusus untuk **Mode Tes Lengkap**.
* Latar biru, teks putih, tombol putih.

**1.8. .btn-back**

.fulltest-card {

background: var(--primary-color);

color: #fff;

border-radius: 18px;

padding: 32px;

text-align: center;

max-width: 700px;

margin: 0 auto;

}

.fulltest-card .start-btn {

background: #fff;

color: var(--primary-color);

}

Fungsinya:

Gaya khusus untuk pilihan tes lengkap.

* Tombol kembali ke dashboard.
* Bentuk tombol bulat, teks putih, warna biru.
* Ada ikon panah kiri.

**1.9. Penggunaan var(--primary-color)**

.btn-back {

display: inline-flex;

align-items: center;

background: var(--primary-color, #4a55a2);

color: #fff;

border-radius: 8px;

padding: 0.75rem 1.5rem;

text-decoration: none;

margin: 1.5rem 0 1rem 1.5rem;

transition: background 0.2s, box-shadow 0.2s, transform 0.2s;

}

.btn-back:hover {

background: #35408f;

transform: translateY(-2px) scale(1.03);

}

Fungsinya:

Navigasi kembali ke dashboard.

* Warna utama dinamis, didefinisikan di file CSS global (global.css).
* Memberi konsistensi warna untuk tema website.

## **Hasil Running Halaman Pilih Test**

# **Halaman Soal Test TOEFL**

## **Source Code Soal dan Penjelasan**

* **Listening**
  + **Code Program HTML dan JavaScript Internal serta Inline Style**

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <title>Listening Comprehension</title>  <link rel="stylesheet" href="../../css/global.css">  <link rel="stylesheet" href="../../css/pages/test/soal.css">  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">  </head>  <body>  <a href="/dashboard" class="btn btn-back" style="margin:1.5rem 2rem 0 2rem;">  <i class="fas fa-arrow-left"></i> Kembali ke Dashboard  </a>  <div class="test-container">  <aside class="question-navigator">  <div class="navigator-grid"></div>  <button class="submit-btn">Submit Test</button>  </aside>  <section class="question-section">  <div class="question-header">  <span class="question-number"></span>  <span class="timer">40:00</span>  </div>  <div class="audio-player"></div>  <h2 class="question-title"></h2>  <div class="options"></div>  <div class="navigation-buttons">  <button class="prev-btn">Previous</button>  <button class="next-btn">Next</button>  </div>  </section>  </div>  <script>  document.addEventListener('DOMContentLoaded', async function() {  // Ambil soal listening  const res = await fetch('../../data/listening.json');  const data = await res.json();  const questions = data.questions;  const timeLimit = data.timeLimit || 2400; // detik  const mode = localStorage.getItem('testMode') || 'ujian'; // 'ujian' atau 'latihan'  let current = 0;  let answers = JSON.parse(localStorage.getItem('listeningAnswers') || '[]');  if (answers.length !== questions.length) answers = Array(questions.length).fill(null);  // Timer  let timer = timeLimit;  const timerSpan = document.querySelector('.timer');  function updateTimer() {  const m = String(Math.floor(timer / 60)).padStart(2, '0');  const s = String(timer % 60).padStart(2, '0');  timerSpan.textContent = `${m}:${s}`;  if (timer <= 0) {  submitTest();  } else {  timer--;  setTimeout(updateTimer, 1000);  }  }  updateTimer(); // Timer selalu aktif di semua mode  function renderQuestion(idx) {  const q = questions[idx];  document.querySelector('.question-title').textContent = q.question;  // Render audio jika ada  const audioDiv = document.querySelector('.audio-player');  audioDiv.innerHTML = '';  if (q.audioUrl) {  const audio = document.createElement('audio');  audio.controls = true;  audio.src = '../../data/audio/' + q.audioUrl;  audioDiv.appendChild(audio);  }  // Render opsi  const opts = document.querySelector('.options');  opts.innerHTML = '';  q.options.forEach((opt, i) => {  const div = document.createElement('div');  div.className = 'option' + (answers[idx] === i ? ' selected' : '');  div.textContent = opt;  div.onclick = () => {  answers[idx] = i;  localStorage.setItem('listeningAnswers', JSON.stringify(answers));  renderQuestion(idx);  renderNavigator();  // Feedback langsung (mode latihan)  if (mode === 'latihan') {  showFeedback(q, i);  }  };  opts.appendChild(div);  });  document.querySelector('.question-number').textContent = `Question ${idx + 1} of ${questions.length}`;  document.querySelector('.prev-btn').disabled = idx === 0;  document.querySelector('.next-btn').disabled = idx === questions.length - 1;  // Feedback area  let feedback = document.getElementById('feedback');  if (!feedback) {  feedback = document.createElement('div');  feedback.id = 'feedback';  feedback.style.marginTop = '1rem';  feedback.style.fontWeight = 'bold';  document.querySelector('.question-section').appendChild(feedback);  }  feedback.innerHTML = '';  }  function showFeedback(q, chosenIdx) {  const feedback = document.getElementById('feedback');  if (chosenIdx === q.correct) {  feedback.innerHTML = '<span style="color:green">Benar!</span>';  } else {  feedback.innerHTML = `<span style="color:red">Salah.</span> Kunci: <b>${q.options[q.correct]}</b>`;  }  }  function renderNavigator() {  const nav = document.querySelector('.navigator-grid');  nav.innerHTML = '';  questions.forEach((\_, i) => {  const btn = document.createElement('button');  btn.textContent = i + 1;  btn.className = (i === current ? 'current ' : '') +  (answers[i] !== null ? 'answered' : 'unanswered');  btn.onclick = () => {  current = i;  renderQuestion(current);  renderNavigator();  };  nav.appendChild(btn);  });  }  document.querySelector('.prev-btn').onclick = () => {  if (current > 0) {  current--;  renderQuestion(current);  renderNavigator();  }  };  document.querySelector('.next-btn').onclick = () => {  if (current < questions.length - 1) {  current++;  renderQuestion(current);  renderNavigator();  }  };  document.querySelector('.submit-btn').onclick = submitTest;  function submitTest() {  if (mode === 'latihan') {  showPembahasan();  return;  }  // Hitung skor  let score = 0;  questions.forEach((q, i) => {  if (answers[i] === q.correct) score++;  });  localStorage.setItem('listeningScore', score);  localStorage.setItem('listeningTotal', questions.length);  localStorage.removeItem('listeningAnswers');  window.location.href = 'hasil-listening.html';  }  function showPembahasan() {  document.querySelector('.test-container').innerHTML = `  <div class="pembahasan-container">  <h2 class="pembahasan-title">Pembahasan Listening</h2>  <div class="table-responsive">  <table class="table-pembahasan">  <thead>  <tr>  <th>No</th>  <th>Pertanyaan</th>  <th>Jawaban Anda</th>  <th>Kunci</th>  <th>Pembahasan</th>  </tr>  </thead>  <tbody>  ${questions.map((q, i) => {  const userAns = answers[i];  const benar = userAns === q.correct;  return `  <tr>  <td>${i+1}</td>  <td style="text-align:left">${q.question}</td>  <td style="text-align:left">  <span class="${userAns === null ? 'belum' : benar ? 'benar' : 'salah'}">  ${userAns !== null ? q.options[userAns] : '<i>Belum dijawab</i>'}  </span>  </td>  <td style="text-align:left"><span class="benar">${q.options[q.correct]}</span></td>  <td style="text-align:left">${q.explanation || '-'}</td>  </tr>  `;  }).join('')}  </tbody>  </table>  </div>  <a href="/dashboard" class="btn btn-dashboard">Kembali ke Dashboard</a>  </div>  <style>  .pembahasan-container {  max-width: 980px;  margin: 2.5rem auto;  background: #fff;  border-radius: 18px;  padding: 2.5rem 1.5rem 2rem 1.5rem;  box-shadow: 0 4px 24px #e3eafc;  animation: fadeIn 0.7s;  }  .pembahasan-title {  margin-bottom: 2rem;  font-size: 2rem;  color: #2d3a4a;  letter-spacing: 0.5px;  text-align: center;  }  .table-responsive { overflow-x: auto; }  .table-pembahasan {  border-collapse: separate;  border-spacing: 0;  width: 100%;  font-size: 1.07em;  background: #fafdff;  box-shadow: 0 1px 8px #f0f4fa;  }  .table-pembahasan th, .table-pembahasan td {  border: 1px solid #e0e0e0;  padding: 13px 10px;  vertical-align: top;  }  .table-pembahasan th {  background: #e3eafc;  position: sticky;  top: 0;  z-index: 2;  font-weight: 600;  color: #223;  text-align: center;  }  .table-pembahasan tr:nth-child(even) { background: #f6faff; }  .table-pembahasan tr:hover { background: #eaf2fb; transition: background 0.2s; }  .benar {  color: #219150;  font-weight: 600;  background: #e7fbe9;  border-radius: 6px;  padding: 2px 8px;  }  .salah {  color: #d32f2f;  font-weight: 600;  background: #ffeaea;  border-radius: 6px;  padding: 2px 8px;  }  .belum {  color: #888;  font-style: italic;  }  .btn-dashboard {  margin-top: 2.2rem;  display: inline-block;  background: #2471f3;  color: #fff;  padding: 0.8em 2.2em;  border: none;  border-radius: 8px;  font-size: 1.1em;  font-weight: 500;  box-shadow: 0 2px 8px #e3eafc;  transition: background 0.2s, box-shadow 0.2s;  text-decoration: none;  }  .btn-dashboard:hover {  background: #1746a2;  box-shadow: 0 4px 16px #dbeafe;  }  @media (max-width: 700px) {  .pembahasan-container { padding: 1rem 0.2rem; }  .table-pembahasan th, .table-pembahasan td { font-size: 0.97em; padding: 7px 4px; }  .pembahasan-title { font-size: 1.2rem; }  }  @keyframes fadeIn {  from { opacity: 0; transform: translateY(30px);}  to { opacity: 1; transform: none;}  }  </style>  `;  // Reset jawaban setelah pembahasan  localStorage.removeItem('listeningAnswers');  }  // Tampilkan mode aktif di pojok kanan atas  const header = document.querySelector('.question-header');  if (header) {  const modeLabel = document.createElement('span');  modeLabel.textContent = mode === 'ujian' ? 'Mode Ujian' : 'Mode Latihan';  modeLabel.style.background = mode === 'ujian' ? '#4a55a2' : '#2ecc71';  modeLabel.style.color = '#fff';  modeLabel.style.padding = '0.3rem 1rem';  modeLabel.style.borderRadius = '20px';  modeLabel.style.marginLeft = '1rem';  header.appendChild(modeLabel);  }  // Render awal  renderQuestion(current);  renderNavigator();  });  </script>  </body>  </html> |

**Penjelasan Program**

1. **Struktur Dokumen HTML**

<!DOCTYPE html>

<html lang="id">

<head>

<meta charset="UTF-8">

<title>Listening Comprehension</title>

<link rel="stylesheet" href="../../css/global.css">

<link rel="stylesheet" href="../../css/pages/test/soal.css">

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/.../font-awesome.min.css">

</head>

**Penjelasan**:

* Menyatakan ini adalah dokumen **HTML5** dan menggunakan **Bahasa Indonesia**.
* Mengatur encoding, judul tab, dan memuat:
* global.css → Styling umum.
* soal.css → Styling khusus untuk halaman soal.
* Font Awesome → Untuk ikon (arrow, audio, dll)

1. **Bagian Body**
2. **Tombol Kembali**

<a href="/dashboard" class="btn btn-back">

<i class="fas fa-arrow-left"></i> Kembali ke Dashboard

</a>

**Penjelasan**:

* Tombol di atas untuk kembali ke dashboard pengguna.

1. **Struktur Utama Test**

<div class="test-container">

<aside class="question-navigator">

<div class="navigator-grid"></div>

<button class="submit-btn">Submit Test</button>

</aside>

<section class="question-section">

<div class="question-header">

<span class="question-number"></span>

<span class="timer">40:00</span>

</div>

<div class="audio-player"></div>

<h2 class="question-title"></h2>

<div class="options"></div>

<div class="navigation-buttons">

<button class="prev-btn">Previous</button>

<button class="next-btn">Next</button>

</div>

</section>

</div>

**Penjelasan**:

* aside.question-navigator:
* Area navigasi soal (daftar nomor soal).
* Tombol Submit Test.
* section.question-section:
* Header soal: nomor soal & timer.
* Audio player jika soal memiliki file audio.
* Judul soal dan pilihan jawaban.
* Tombol navigasi soal: **Previous** & **Next**.

1. **Script JavaScript**
2. **Mengambil Data Soal**

const res = await fetch('../../data/listening.json');

const data = await res.json();

**Penjelasan**:

* Mengambil data soal listening dari file listening.json secara **asinkron (async)**.
* Data berisi:
* questions → daftar soal.
* timeLimit → waktu maksimal menjawab.

1. **Timer**

let timer = timeLimit;

const timerSpan = document.querySelector('.timer');

function updateTimer() {

const m = String(Math.floor(timer / 60)).padStart(2, '0');

const s = String(timer % 60).padStart(2, '0');

timerSpan.textContent = `${m}:${s}`;

if (timer <= 0) {

submitTest();

} else {

timer--;

setTimeout(updateTimer, 1000);

}

}

updateTimer();

**Penjelasan**:

* Timer dihitung mundur dari timeLimit (default 2400 detik / 40 menit).
* Setiap detik: update tampilan.
* Jika habis → otomatis submitTest().

1. **Render Soal**

function renderQuestion(idx) {

const q = questions[idx];

document.querySelector('.question-title').textContent = q.question;

// Render audio jika ada

const audioDiv = document.querySelector('.audio-player');

audioDiv.innerHTML = '';

if (q.audioUrl) {

const audio = document.createElement('audio');

audio.controls = true;

audio.src = '../../data/audio/' + q.audioUrl;

audioDiv.appendChild(audio);

}

// Render opsi

const opts = document.querySelector('.options');

opts.innerHTML = '';

q.options.forEach((opt, i) => {

const div = document.createElement('div');

div.className = 'option' + (answers[idx] === i ? ' selected' : '');

div.textContent = opt;

div.onclick = () => {

answers[idx] = i;

localStorage.setItem('listeningAnswers', JSON.stringify(answers));

renderQuestion(idx);

renderNavigator();

// Feedback langsung (mode latihan)

if (mode === 'latihan') {

showFeedback(q, i);

}

};

opts.appendChild(div);

});

document.querySelector('.question-number').textContent = `Question ${idx + 1} of ${questions.length}`;

document.querySelector('.prev-btn').disabled = idx === 0;

document.querySelector('.next-btn').disabled = idx === questions.length - 1;

// Feedback area

let feedback = document.getElementById('feedback');

if (!feedback) {

feedback = document.createElement('div');

feedback.id = 'feedback';

feedback.style.marginTop = '1rem';

feedback.style.fontWeight = 'bold';

document.querySelector('.question-section').appendChild(feedback);

}

feedback.innerHTML = '';

}

**Penjelasan**:

Fungsi untuk menampilkan soal ke-idx, mencakup:

* **Pertanyaan**.
* **Audio** soal (jika ada).
* **Opsi pilihan jawaban**.
* Menandai jawaban yang sudah dipilih.
* Menampilkan feedback (mode latihan).

1. **Feedback Jawaban (Mode Latihan)**

function showFeedback(q, chosenIdx) {

const feedback = document.getElementById('feedback');

if (chosenIdx === q.correct) {

feedback.innerHTML = '<span style="color:green">Benar!</span>';

} else {

feedback.innerHTML = `<span style="color:red">Salah.</span> Kunci: <b>${q.options[q.correct]}</b>`;

}

}

**Penjelasan**:

* Menampilkan jawaban **benar/salah** segera setelah memilih opsi, hanya jika mode === 'latihan'.

1. **Navigator (Daftar Nomor Soal)**

function renderNavigator() {

const nav = document.querySelector('.navigator-grid');

nav.innerHTML = '';

questions.forEach((\_, i) => {

const btn = document.createElement('button');

btn.textContent = i + 1;

btn.className = (i === current ? 'current ' : '') +

(answers[i] !== null ? 'answered' : 'unanswered');

btn.onclick = () => {

current = i;

renderQuestion(current);

renderNavigator();

};

nav.appendChild(btn);

});

}

**Penjelasan**:

* Menampilkan tombol 1, 2, 3, ... untuk tiap soal.
* Warna berbeda jika soal sudah dijawab (answered) atau belum (unanswered).
* Menampilkan soal sesuai nomor yang diklik.

1. **Tombol Navigasi**

document.querySelector('.prev-btn').onclick = () => {

if (current > 0) {

current--;

renderQuestion(current);

renderNavigator();

}

};

document.querySelector('.next-btn').onclick = () => {

if (current < questions.length - 1) {

current++;

renderQuestion(current);

renderNavigator();

}

};

document.querySelector('.submit-btn').onclick = submitTest;

**Penjelasan**:

* Tombol “Prev” dan “Next” untuk berpindah antar soal.
* Disable tombol jika di soal pertama/terakhir.

1. **Submit Test**

function submitTest() {

if (mode === 'latihan') {

showPembahasan();

return;

}

// Hitung skor

let score = 0;

questions.forEach((q, i) => {

if (answers[i] === q.correct) score++;

});

localStorage.setItem('listeningScore', score);

localStorage.setItem('listeningTotal', questions.length);

localStorage.removeItem('listeningAnswers');

window.location.href = 'hasil-listening.html';

}

**Penjelasan**:

* **Mode Ujian**:
* Hitung skor berdasarkan jumlah jawaban yang benar.
* Simpan skor ke localStorage.
* Arahkan ke halaman hasil-listening.html.
* **Mode Latihan**:
* Panggil showPembahasan() untuk menampilkan tabel pembahasan.

1. **Pembahasan Soal (Mode Latihan)**

function showPembahasan() {

document.querySelector('.test-container').innerHTML = `

<div class="pembahasan-container">

<h2 class="pembahasan-title">Pembahasan Listening</h2>

<div class="table-responsive">

<table class="table-pembahasan">

<thead>

<tr>

<th>No</th>

<th>Pertanyaan</th>

<th>Jawaban Anda</th>

<th>Kunci</th>

<th>Pembahasan</th>

</tr>

</thead>

<tbody>

${questions.map((q, i) => {

const userAns = answers[i];

const benar = userAns === q.correct;

return `

<tr>

<td>${i+1}</td>

<td style="text-align:left">${q.question}</td>

<td style="text-align:left">

<span class="${userAns === null ? 'belum' : benar ? 'benar' : 'salah'}">

${userAns !== null ? q.options[userAns] : '<i>Belum dijawab</i>'}

</span>

</td>

<td style="text-align:left"><span class="benar">${q.options[q.correct]}</span></td>

<td style="text-align:left">${q.explanation || '-'}</td>

</tr>

`;

}).join('')}

</tbody>

</table>

</div>

<a href="/dashboard" class="btn btn-dashboard">Kembali ke Dashboard</a>

</div>

<style>

.pembahasan-container {

max-width: 980px;

margin: 2.5rem auto;

background: #fff;

border-radius: 18px;

padding: 2.5rem 1.5rem 2rem 1.5rem;

box-shadow: 0 4px 24px #e3eafc;

animation: fadeIn 0.7s;

}

.pembahasan-title {

margin-bottom: 2rem;

font-size: 2rem;

color: #2d3a4a;

letter-spacing: 0.5px;

text-align: center;

}

.table-responsive { overflow-x: auto; }

.table-pembahasan {

border-collapse: separate;

border-spacing: 0;

width: 100%;

font-size: 1.07em;

background: #fafdff;

box-shadow: 0 1px 8px #f0f4fa;

}

.table-pembahasan th, .table-pembahasan td {

border: 1px solid #e0e0e0;

padding: 13px 10px;

vertical-align: top;

}

.table-pembahasan th {

background: #e3eafc;

position: sticky;

top: 0;

z-index: 2;

font-weight: 600;

color: #223;

text-align: center;

}

.table-pembahasan tr:nth-child(even) { background: #f6faff; }

.table-pembahasan tr:hover { background: #eaf2fb; transition: background 0.2s; }

.benar {

color: #219150;

font-weight: 600;

background: #e7fbe9;

border-radius: 6px;

padding: 2px 8px;

}

.salah {

color: #d32f2f;

font-weight: 600;

background: #ffeaea;

border-radius: 6px;

padding: 2px 8px;

}

.belum {

color: #888;

font-style: italic;

}

.btn-dashboard {

margin-top: 2.2rem;

display: inline-block;

background: #2471f3;

color: #fff;

padding: 0.8em 2.2em;

border: none;

border-radius: 8px;

font-size: 1.1em;

font-weight: 500;

box-shadow: 0 2px 8px #e3eafc;

transition: background 0.2s, box-shadow 0.2s;

text-decoration: none;

}

.btn-dashboard:hover {

background: #1746a2;

box-shadow: 0 4px 16px #dbeafe;

}

@media (max-width: 700px) {

.pembahasan-container { padding: 1rem 0.2rem; }

.table-pembahasan th, .table-pembahasan td { font-size: 0.97em; padding: 7px 4px; }

.pembahasan-title { font-size: 1.2rem; }

}

@keyframes fadeIn {

from { opacity: 0; transform: translateY(30px);}

to { opacity: 1; transform: none;}

}

</style>

`;

// Reset jawaban setelah pembahasan

localStorage.removeItem('listeningAnswers');

}

**Penjelasan**:

* Mengganti seluruh halaman dengan tabel berisi:
* Nomor soal.
* Pertanyaan.
* Jawaban pengguna.
* Kunci jawaban.
* Pembahasan (jika ada).
* Tambah tombol kembali ke Dashboard.
* Tambahkan CSS khusus untuk tampilan tabel dan mobile responsiveness.

1. **Tampilkan Mode Aktif**

const header = document.querySelector('.question-header');

if (header) {

const modeLabel = document.createElement('span');

modeLabel.textContent = mode === 'ujian' ? 'Mode Ujian' : 'Mode Latihan';

modeLabel.style.background = mode === 'ujian' ? '#4a55a2' : '#2ecc71';

modeLabel.style.color = '#fff';

modeLabel.style.padding = '0.3rem 1rem';

modeLabel.style.borderRadius = '20px';

modeLabel.style.marginLeft = '1rem';

header.appendChild(modeLabel);

}

**Penjelasan**:

* Di pojok kanan atas header akan muncul **"Mode Ujian"** (warna biru) atau **"Mode Latihan"** (warna hijau), tergantung isi localStorage.getItem('testMode').

1. **Penyimpan Jawaban**

let answers = JSON.parse(localStorage.getItem('listeningAnswers') || '[]');

**Penjelasan**:

* Menyimpan jawaban di browser menggunakan **localStorage**.
* awaban tetap tersimpan walau halaman di-refresh.

**Code Program CSS**

|  |
| --- |
| body {  background: linear-gradient(135deg, #e3f7ff 60%, #fffde7 100%);  }  .btn-back {  background: var(--secondary-color);  color: var(--primary-color);  border: 2px solid var(--primary-color);  border-radius: 8px;  padding: 0.7rem 1.5rem;  font-weight: 600;  margin-bottom: 1.5rem;  display: inline-flex;  align-items: center;  gap: 0.5rem;  text-decoration: none;  transition: background 0.2s, color 0.2s;  }  .btn-back:hover {  background: var(--primary-color);  color: #fff;  }  .test-container {  max-width: 1100px;  margin: 2rem auto;  padding: 2rem;  background: #fff;  border-radius: 18px;  box-shadow: 0 4px 24px rgba(79,195,247,0.09);  display: flex;  gap: 2rem;  }  .question-navigator {  width: 220px;  background: var(--accent-color);  border: 2px solid var(--primary-color);  border-radius: 12px;  box-shadow: 0 2px 12px rgba(0,0,0,0.06);  padding: 1.5rem 1rem;  margin-right: 1.5rem;  }  .question-navigator .navigator-grid {  display: grid;  grid-template-columns: repeat(5, 1fr);  gap: 0.5rem;  margin-bottom: 1.5rem;  }  .question-navigator button {  border: none;  border-radius: 6px;  padding: 0.5rem 0;  font-weight: 500;  background: #f1f3fa;  color: #4a55a2;  cursor: pointer;  transition: background 0.2s;  }  .question-navigator button.current {  background: var(--primary-color);  color: #fff;  }  .question-navigator button.answered {  background: var(--secondary-color);  color: var(--primary-color);  }  .question-navigator button.unanswered {  background: #fff;  color: var(--primary-color);  }  .submit-btn {  width: 100%;  background: #e74c3c;  color: #fff;  font-weight: 600;  border-radius: 18px;  padding: 0.8rem 2.5rem;  margin-top: 1.5rem;  border: none;  cursor: pointer;  font-size: 1.1rem;  box-shadow: 0 2px 8px #e74c3c22;  }  .question-section {  flex: 1;  background: #fff;  border-radius: 15px;  padding: 2rem;  box-shadow: 0 4px 20px rgba(0,0,0,0.05);  }  .question-header {  display: flex;  justify-content: space-between;  align-items: center;  margin-bottom: 1.5rem;  padding-bottom: 1rem;  border-bottom: 1px solid var(--border-color);  }  .timer {  background: var(--primary-color);  color: white;  padding: 0.7rem 1.5rem;  border-radius: 50px;  font-weight: 600;  box-shadow: 0 4px 15px rgba(0,0,0,0.1);  font-size: 1.1rem;  }  .options {  display: flex;  flex-direction: column;  gap: 1rem;  margin-top: 1.5rem;  }  .option {  padding: 1rem;  border: 2px solid var(--border-color);  border-radius: 8px;  cursor: pointer;  transition: all 0.3s ease;  background: #f8f9fa;  font-size: 1rem;  }  .option.selected {  border-color: var(--primary-color);  background: rgba(74, 85, 162, 0.1);  }  .navigation-buttons {  display: flex;  justify-content: space-between;  margin-top: 2rem;  }  /\* Tombol Previous & Next \*/  .navigation-buttons button {  background: #e74c3c;  color: #fff;  border: none;  border-radius: 20px;  padding: 0.6rem 2.2rem;  margin: 0 0.5rem;  font-size: 1rem;  font-weight: bold;  box-shadow: 0 2px 8px #e74c3c22;  cursor: pointer;  transition: none;  }  .navigation-buttons button:disabled {  background: #f5b7b1;  color: #fff;  cursor: not-allowed;  box-shadow: none;  } |

**Penjelasan Program**

1. **Global Style**

body {

background: linear-gradient(135deg, #e3f7ff 60%, #fffde7 100%);

}

**Penjelasan**:

* Memberikan **background gradasi lembut** dari biru muda ke kuning muda.
* Efek visual ini membuat tampilan halaman terasa lebih segar dan profesional.

1. **Tombol Kembali**

.btn-back {

background: var(--secondary-color);

color: var(--primary-color);

border: 2px solid var(--primary-color);

border-radius: 8px;

padding: 0.7rem 1.5rem;

font-weight: 600;

margin-bottom: 1.5rem;

display: inline-flex;

align-items: center;

gap: 0.5rem;

text-decoration: none;

transition: background 0.2s, color 0.2s;

}

.btn-back:hover {

background: var(--primary-color);

color: #fff;

}

**Penjelasan**:

* Tombol untuk kembali ke dashboard.
* Warna dasar mengikuti tema (variabel CSS).
* Hover: berubah warna agar interaktif dan intuitif.

1. **Test Container (Kontainer Utama)**

.test-container {

max-width: 1100px;

margin: 2rem auto;

padding: 2rem;

background: #fff;

border-radius: 18px;

box-shadow: 0 4px 24px rgba(79,195,247,0.09);

display: flex;

gap: 2rem;

}

**Penjelasan**:

* Merupakan **wadah besar** yang membungkus seluruh elemen test.
* **Dua kolom**: sebelah kiri untuk navigasi soal, kanan untuk soal.
* Diberi padding dan bayangan lembut agar tampak elegan.

1. **Navigator Soal (Sidebar Kiri)**

.question-navigator {

width: 220px;

background: var(--accent-color);

border: 2px solid var(--primary-color);

border-radius: 12px;

box-shadow: 0 2px 12px rgba(0,0,0,0.06);

padding: 1.5rem 1rem;

margin-right: 1.5rem;

}

.question-navigator .navigator-grid {

display: grid;

grid-template-columns: repeat(5, 1fr);

gap: 0.5rem;

margin-bottom: 1.5rem;

}

.question-navigator button {

border: none;

border-radius: 6px;

padding: 0.5rem 0;

font-weight: 500;

background: #f1f3fa;

color: #4a55a2;

cursor: pointer;

transition: background 0.2s;

}

.question-navigator button.current {

background: var(--primary-color);

color: #fff;

}

.question-navigator button.answered {

background: var(--secondary-color);

color: var(--primary-color);

}

.question-navigator button.unanswered {

background: #fff;

color: var(--primary-color);

}

**Penjelasan**:

* **Navigasi nomor soal**, berbentuk grid 5 kolom.
* **Warna berdasarkan status**:
* .current: soal aktif (warna utama)
* .answered: sudah dijawab (kuning atau tema sekunder)
* .unanswered: putih (belum dijawab)
* Memudahkan pengguna **melompat ke soal tertentu**.

1. **Tombol Submit**

.submit-btn {

width: 100%;

background: #e74c3c;

color: #fff;

font-weight: 600;

border-radius: 18px;

padding: 0.8rem 2.5rem;

margin-top: 1.5rem;

border: none;

cursor: pointer;

font-size: 1.1rem;

box-shadow: 0 2px 8px #e74c3c22;

}

**Penjelasan**:

* Tombol besar dan mencolok untuk menyelesaikan tes.
* Warna merah menyiratkan tindakan penting atau final.

1. **Bagian Soal**

.question-section {

flex: 1;

background: #fff;

border-radius: 15px;

padding: 2rem;

box-shadow: 0 4px 20px rgba(0,0,0,0.05);

}

.question-header {

display: flex;

justify-content: space-between;

align-items: center;

margin-bottom: 1.5rem;

padding-bottom: 1rem;

border-bottom: 1px solid var(--border-color);

}

.timer {

background: var(--primary-color);

color: white;

padding: 0.7rem 1.5rem;

border-radius: 50px;

font-weight: 600;

box-shadow: 0 4px 15px rgba(0,0,0,0.1);

font-size: 1.1rem;

}

**Penjelasan**:

* **question-section**: area utama menampilkan soal dan jawaban.
* **question-header**: menampilkan nomor soal dan **timer**.
* Timer berwarna biru dan bulat, tampil mencolok di kanan atas soal.

1. **Pilihan Jawaban**

.options {

display: flex;

flex-direction: column;

gap: 1rem;

}

.option {

padding: 1rem;

border: 2px solid var(--border-color);

...

}

.option.selected {

border-color: var(--primary-color);

background: rgba(74, 85, 162, 0.1);

}

**Penjelasan**:

* Disusun vertikal dengan jarak antar opsi.
* Hover & klik akan menambahkan kelas .selected:
* Border menjadi warna primer
* Background sedikit transparan (highlight pilihan)

1. **Navigasi Soal (Next & Previous)**

.navigation-buttons button {

background: #e74c3c;

color: #fff;

border: none;

border-radius: 20px;

padding: 0.6rem 2.2rem;

margin: 0 0.5rem;

font-size: 1rem;

font-weight: bold;

box-shadow: 0 2px 8px #e74c3c22;

cursor: pointer;

transition: none;

}

.navigation-buttons button:disabled {

background: #f5b7b1;

color: #fff;

cursor: not-allowed;

box-shadow: none;

}

**Penjelasan**:

* Dua tombol untuk berpindah soal:
* **Background merah** dengan teks putih.
* Diberi bayangan halus.
* Jika tombol dinonaktifkan (disabled):
* Warna menjadi abu pucat
* Tidak dapat diklik (cursor: not-allowed)

## **Hasil Running Soal Test Listening**

* **Reading**
  + **Code Program HTML dan JavaScript**

**Internal serta Inline Style**

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <title>Listening Comprehension</title>  <link rel="stylesheet" href="../../css/global.css">  <link rel="stylesheet" href="../../css/pages/test/soal.css">  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">  </head>  <body>  <a href="/dashboard" class="btn btn-back" style="margin:1.5rem 2rem 0 2rem;">  <i class="fas fa-arrow-left"></i> Kembali ke Dashboard  </a>  <div class="test-container">  <aside class="question-navigator">  <div class="navigator-grid"></div>  <button class="submit-btn">Submit Test</button>  </aside>  <section class="question-section">  <div class="question-header">  <span class="question-number"></span>  <span class="timer">40:00</span>  </div>  <h2 class="question-title"></h2>  <div class="options"></div>  <div class="navigation-buttons">  <button class="prev-btn">Previous</button>  <button class="next-btn">Next</button>  </div>  </section>  </div>  <script>  document.addEventListener('DOMContentLoaded', async function() {  // Ambil soal reading  const res = await fetch('../../data/reading.json');  const data = await res.json();  const questions = data.questions;  const timeLimit = data.timeLimit || 3300; // detik  const mode = localStorage.getItem('testMode') || 'ujian'; // 'ujian' atau 'latihan'  let current = 0;  let answers = JSON.parse(localStorage.getItem('readingAnswers') || '[]');  if (answers.length !== questions.length) answers = Array(questions.length).fill(null);  // Timer  let timer = timeLimit;  const timerSpan = document.querySelector('.timer');  function updateTimer() {  const m = String(Math.floor(timer / 60)).padStart(2, '0');  const s = String(timer % 60).padStart(2, '0');  timerSpan.textContent = `${m}:${s}`;  if (timer <= 0) {  submitTest();  } else {  timer--;  setTimeout(updateTimer, 1000);  }  }  updateTimer(); // Timer selalu aktif di semua mode  function renderQuestion(idx) {  const q = questions[idx];  document.querySelector('.question-title').textContent = q.question;  // Render opsi  const opts = document.querySelector('.options');  opts.innerHTML = '';  q.options.forEach((opt, i) => {  const div = document.createElement('div');  div.className = 'option' + (answers[idx] === i ? ' selected' : '');  div.textContent = opt;  div.onclick = () => {  answers[idx] = i;  localStorage.setItem('readingAnswers', JSON.stringify(answers));  renderQuestion(idx);  renderNavigator();  // Feedback langsung (mode latihan)  if (mode === 'latihan') {  showFeedback(q, i);  }  };  opts.appendChild(div);  });  document.querySelector('.question-number').textContent = `Question ${idx + 1} of ${questions.length}`;  document.querySelector('.prev-btn').disabled = idx === 0;  document.querySelector('.next-btn').disabled = idx === questions.length - 1;  // Feedback area  let feedback = document.getElementById('feedback');  if (!feedback) {  feedback = document.createElement('div');  feedback.id = 'feedback';  feedback.style.marginTop = '1rem';  feedback.style.fontWeight = 'bold';  document.querySelector('.question-section').appendChild(feedback);  }  feedback.innerHTML = '';  }  function showFeedback(q, chosenIdx) {  const feedback = document.getElementById('feedback');  if (chosenIdx === q.correct) {  feedback.innerHTML = '<span style="color:green">Benar!</span>';  } else {  feedback.innerHTML = `<span style="color:red">Salah.</span> Kunci: <b>${q.options[q.correct]}</b>`;  }  }  function renderNavigator() {  const nav = document.querySelector('.navigator-grid');  nav.innerHTML = '';  questions.forEach((\_, i) => {  const btn = document.createElement('button');  btn.textContent = i + 1;  btn.className = (i === current ? 'current ' : '') +  (answers[i] !== null ? 'answered' : 'unanswered');  btn.onclick = () => {  current = i;  renderQuestion(current);  renderNavigator();  };  nav.appendChild(btn);  });  }  document.querySelector('.prev-btn').onclick = () => {  if (current > 0) {  current--;  renderQuestion(current);  renderNavigator();  }  };  document.querySelector('.next-btn').onclick = () => {  if (current < questions.length - 1) {  current++;  renderQuestion(current);  renderNavigator();  }  };  document.querySelector('.submit-btn').onclick = submitTest;  function submitTest() {  if (mode === 'latihan') {  showPembahasan();  return;  }  // Hitung skor  let score = 0;  questions.forEach((q, i) => {  if (answers[i] === q.correct) score++;  });  localStorage.setItem('readingScore', score);  localStorage.setItem('readingTotal', questions.length);  localStorage.removeItem('readingAnswers');  window.location.href = 'hasil-reading.html';  }  function showPembahasan() {  document.querySelector('.test-container').innerHTML = `  <div class="pembahasan-container">  <h2 class="pembahasan-title">Pembahasan Reading</h2>  <div class="table-responsive">  <table class="table-pembahasan">  <thead>  <tr>  <th>No</th>  <th>Pertanyaan</th>  <th>Jawaban Anda</th>  <th>Kunci</th>  <th>Pembahasan</th>  </tr>  </thead>  <tbody>  ${questions.map((q, i) => {  const userAns = answers[i];  const benar = userAns === q.correct;  return `  <tr>  <td>${i+1}</td>  <td style="text-align:left">${q.question}</td>  <td style="text-align:left">  <span class="${userAns === null ? 'belum' : benar ? 'benar' : 'salah'}">  ${userAns !== null ? q.options[userAns] : '<i>Belum dijawab</i>'}  </span>  </td>  <td style="text-align:left"><span class="benar">${q.options[q.correct]}</span></td>  <td style="text-align:left">${q.explanation || '-'}</td>  </tr>  `;  }).join('')}  </tbody>  </table>  </div>  <a href="/dashboard" class="btn-dashboard">Kembali ke Dashboard</a>  </div>  <style>  .pembahasan-container {  max-width: 980px;  margin: 2.5rem auto;  background: #fff;  border-radius: 18px;  padding: 2.5rem 1.5rem 2rem 1.5rem;  box-shadow: 0 4px 24px #e3eafc;  animation: fadeIn 0.7s;  }  .pembahasan-title {  margin-bottom: 2rem;  font-size: 2rem;  color: #2d3a4a;  letter-spacing: 0.5px;  text-align: center;  }  .table-responsive { overflow-x: auto; }  .table-pembahasan {  border-collapse: separate;  border-spacing: 0;  width: 100%;  font-size: 1.07em;  background: #fafdff;  box-shadow: 0 1px 8px #f0f4fa;  }  .table-pembahasan th, .table-pembahasan td {  border: 1px solid #e0e0e0;  padding: 13px 10px;  vertical-align: top;  }  .table-pembahasan th {  background: #e3eafc;  position: sticky;  top: 0;  z-index: 2;  font-weight: 600;  color: #223;  text-align: center;  }  .table-pembahasan tr:nth-child(even) { background: #f6faff; }  .table-pembahasan tr:hover { background: #eaf2fb; transition: background 0.2s; }  .benar {  color: #219150;  font-weight: 600;  background: #e7fbe9;  border-radius: 6px;  padding: 2px 8px;  }  .salah {  color: #d32f2f;  font-weight: 600;  background: #ffeaea;  border-radius: 6px;  padding: 2px 8px;  }  .belum {  color: #888;  font-style: italic;  }  .btn-dashboard {  margin-top: 2.2rem;  display: inline-block;  background: #2471f3;  color: #fff;  padding: 0.8em 2.2em;  border: none;  border-radius: 8px;  font-size: 1.1em;  font-weight: 500;  box-shadow: 0 2px 8px #e3eafc;  transition: background 0.2s, box-shadow 0.2s;  text-decoration: none;  cursor: pointer;  }  .btn-dashboard:hover {  background: #1746a2;  box-shadow: 0 4px 16px #dbeafe;  }  @media (max-width: 700px) {  .pembahasan-container { padding: 1rem 0.2rem; }  .table-pembahasan th, .table-pembahasan td { font-size: 0.97em; padding: 7px 4px; }  .pembahasan-title { font-size: 1.2rem; }  }  @keyframes fadeIn {  from { opacity: 0; transform: translateY(30px);}  to { opacity: 1; transform: none;}  }  </style>  `;  // Reset jawaban setelah pembahasan  localStorage.removeItem('readingAnswers');  }  // Tampilkan mode aktif di pojok kanan atas  const header = document.querySelector('.question-header');  if (header) {  const modeLabel = document.createElement('span');  modeLabel.textContent = mode === 'ujian' ? 'Mode Ujian' : 'Mode Latihan';  modeLabel.style.background = mode === 'ujian' ? '#4a55a2' : '#2ecc71';  modeLabel.style.color = '#fff';  modeLabel.style.padding = '0.3rem 1rem';  modeLabel.style.borderRadius = '20px';  modeLabel.style.marginLeft = '1rem';  header.appendChild(modeLabel);  }  // Render awal  renderQuestion(current);  renderNavigator();  });  </script>  </body>  </html> |

**Penjelasan Program**

1. **Struktur Dokumen HTML**

<!DOCTYPE html>

<html lang="id">

<head>

<meta charset="UTF-8">

<title>Listening Comprehension</title>

<link rel="stylesheet" href="../../css/global.css">

<link rel="stylesheet" href="../../css/pages/test/soal.css">

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">

</head>

**Penjelasan**:

* <!DOCTYPE html> → Menandakan dokumen ini berbasis HTML5.
* lang="id" → Bahasa utama halaman adalah Bahasa Indonesia.
* **<title>** menampilkan judul tab browser (judul belum diubah dari listening).
* **CSS**:
* global.css → Gaya umum semua halaman.
* soal.css → Gaya khusus halaman soal (digunakan ulang dari listening).
* Font Awesome → Ikon untuk tombol dan navigasi.

1. **Bagian Body**
2. **Tombol Kembali**

<a href="/dashboard" class="btn btn-back" style="margin:1.5rem 2rem 0 2rem;">

<i class="fas fa-arrow-left"></i> Kembali ke Dashboard

</a>

**Penjelasan**:

* Tombol kembali ke dashboard pengguna.

1. **Container Test**

<div class="test-container">

<aside class="question-navigator">

<div class="navigator-grid"></div>

<button class="submit-btn">Submit Test</button>

</aside>

<section class="question-section">

<div class="question-header">

<span class="question-number"></span>

<span class="timer">40:00</span>

</div>

<h2 class="question-title"></h2>

<div class="options"></div>

<div class="navigation-buttons">

<button class="prev-btn">Previous</button>

<button class="next-btn">Next</button>

</div>

</section>

</div>

**Penjelasan**:

* <aside class="question-navigator">
* Berisi daftar tombol nomor soal.
* Tombol Submit Test di bawahnya.
* <section class="question-section">
* Menampilkan nomor soal
* Menampilkan timer mundur
* Menampilkan judul soal
* Menampilkan opsi pilihan jawaban
* Menampilkan tombol "Previous" dan "Next".

1. **Script JavaScript**
2. **Pengambilan Data Soal**

const res = await fetch('../../data/reading.json');

const data = await res.json();

const questions = data.questions;

**Penjelasan**:

* Mengambil soal dari file reading.json.
* Variabel questions menyimpan semua soal.

1. **Timer**

let timer = timeLimit;

const timerSpan = document.querySelector('.timer');

function updateTimer() {

const m = String(Math.floor(timer / 60)).padStart(2, '0');

const s = String(timer % 60).padStart(2, '0');

timerSpan.textContent = `${m}:${s}`;

if (timer <= 0) {

submitTest();

} else {

timer--;

setTimeout(updateTimer, 1000);

}

}

updateTimer();

**Penjelasan**:

* Timer menghitung mundur dari 3300 detik (55 menit).
* Format MM:SS → jika habis, otomatis submit.

1. **Fungsi renderQuestion(idx)**

**function** renderQuestion(idx) {

const q = questions[idx];

document.querySelector('.question-title').textContent = q.question;

// Render opsi

const opts = document.querySelector('.options');

opts.innerHTML = '';

q.options.forEach((opt, i) => {

const div = document.createElement('div');

div.className = 'option' + (answers[idx] === i ? ' selected' : '');

div.textContent = opt;

div.onclick = () => {

answers[idx] = i;

localStorage.setItem('readingAnswers', JSON.stringify(answers));

renderQuestion(idx);

renderNavigator();

// Feedback langsung (mode latihan)

if (mode === 'latihan') {

showFeedback(q, i);

}

};

opts.appendChild(div);

});

document.querySelector('.question-number').textContent = `Question ${idx + 1} of ${questions.length}`;

document.querySelector('.prev-btn').disabled = idx === 0;

document.querySelector('.next-btn').disabled = idx === questions.length - 1;

// Feedback area

let feedback = document.getElementById('feedback');

if (!feedback) {

feedback = document.createElement('div');

feedback.id = 'feedback';

feedback.style.marginTop = '1rem';

feedback.style.fontWeight = 'bold';

document.querySelector('.question-section').appendChild(feedback);

}

feedback.innerHTML = '';

}

**Menampilkan**:

* Teks pertanyaan (q.question)
* Opsi jawaban → Klik untuk memilih
* Warna highlight untuk jawaban yang dipilih
* Jika mode = latihan → tampilkan feedback benar/salah

1. **Feedback Jawaban**

function showFeedback(q, chosenIdx) {

const feedback = document.getElementById('feedback');

if (chosenIdx === q.correct) {

feedback.innerHTML = '<span style="color:green">Benar!</span>';

} else {

feedback.innerHTML = `<span style="color:red">Salah.</span> Kunci: <b>${q.options[q.correct]}</b>`;

}

}

**Penjelasan**:

* Menampilkan pesan "Benar!" atau "Salah." dengan warna berbeda.
* Juga menampilkan **kunci jawaban** saat salah.

1. **Navigator Soal**

function renderNavigator() {

const nav = document.querySelector('.navigator-grid');

nav.innerHTML = '';

questions.forEach((\_, i) => {

const btn = document.createElement('button');

btn.textContent = i + 1;

btn.className = (i === current ? 'current ' : '') +

(answers[i] !== null ? 'answered' : 'unanswered');

btn.onclick = () => {

current = i;

renderQuestion(current);

renderNavigator();

};

nav.appendChild(btn);

});

}

**Penjelasan**:

* Menampilkan tombol nomor soal:
* Beri kelas .current, .answered, atau .unanswered
* Klik tombol akan menampilkan soal sesuai indeks.

1. **Navigasi Next & Previous**

document.querySelector('.prev-btn').onclick = () => {

if (current > 0) {

current--;

renderQuestion(current);

renderNavigator();

}

};

document.querySelector('.next-btn').onclick = () => {

if (current < questions.length - 1) {

current++;

renderQuestion(current);

renderNavigator();

}

};

document.querySelector('.submit-btn').onclick = submitTest;

**Penjelasan**:

* Tombol Previous dan Next untuk navigasi antar soal.

1. **Submit Test**

function submitTest() {

if (mode === 'latihan') {

showPembahasan();

return;

}

// Hitung skor

let score = 0;

questions.forEach((q, i) => {

if (answers[i] === q.correct) score++;

});

localStorage.setItem('readingScore', score);

localStorage.setItem('readingTotal', questions.length);

localStorage.removeItem('readingAnswers');

window.location.href = 'hasil-reading.html';

}

**Penjelasan**:

* Jika mode = **latihan** → tampilkan pembahasan langsung.
* Jika mode = **ujian**:
* Hitung jumlah benar
* Simpan ke localStorage
* Pindah ke hasil-reading.html

1. **Pembahasan Soal**

function showPembahasan() {

document.querySelector('.test-container').innerHTML = `

<div class="pembahasan-container">

<h2 class="pembahasan-title">Pembahasan Reading</h2>

<div class="table-responsive">

<table class="table-pembahasan">

<thead>

<tr>

<th>No</th>

<th>Pertanyaan</th>

<th>Jawaban Anda</th>

<th>Kunci</th>

<th>Pembahasan</th>

</tr>

</thead>

<tbody>

${questions.map((q, i) => {

const userAns = answers[i];

const benar = userAns === q.correct;

return `

<tr>

<td>${i+1}</td>

<td style="text-align:left">${q.question}</td>

<td style="text-align:left">

<span class="${userAns === null ? 'belum' : benar ? 'benar' : 'salah'}">

${userAns !== null ? q.options[userAns] : '<i>Belum dijawab</i>'}

</span>

</td>

<td style="text-align:left"><span class="benar">${q.options[q.correct]}</span></td>

<td style="text-align:left">${q.explanation || '-'}</td>

</tr>

`;

}).join('')}

</tbody>

</table>

</div>

<a href="/dashboard" class="btn-dashboard">Kembali ke Dashboard</a>

</div>

<style>

.pembahasan-container {

max-width: 980px;

margin: 2.5rem auto;

background: #fff;

border-radius: 18px;

padding: 2.5rem 1.5rem 2rem 1.5rem;

box-shadow: 0 4px 24px #e3eafc;

animation: fadeIn 0.7s;

}

.pembahasan-title {

margin-bottom: 2rem;

font-size: 2rem;

color: #2d3a4a;

letter-spacing: 0.5px;

text-align: center;

}

.table-responsive { overflow-x: auto; }

.table-pembahasan {

border-collapse: separate;

border-spacing: 0;

width: 100%;

font-size: 1.07em;

background: #fafdff;

box-shadow: 0 1px 8px #f0f4fa;

}

.table-pembahasan th, .table-pembahasan td {

border: 1px solid #e0e0e0;

padding: 13px 10px;

vertical-align: top;

}

.table-pembahasan th {

background: #e3eafc;

position: sticky;

top: 0;

z-index: 2;

font-weight: 600;

color: #223;

text-align: center;

}

.table-pembahasan tr:nth-child(even) { background: #f6faff; }

.table-pembahasan tr:hover { background: #eaf2fb; transition: background 0.2s; }

.benar {

color: #219150;

font-weight: 600;

background: #e7fbe9;

border-radius: 6px;

padding: 2px 8px;

}

.salah {

color: #d32f2f;

font-weight: 600;

background: #ffeaea;

border-radius: 6px;

padding: 2px 8px;

}

.belum {

color: #888;

font-style: italic;

}

.btn-dashboard {

margin-top: 2.2rem;

display: inline-block;

background: #2471f3;

color: #fff;

padding: 0.8em 2.2em;

border: none;

border-radius: 8px;

font-size: 1.1em;

font-weight: 500;

box-shadow: 0 2px 8px #e3eafc;

transition: background 0.2s, box-shadow 0.2s;

text-decoration: none;

cursor: pointer;

}

.btn-dashboard:hover {

background: #1746a2;

box-shadow: 0 4px 16px #dbeafe;

}

@media (max-width: 700px) {

.pembahasan-container { padding: 1rem 0.2rem; }

.table-pembahasan th, .table-pembahasan td { font-size: 0.97em; padding: 7px 4px; }

.pembahasan-title { font-size: 1.2rem; }

}

@keyframes fadeIn {

from { opacity: 0; transform: translateY(30px);}

to { opacity: 1; transform: none;}

}

</style>

`;

// Reset jawaban setelah pembahasan

localStorage.removeItem('readingAnswers');

}

**Penjelasan**:

* Menampilkan seluruh soal dalam format tabel:
* Nomor, pertanyaan, jawaban Anda, kunci jawaban, pembahasan
* Desain tabel responsif dan elegan
* Warna status:
* Hijau = benar
* Merah = salah
* Abu-abu = belum dijawab

1. **Tampilkan Mode Aktif**

const header = document.querySelector('.question-header');

if (header) {

const modeLabel = document.createElement('span');

modeLabel.textContent = mode === 'ujian' ? 'Mode Ujian' : 'Mode Latihan';

modeLabel.style.background = mode === 'ujian' ? '#4a55a2' : '#2ecc71';

modeLabel.style.color = '#fff';

modeLabel.style.padding = '0.3rem 1rem';

modeLabel.style.borderRadius = '20px';

modeLabel.style.marginLeft = '1rem';

header.appendChild(modeLabel);

}

**Penjelasan**:

* Mode ditampilkan di kanan atas:
* Mode Ujian (warna biru)
* Mode Latihan (warna hijau)

1. **Styling Inline (untuk Pembahasan)**

.pembahasan-container { ... }

.table-pembahasan th, td { ... }

.benar, .salah, .belum { ... }

**Penjelasan**:

* Desain tabel:
* Border lembut
* Background selang-seling
* Efek hover baris dan animasi fade in
* Tombol "Kembali ke Dashboard" juga tersedia di bawah tabe
  + **Code Program CSS**

|  |
| --- |
| body {  background: linear-gradient(135deg, #e3f7ff 60%, #fffde7 100%);  }  .btn-back {  background: var(--secondary-color);  color: var(--primary-color);  border: 2px solid var(--primary-color);  border-radius: 8px;  padding: 0.7rem 1.5rem;  font-weight: 600;  margin-bottom: 1.5rem;  display: inline-flex;  align-items: center;  gap: 0.5rem;  text-decoration: none;  transition: background 0.2s, color 0.2s;  }  .btn-back:hover {  background: var(--primary-color);  color: #fff;  }  .test-container {  max-width: 1100px;  margin: 2rem auto;  padding: 2rem;  background: #fff;  border-radius: 18px;  box-shadow: 0 4px 24px rgba(79,195,247,0.09);  display: flex;  gap: 2rem;  }  .question-navigator {  width: 220px;  background: var(--accent-color);  border: 2px solid var(--primary-color);  border-radius: 12px;  box-shadow: 0 2px 12px rgba(0,0,0,0.06);  padding: 1.5rem 1rem;  margin-right: 1.5rem;  }  .question-navigator .navigator-grid {  display: grid;  grid-template-columns: repeat(5, 1fr);  gap: 0.5rem;  margin-bottom: 1.5rem;  }  .question-navigator button {  border: none;  border-radius: 6px;  padding: 0.5rem 0;  font-weight: 500;  background: #f1f3fa;  color: #4a55a2;  cursor: pointer;  transition: background 0.2s;  }  .question-navigator button.current {  background: var(--primary-color);  color: #fff;  }  .question-navigator button.answered {  background: var(--secondary-color);  color: var(--primary-color);  }  .question-navigator button.unanswered {  background: #fff;  color: var(--primary-color);  }  .submit-btn {  width: 100%;  background: #e74c3c;  color: #fff;  font-weight: 600;  border-radius: 18px;  padding: 0.8rem 2.5rem;  margin-top: 1.5rem;  border: none;  cursor: pointer;  font-size: 1.1rem;  box-shadow: 0 2px 8px #e74c3c22;  }  .question-section {  flex: 1;  background: #fff;  border-radius: 15px;  padding: 2rem;  box-shadow: 0 4px 20px rgba(0,0,0,0.05);  }  .question-header {  display: flex;  justify-content: space-between;  align-items: center;  margin-bottom: 1.5rem;  padding-bottom: 1rem;  border-bottom: 1px solid var(--border-color);  }  .timer {  background: var(--primary-color);  color: white;  padding: 0.7rem 1.5rem;  border-radius: 50px;  font-weight: 600;  box-shadow: 0 4px 15px rgba(0,0,0,0.1);  font-size: 1.1rem;  }  .options {  display: flex;  flex-direction: column;  gap: 1rem;  margin-top: 1.5rem;  }  .option {  padding: 1rem;  border: 2px solid var(--border-color);  border-radius: 8px;  cursor: pointer;  transition: all 0.3s ease;  background: #f8f9fa;  font-size: 1rem;  }  .option.selected {  border-color: var(--primary-color);  background: rgba(74, 85, 162, 0.1);  }  .navigation-buttons {  display: flex;  justify-content: space-between;  margin-top: 2rem;  }  /\* Tombol Previous & Next \*/  .navigation-buttons button {  background: #e74c3c;  color: #fff;  border: none;  border-radius: 20px;  padding: 0.6rem 2.2rem;  margin: 0 0.5rem;  font-size: 1rem;  font-weight: bold;  box-shadow: 0 2px 8px #e74c3c22;  cursor: pointer;  transition: none;  }  .navigation-buttons button:disabled {  background: #f5b7b1;  color: #fff;  cursor: not-allowed;  box-shadow: none;  } |

**Penjelasan Program**

1. **Global Style**

body {

background: linear-gradient(135deg, #e3f7ff 60%, #fffde7 100%);

}

**Penjelasan**:

* Memberikan **background gradasi lembut** dari biru muda ke kuning muda.
* Efek visual ini membuat tampilan halaman terasa lebih segar dan profesional.

1. **Tombol Kembali**

.btn-back {

background: var(--secondary-color);

color: var(--primary-color);

border: 2px solid var(--primary-color);

border-radius: 8px;

padding: 0.7rem 1.5rem;

font-weight: 600;

margin-bottom: 1.5rem;

display: inline-flex;

align-items: center;

gap: 0.5rem;

text-decoration: none;

transition: background 0.2s, color 0.2s;

}

.btn-back:hover {

background: var(--primary-color);

color: #fff;

}

**Penjelasan**:

* Tombol untuk kembali ke dashboard.
* Warna dasar mengikuti tema (variabel CSS).
* Hover: berubah warna agar interaktif dan intuitif.

1. **Test Container (Kontainer Utama)**

.test-container {

max-width: 1100px;

margin: 2rem auto;

padding: 2rem;

background: #fff;

border-radius: 18px;

box-shadow: 0 4px 24px rgba(79,195,247,0.09);

display: flex;

gap: 2rem;

}

**Penjelasan**:

* Merupakan **wadah besar** yang membungkus seluruh elemen test.
* **Dua kolom**: sebelah kiri untuk navigasi soal, kanan untuk soal.
* Diberi padding dan bayangan lembut agar tampak elegan.

1. **Navigator Soal (Sidebar Kiri)**

.question-navigator {

width: 220px;

background: var(--accent-color);

border: 2px solid var(--primary-color);

border-radius: 12px;

box-shadow: 0 2px 12px rgba(0,0,0,0.06);

padding: 1.5rem 1rem;

margin-right: 1.5rem;

}

.question-navigator .navigator-grid {

display: grid;

grid-template-columns: repeat(5, 1fr);

gap: 0.5rem;

margin-bottom: 1.5rem;

}

.question-navigator button {

border: none;

border-radius: 6px;

padding: 0.5rem 0;

font-weight: 500;

background: #f1f3fa;

color: #4a55a2;

cursor: pointer;

transition: background 0.2s;

}

.question-navigator button.current {

background: var(--primary-color);

color: #fff;

}

.question-navigator button.answered {

background: var(--secondary-color);

color: var(--primary-color);

}

.question-navigator button.unanswered {

background: #fff;

color: var(--primary-color);

}

**Penjelasan**:

* **Navigasi nomor soal**, berbentuk grid 5 kolom.
* **Warna berdasarkan status**:
* .current: soal aktif (warna utama)
* .answered: sudah dijawab (kuning atau tema sekunder)
* .unanswered: putih (belum dijawab)
* Memudahkan pengguna **melompat ke soal tertentu**.

1. **Tombol Submit**

.submit-btn {

width: 100%;

background: #e74c3c;

color: #fff;

font-weight: 600;

border-radius: 18px;

padding: 0.8rem 2.5rem;

margin-top: 1.5rem;

border: none;

cursor: pointer;

font-size: 1.1rem;

box-shadow: 0 2px 8px #e74c3c22;

}

**Penjelasan**:

* Tombol besar dan mencolok untuk menyelesaikan tes.
* Warna merah menyiratkan tindakan penting atau final.

1. **Bagian Soal**

.question-section {

flex: 1;

background: #fff;

border-radius: 15px;

padding: 2rem;

box-shadow: 0 4px 20px rgba(0,0,0,0.05);

}

.question-header {

display: flex;

justify-content: space-between;

align-items: center;

margin-bottom: 1.5rem;

padding-bottom: 1rem;

border-bottom: 1px solid var(--border-color);

}

.timer {

background: var(--primary-color);

color: white;

padding: 0.7rem 1.5rem;

border-radius: 50px;

font-weight: 600;

box-shadow: 0 4px 15px rgba(0,0,0,0.1);

font-size: 1.1rem;

}

**Penjelasan**:

* **question-section**: area utama menampilkan soal dan jawaban.
* **question-header**: menampilkan nomor soal dan **timer**.
* Timer berwarna biru dan bulat, tampil mencolok di kanan atas soal.

1. **Pilihan Jawaban**

.options {

display: flex;

flex-direction: column;

gap: 1rem;

}

.option {

padding: 1rem;

border: 2px solid var(--border-color);

...

}

.option.selected {

border-color: var(--primary-color);

background: rgba(74, 85, 162, 0.1);

}

**Penjelasan**:

* Disusun vertikal dengan jarak antar opsi.
* Hover & klik akan menambahkan kelas .selected:
* Border menjadi warna primer
* Background sedikit transparan (highlight pilihan)

1. **Navigasi Soal (Next & Previous)**

.navigation-buttons button {

background: #e74c3c;

color: #fff;

border: none;

border-radius: 20px;

padding: 0.6rem 2.2rem;

margin: 0 0.5rem;

font-size: 1rem;

font-weight: bold;

box-shadow: 0 2px 8px #e74c3c22;

cursor: pointer;

transition: none;

}

.navigation-buttons button:disabled {

background: #f5b7b1;

color: #fff;

cursor: not-allowed;

box-shadow: none;

}

**Penjelasan**:

* Dua tombol untuk berpindah soal:
* **Background merah** dengan teks putih.
* Diberi bayangan halus.
* Jika tombol dinonaktifkan (disabled):
* Warna menjadi abu pucat
* Tidak dapat diklik (cursor: not-allowed)

## **Hasil Running Soal Test Reading**

* **Structure**
  + **Code Program HTML dan JavaScript Internal serta Inline Style**

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <title>Structure and Written Expression</title>  <link rel="stylesheet" href="../../css/global.css">  <link rel="stylesheet" href="../../css/pages/test/soal.css">  </head>  <body>  <a href="/dashboard" class="btn btn-back" style="margin:1.5rem 2rem 0 2rem;">  &larr; Kembali ke Dashboard  </a>  <div class="test-container">  <aside class="question-navigator">  <div class="navigator-grid"></div>  <button class="submit-btn">Submit Test</button>  </aside>  <section class="question-section">  <div class="question-header">  <span class="question-number"></span>  <span class="timer">25:00</span>  </div>  <h2 class="question-title"></h2>  <div class="options"></div>  <div class="navigation-buttons">  <button class="prev-btn">Previous</button>  <button class="next-btn">Next</button>  </div>  </section>  </div>  <script>  document.addEventListener('DOMContentLoaded', async function() {  // Ambil soal structure  const res = await fetch('../../data/structure.json');  const data = await res.json();  const questions = data.questions;  const timeLimit = data.timeLimit || 1500; // detik  const mode = localStorage.getItem('testMode') || 'ujian'; // 'ujian' atau 'latihan'  let current = 0;  let answers = JSON.parse(localStorage.getItem('structureAnswers') || '[]');  if (!Array.isArray(answers) || answers.length !== questions.length) answers = Array(questions.length).fill(null);  // Timer  let timer = timeLimit;  const timerSpan = document.querySelector('.timer');  function updateTimer() {  const m = String(Math.floor(timer / 60)).padStart(2, '0');  const s = String(timer % 60).padStart(2, '0');  timerSpan.textContent = `${m}:${s}`;  if (timer <= 0) {  submitTest();  } else {  timer--;  setTimeout(updateTimer, 1000);  }  }  updateTimer(); // Timer selalu aktif di semua mode  function renderQuestion(idx) {  const q = questions[idx];  document.querySelector('.question-title').textContent = q.question;  // Render opsi  const opts = document.querySelector('.options');  opts.innerHTML = '';  q.options.forEach((opt, i) => {  const div = document.createElement('div');  div.className = 'option' + (answers[idx] === i ? ' selected' : '');  div.textContent = opt;  div.onclick = () => {  answers[idx] = i;  localStorage.setItem('structureAnswers', JSON.stringify(answers));  renderQuestion(idx);  renderNavigator();  };  opts.appendChild(div);  });  document.querySelector('.question-number').textContent = `Question ${idx + 1} of ${questions.length}`;  document.querySelector('.prev-btn').disabled = idx === 0;  document.querySelector('.next-btn').disabled = idx === questions.length - 1;  }  function renderNavigator() {  const nav = document.querySelector('.navigator-grid');  nav.innerHTML = '';  questions.forEach((\_, i) => {  const btn = document.createElement('button');  btn.textContent = i + 1;  btn.className = (i === current ? 'current ' : '') +  (answers[i] !== null ? 'answered' : 'unanswered');  btn.onclick = () => {  current = i;  renderQuestion(current);  renderNavigator();  };  nav.appendChild(btn);  });  }  document.querySelector('.prev-btn').onclick = () => {  if (current > 0) {  current--;  renderQuestion(current);  renderNavigator();  }  };  document.querySelector('.next-btn').onclick = () => {  if (current < questions.length - 1) {  current++;  renderQuestion(current);  renderNavigator();  }  };  document.querySelector('.submit-btn').onclick = submitTest;  function submitTest() {  if (mode === 'latihan') {  showPembahasan();  return;  }  // Hitung skor  let score = 0;  questions.forEach((q, i) => {  if (answers[i] === q.correct) score++;  });  localStorage.setItem('structureScore', score);  localStorage.setItem('structureTotal', questions.length);  localStorage.removeItem('structureAnswers');  window.location.href = 'hasil-structure.html';  }  function showPembahasan() {  document.querySelector('.test-container').innerHTML = `  <div class="pembahasan-container">  <h2 class="pembahasan-title">Pembahasan Structure</h2>  <div class="table-responsive">  <table class="table-pembahasan">  <thead>  <tr>  <th>No</th>  <th>Pertanyaan</th>  <th>Jawaban Anda</th>  <th>Kunci</th>  <th>Pembahasan</th>  </tr>  </thead>  <tbody>  ${questions.map((q, i) => {  const userAns = answers[i];  const benar = userAns === q.correct;  return `  <tr>  <td>${i+1}</td>  <td style="text-align:left">${q.question}</td>  <td style="text-align:left">  <span class="${userAns === null ? 'belum' : benar ? 'benar' : 'salah'}">  ${userAns !== null ? q.options[userAns] : '<i>Belum dijawab</i>'}  </span>  </td>  <td style="text-align:left"><span class="benar">${q.options[q.correct]}</span></td>  <td style="text-align:left">${q.explanation || '-'}</td>  </tr>  `;  }).join('')}  </tbody>  </table>  </div>  <a href="/dashboard" class="btn-dashboard">Kembali ke Dashboard</a>  </div>  <style>  .pembahasan-container {  max-width: 980px;  margin: 2.5rem auto;  background: #fff;  border-radius: 18px;  padding: 2.5rem 1.5rem 2rem 1.5rem;  box-shadow: 0 4px 24px #e3eafc;  animation: fadeIn 0.7s;  }  .pembahasan-title {  margin-bottom: 2rem;  font-size: 2rem;  color: #2d3a4a;  letter-spacing: 0.5px;  text-align: center;  }  .table-responsive { overflow-x: auto; }  .table-pembahasan {  border-collapse: separate;  border-spacing: 0;  width: 100%;  font-size: 1.07em;  background: #fafdff;  box-shadow: 0 1px 8px #f0f4fa;  }  .table-pembahasan th, .table-pembahasan td {  border: 1px solid #e0e0e0;  padding: 13px 10px;  vertical-align: top;  }  .table-pembahasan th {  background: #e3eafc;  position: sticky;  top: 0;  z-index: 2;  font-weight: 600;  color: #223;  text-align: center;  }  .table-pembahasan tr:nth-child(even) { background: #f6faff; }  .table-pembahasan tr:hover { background: #eaf2fb; transition: background 0.2s; }  .benar {  color: #219150;  font-weight: 600;  background: #e7fbe9;  border-radius: 6px;  padding: 2px 8px;  }  .salah {  color: #d32f2f;  font-weight: 600;  background: #ffeaea;  border-radius: 6px;  padding: 2px 8px;  }  .belum {  color: #888;  font-style: italic;  }  .btn-dashboard {  margin-top: 2.2rem;  display: inline-block;  background: #2471f3;  color: #fff;  padding: 0.8em 2.2em;  border: none;  border-radius: 8px;  font-size: 1.1em;  font-weight: 500;  box-shadow: 0 2px 8px #e3eafc;  transition: background 0.2s, box-shadow 0.2s;  text-decoration: none;  cursor: pointer;  }  .btn-dashboard:hover {  background: #1746a2;  box-shadow: 0 4px 16px #dbeafe;  }  @media (max-width: 700px) {  .pembahasan-container { padding: 1rem 0.2rem; }  .table-pembahasan th, .table-pembahasan td { font-size: 0.97em; padding: 7px 4px; }  .pembahasan-title { font-size: 1.2rem; }  }  @keyframes fadeIn {  from { opacity: 0; transform: translateY(30px);}  to { opacity: 1; transform: none;}  }  </style>  `;  // Reset jawaban setelah pembahasan  localStorage.removeItem('structureAnswers');  }  // Tampilkan mode aktif di pojok kanan atas  const header = document.querySelector('.question-header');  if (header) {  const modeLabel = document.createElement('span');  modeLabel.textContent = mode === 'ujian' ? 'Mode Ujian' : 'Mode Latihan';  modeLabel.style.background = mode === 'ujian' ? '#4a55a2' : '#2ecc71';  modeLabel.style.color = '#fff';  modeLabel.style.padding = '0.3rem 1rem';  modeLabel.style.borderRadius = '20px';  modeLabel.style.marginLeft = '1rem';  header.appendChild(modeLabel);  }  // Render awal  renderQuestion(current);  renderNavigator();  });  </script>  </body>  </html> |

**Penjelasan Program**

1. **Struktur Dokumen HTML**

<!DOCTYPE html>

<html lang="id">

<head>

<meta charset="UTF-8">

<title>Structure and Written Expression</title>

<link rel="stylesheet" href="../../css/global.css">

<link rel="stylesheet" href="../../css/pages/test/soal.css">

</head>

**Penjelasan**:

* Menyatakan bahwa dokumen ini merupakan HTML5.
* Menggunakan bahasa utama **Bahasa Indonesia** (lang="id").
* **<title>**: Judul yang tampil di tab browser.
* Memuat:
* global.css: untuk gaya umum website.
* soal.css: untuk gaya khusus halaman test.

1. **Bagian Body**
2. **Tombol Kembali**

<a href="/dashboard" class="btn btn-back" style="margin:1.5rem 2rem 0 2rem;">

&larr; Kembali ke Dashboard

</a>

**Penjelasan**:

* Tombol untuk kembali ke dashboard pengguna.

1. **Kontainer Utama**

<div class="test-container">

<aside class="question-navigator">

<div class="navigator-grid"></div>

<button class="submit-btn">Submit Test</button>

</aside>

<section class="question-section">

<div class="question-header">

<span class="question-number"></span>

<span class="timer">25:00</span>

</div>

<h2 class="question-title"></h2>

<div class="options"></div>

<div class="navigation-buttons">

<button class="prev-btn">Previous</button>

<button class="next-btn">Next</button>

</div>

</section>

</div>

**Penjelasan**:

Terdiri dari dua bagian:

* **.question-navigator** (kiri):
* Menampilkan daftar nomor soal (grid).
* Tombol submit.
* **.question-section** (kanan):
* Nomor soal & timer
* Pertanyaan
* Opsi jawaban
* Tombol navigasi: Previous & Next

1. **Script JavaScript**

Semua script berjalan saat halaman dimuat (DOMContentLoaded).

1. **Ambil Data Soal**

const res = await fetch('../../data/structure.json');

const data = await res.json();

const questions = data.questions;

**Penjelasan**:

* Mengambil soal dari file structure.json.

1. **Timer**

let timer = timeLimit;

const timerSpan = document.querySelector('.timer');

function updateTimer() {

const m = String(Math.floor(timer / 60)).padStart(2, '0');

const s = String(timer % 60).padStart(2, '0');

timerSpan.textContent = `${m}:${s}`;

if (timer <= 0) {

submitTest();

} else {

timer--;

setTimeout(updateTimer, 1000);

}

}

updateTimer();

**Penjelasan**:

* Durasi 25 menit (1500 detik).
* Timer akan menampilkan waktu mundur di bagian atas kanan.

1. **Fungsi renderQuestion(idx)**

function renderQuestion(idx) {

const q = questions[idx];

document.querySelector('.question-title').textContent = q.question;

// Render opsi

const opts = document.querySelector('.options');

opts.innerHTML = '';

q.options.forEach((opt, i) => {

const div = document.createElement('div');

div.className = 'option' + (answers[idx] === i ? ' selected' : '');

div.textContent = opt;

div.onclick = () => {

answers[idx] = i;

localStorage.setItem('structureAnswers', JSON.stringify(answers));

renderQuestion(idx);

renderNavigator();

};

opts.appendChild(div);

});

document.querySelector('.question-number').textContent = `Question ${idx + 1} of ${questions.length}`;

document.querySelector('.prev-btn').disabled = idx === 0;

document.querySelector('.next-btn').disabled = idx === questions.length - 1;

}

**Penjelasan**:

* Menampilkan soal dan pilihan jawaban berdasarkan indeks.
* Jika opsi diklik:
* Disimpan ke localStorage dengan key structureAnswers
* Menampilkan ulang soal yang telah dipilih (dengan highlight)

1. **Navigasi & Status Soal**

function renderNavigator() {

const nav = document.querySelector('.navigator-grid');

nav.innerHTML = '';

questions.forEach((\_, i) => {

const btn = document.createElement('button');

btn.textContent = i + 1;

btn.className = (i === current ? 'current ' : '') +

(answers[i] !== null ? 'answered' : 'unanswered');

btn.onclick = () => {

current = i;

renderQuestion(current);

renderNavigator();

};

nav.appendChild(btn);

});

}

**Penjelasan**:

* Menampilkan tombol nomor soal.
* Diberi kelas:
* .current → soal aktif
* .answered → sudah dijawab
* .unanswered → belum dijawab

1. **Navigasi Soal**

document.querySelector('.prev-btn').onclick = () => {

if (current > 0) {

current--;

renderQuestion(current);

renderNavigator();

}

};

document.querySelector('.next-btn').onclick = () => {

if (current < questions.length - 1) {

current++;

renderQuestion(current);

renderNavigator();

}

};

document.querySelector('.submit-btn').onclick = submitTest;

**Penjelasan**:

* Tombol Previous & Next digunakan untuk pindah antar soal.

1. **Submit Test**

function submitTest() {

if (mode === 'latihan') {

showPembahasan();

return;

}

// Hitung skor

let score = 0;

questions.forEach((q, i) => {

if (answers[i] === q.correct) score++;

});

localStorage.setItem('structureScore', score);

localStorage.setItem('structureTotal', questions.length);

localStorage.removeItem('structureAnswers');

window.location.href = 'hasil-structure.html';

}

**Penjelasan**:

* Menghitung jumlah jawaban benar.
* Menyimpan skor & total ke localStorage.
* Mengarahkan ke halaman hasil structure.

1. **Mode Latihan → Pembahasan**

function showPembahasan() {

document.querySelector('.test-container').innerHTML = `

<div class="pembahasan-container">

<h2 class="pembahasan-title">Pembahasan Structure</h2>

<div class="table-responsive">

<table class="table-pembahasan">

<thead>

<tr>

<th>No</th>

<th>Pertanyaan</th>

<th>Jawaban Anda</th>

<th>Kunci</th>

<th>Pembahasan</th>

</tr>

</thead>

<tbody>

${questions.map((q, i) => {

const userAns = answers[i];

const benar = userAns === q.correct;

return `

<tr>

<td>${i+1}</td>

<td style="text-align:left">${q.question}</td>

<td style="text-align:left">

<span class="${userAns === null ? 'belum' : benar ? 'benar' : 'salah'}">

${userAns !== null ? q.options[userAns] : '<i>Belum dijawab</i>'}

</span>

</td>

<td style="text-align:left"><span class="benar">${q.options[q.correct]}</span></td>

<td style="text-align:left">${q.explanation || '-'}</td>

</tr>

`;

}).join('')}

</tbody>

</table>

</div>

<a href="/dashboard" class="btn-dashboard">Kembali ke Dashboard</a>

</div>

<style>

.pembahasan-container {

max-width: 980px;

margin: 2.5rem auto;

background: #fff;

border-radius: 18px;

padding: 2.5rem 1.5rem 2rem 1.5rem;

box-shadow: 0 4px 24px #e3eafc;

animation: fadeIn 0.7s;

}

.pembahasan-title {

margin-bottom: 2rem;

font-size: 2rem;

color: #2d3a4a;

letter-spacing: 0.5px;

text-align: center;

}

.table-responsive { overflow-x: auto; }

.table-pembahasan {

border-collapse: separate;

border-spacing: 0;

width: 100%;

font-size: 1.07em;

background: #fafdff;

box-shadow: 0 1px 8px #f0f4fa;

}

.table-pembahasan th, .table-pembahasan td {

border: 1px solid #e0e0e0;

padding: 13px 10px;

vertical-align: top;

}

.table-pembahasan th {

background: #e3eafc;

position: sticky;

top: 0;

z-index: 2;

font-weight: 600;

color: #223;

text-align: center;

}

.table-pembahasan tr:nth-child(even) { background: #f6faff; }

.table-pembahasan tr:hover { background: #eaf2fb; transition: background 0.2s; }

.benar {

color: #219150;

font-weight: 600;

background: #e7fbe9;

border-radius: 6px;

padding: 2px 8px;

}

.salah {

color: #d32f2f;

font-weight: 600;

background: #ffeaea;

border-radius: 6px;

padding: 2px 8px;

}

.belum {

color: #888;

font-style: italic;

}

.btn-dashboard {

margin-top: 2.2rem;

display: inline-block;

background: #2471f3;

color: #fff;

padding: 0.8em 2.2em;

border: none;

border-radius: 8px;

font-size: 1.1em;

font-weight: 500;

box-shadow: 0 2px 8px #e3eafc;

transition: background 0.2s, box-shadow 0.2s;

text-decoration: none;

cursor: pointer;

}

.btn-dashboard:hover {

background: #1746a2;

box-shadow: 0 4px 16px #dbeafe;

}

@media (max-width: 700px) {

.pembahasan-container { padding: 1rem 0.2rem; }

.table-pembahasan th, .table-pembahasan td { font-size: 0.97em; padding: 7px 4px; }

.pembahasan-title { font-size: 1.2rem; }

}

@keyframes fadeIn {

from { opacity: 0; transform: translateY(30px);}

to { opacity: 1; transform: none;}

}

</style>

`;

// Reset jawaban setelah pembahasan

localStorage.removeItem('structureAnswers');

}

**Penjelasan**:

* Menampilkan tabel berisi:
* Nomor soal
* Pertanyaan
* Jawaban user
* Kunci jawaban
* Pembahasan
* Disertai penanda warna:
* Hijau → benar
* Merah → salah
* Abu-abu → belum dijawab

1. **Styling Inline Pembahasan**

.benar { color: hijau; background: hijau muda; }

.salah { color: merah; background: merah muda; }

.belum { color: abu-abu; font-style: italic; }

**Penjelasan**:

* Didefinisikan langsung di dalam elemen <style> ketika mode latihan aktif.
* Menambah efek animasi fadeIn untuk transisi masuk pembahasan.

1. **Mode Aktif (Label)**

const header = document.querySelector('.question-header');

if (header) {

const modeLabel = document.createElement('span');

modeLabel.textContent = mode === 'ujian' ? 'Mode Ujian' : 'Mode Latihan';

modeLabel.style.background = mode === 'ujian' ? '#4a55a2' : '#2ecc71';

modeLabel.style.color = '#fff';

modeLabel.style.padding = '0.3rem 1rem';

modeLabel.style.borderRadius = '20px';

modeLabel.style.marginLeft = '1rem';

header.appendChild(modeLabel);

}

**Penjelasan**:

* Label akan muncul di kanan atas header soal.
* Warna:
* Biru → Mode Ujian
* Hijau → Mode Latihan
  + **Code Program CSS**

|  |
| --- |
| body {  background: linear-gradient(135deg, #e3f7ff 60%, #fffde7 100%);  }  .btn-back {  background: var(--secondary-color);  color: var(--primary-color);  border: 2px solid var(--primary-color);  border-radius: 8px;  padding: 0.7rem 1.5rem;  font-weight: 600;  margin-bottom: 1.5rem;  display: inline-flex;  align-items: center;  gap: 0.5rem;  text-decoration: none;  transition: background 0.2s, color 0.2s;  }  .btn-back:hover {  background: var(--primary-color);  color: #fff;  }  .test-container {  max-width: 1100px;  margin: 2rem auto;  padding: 2rem;  background: #fff;  border-radius: 18px;  box-shadow: 0 4px 24px rgba(79,195,247,0.09);  display: flex;  gap: 2rem;  }  .question-navigator {  width: 220px;  background: var(--accent-color);  border: 2px solid var(--primary-color);  border-radius: 12px;  box-shadow: 0 2px 12px rgba(0,0,0,0.06);  padding: 1.5rem 1rem;  margin-right: 1.5rem;  }  .question-navigator .navigator-grid {  display: grid;  grid-template-columns: repeat(5, 1fr);  gap: 0.5rem;  margin-bottom: 1.5rem;  }  .question-navigator button {  border: none;  border-radius: 6px;  padding: 0.5rem 0;  font-weight: 500;  background: #f1f3fa;  color: #4a55a2;  cursor: pointer;  transition: background 0.2s;  }  .question-navigator button.current {  background: var(--primary-color);  color: #fff;  }  .question-navigator button.answered {  background: var(--secondary-color);  color: var(--primary-color);  }  .question-navigator button.unanswered {  background: #fff;  color: var(--primary-color);  }  .submit-btn {  width: 100%;  background: #e74c3c;  color: #fff;  font-weight: 600;  border-radius: 18px;  padding: 0.8rem 2.5rem;  margin-top: 1.5rem;  border: none;  cursor: pointer;  font-size: 1.1rem;  box-shadow: 0 2px 8px #e74c3c22;  }  .question-section {  flex: 1;  background: #fff;  border-radius: 15px;  padding: 2rem;  box-shadow: 0 4px 20px rgba(0,0,0,0.05);  }  .question-header {  display: flex;  justify-content: space-between;  align-items: center;  margin-bottom: 1.5rem;  padding-bottom: 1rem;  border-bottom: 1px solid var(--border-color);  }  .timer {  background: var(--primary-color);  color: white;  padding: 0.7rem 1.5rem;  border-radius: 50px;  font-weight: 600;  box-shadow: 0 4px 15px rgba(0,0,0,0.1);  font-size: 1.1rem;  }  .options {  display: flex;  flex-direction: column;  gap: 1rem;  margin-top: 1.5rem;  }  .option {  padding: 1rem;  border: 2px solid var(--border-color);  border-radius: 8px;  cursor: pointer;  transition: all 0.3s ease;  background: #f8f9fa;  font-size: 1rem;  }  .option.selected {  border-color: var(--primary-color);  background: rgba(74, 85, 162, 0.1);  }  .navigation-buttons {  display: flex;  justify-content: space-between;  margin-top: 2rem;  }  /\* Tombol Previous & Next \*/  .navigation-buttons button {  background: #e74c3c;  color: #fff;  border: none;  border-radius: 20px;  padding: 0.6rem 2.2rem;  margin: 0 0.5rem;  font-size: 1rem;  font-weight: bold;  box-shadow: 0 2px 8px #e74c3c22;  cursor: pointer;  transition: none;  }  .navigation-buttons button:disabled {  background: #f5b7b1;  color: #fff;  cursor: not-allowed;  box-shadow: none;  } |

* + **Penjelasan Program**

1. **Global Style**

body {

background: linear-gradient(135deg, #e3f7ff 60%, #fffde7 100%);

}

**Penjelasan**:

* Memberikan **background gradasi lembut** dari biru muda ke kuning muda.
* Efek visual ini membuat tampilan halaman terasa lebih segar dan profesional.

1. **Tombol Kembali**

.btn-back {

background: var(--secondary-color);

color: var(--primary-color);

border: 2px solid var(--primary-color);

border-radius: 8px;

padding: 0.7rem 1.5rem;

font-weight: 600;

margin-bottom: 1.5rem;

display: inline-flex;

align-items: center;

gap: 0.5rem;

text-decoration: none;

transition: background 0.2s, color 0.2s;

}

.btn-back:hover {

background: var(--primary-color);

color: #fff;

}

**Penjelasan**:

* Tombol untuk kembali ke dashboard.
* Warna dasar mengikuti tema (variabel CSS).
* Hover: berubah warna agar interaktif dan intuitif.

1. **Test Container (Kontainer Utama)**

.test-container {

max-width: 1100px;

margin: 2rem auto;

padding: 2rem;

background: #fff;

border-radius: 18px;

box-shadow: 0 4px 24px rgba(79,195,247,0.09);

display: flex;

gap: 2rem;

}

**Penjelasan**:

* Merupakan **wadah besar** yang membungkus seluruh elemen test.
* **Dua kolom**: sebelah kiri untuk navigasi soal, kanan untuk soal.
* Diberi padding dan bayangan lembut agar tampak elegan.

1. **Navigator Soal (Sidebar Kiri)**

.question-navigator {

width: 220px;

background: var(--accent-color);

border: 2px solid var(--primary-color);

border-radius: 12px;

box-shadow: 0 2px 12px rgba(0,0,0,0.06);

padding: 1.5rem 1rem;

margin-right: 1.5rem;

}

.question-navigator .navigator-grid {

display: grid;

grid-template-columns: repeat(5, 1fr);

gap: 0.5rem;

margin-bottom: 1.5rem;

}

.question-navigator button {

border: none;

border-radius: 6px;

padding: 0.5rem 0;

font-weight: 500;

background: #f1f3fa;

color: #4a55a2;

cursor: pointer;

transition: background 0.2s;

}

.question-navigator button.current {

background: var(--primary-color);

color: #fff;

}

.question-navigator button.answered {

background: var(--secondary-color);

color: var(--primary-color);

}

.question-navigator button.unanswered {

background: #fff;

color: var(--primary-color);

}

**Penjelasan**:

* **Navigasi nomor soal**, berbentuk grid 5 kolom.
* **Warna berdasarkan status**:
* .current: soal aktif (warna utama)
* .answered: sudah dijawab (kuning atau tema sekunder)
* .unanswered: putih (belum dijawab)
* Memudahkan pengguna **melompat ke soal tertentu**.

1. **Tombol Submit**

.submit-btn {

width: 100%;

background: #e74c3c;

color: #fff;

font-weight: 600;

border-radius: 18px;

padding: 0.8rem 2.5rem;

margin-top: 1.5rem;

border: none;

cursor: pointer;

font-size: 1.1rem;

box-shadow: 0 2px 8px #e74c3c22;

}

**Penjelasan**:

* Tombol besar dan mencolok untuk menyelesaikan tes.
* Warna merah menyiratkan tindakan penting atau final.

1. **Bagian Soal**

.question-section {

flex: 1;

background: #fff;

border-radius: 15px;

padding: 2rem;

box-shadow: 0 4px 20px rgba(0,0,0,0.05);

}

.question-header {

display: flex;

justify-content: space-between;

align-items: center;

margin-bottom: 1.5rem;

padding-bottom: 1rem;

border-bottom: 1px solid var(--border-color);

}

.timer {

background: var(--primary-color);

color: white;

padding: 0.7rem 1.5rem;

border-radius: 50px;

font-weight: 600;

box-shadow: 0 4px 15px rgba(0,0,0,0.1);

font-size: 1.1rem;

}

**Penjelasan**:

* **question-section**: area utama menampilkan soal dan jawaban.
* **question-header**: menampilkan nomor soal dan **timer**.
* Timer berwarna biru dan bulat, tampil mencolok di kanan atas soal.

1. **Pilihan Jawaban**

.options {

display: flex;

flex-direction: column;

gap: 1rem;

}

.option {

padding: 1rem;

border: 2px solid var(--border-color);

...

}

.option.selected {

border-color: var(--primary-color);

background: rgba(74, 85, 162, 0.1);

}

**Penjelasan**:

* Disusun vertikal dengan jarak antar opsi.
* Hover & klik akan menambahkan kelas .selected:
* Border menjadi warna primer
* Background sedikit transparan (highlight pilihan)

1. **Navigasi Soal (Next & Previous)**

.navigation-buttons button {

background: #e74c3c;

color: #fff;

border: none;

border-radius: 20px;

padding: 0.6rem 2.2rem;

margin: 0 0.5rem;

font-size: 1rem;

font-weight: bold;

box-shadow: 0 2px 8px #e74c3c22;

cursor: pointer;

transition: none;

}

.navigation-buttons button:disabled {

background: #f5b7b1;

color: #fff;

cursor: not-allowed;

box-shadow: none;

}

**Penjelasan**:

* Dua tombol untuk berpindah soal:
* **Background merah** dengan teks putih.
* Diberi bayangan halus.
* Jika tombol dinonaktifkan (disabled):
* Warna menjadi abu pucat
* Tidak dapat diklik (cursor: not-allowed)

## **Hasil Running Soal Test Structure**

# **Halaman Test Full Soal TOEFL**

## **Source Code dan Penjelasan**

**1.Source Code dan penjelasan pada folder pages/test/hasil.full.html**. Dimana **Fungsi Halaman yaitu:**

Menampilkan **hasil akhir** dari tes TOEFL yang telah dilakukan oleh pengguna, lengkap dengan:

* **Rincian skor** tiap bagian: Listening, Structure, dan Reading.
* **Skor total TOEFL ITP** (dalam rentang 310–677).
* **Status kelulusan** (misalnya: *Lulus*, *Tidak Lulus*, atau kategori kemampuan).
* Fitur **cetak sertifikat** resmi simulasi berbentuk visual (dalam desain siap cetak format A4).
* Tombol **ulang tes** dan **kembali ke dashboard**.

**Code full**

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <title>Hasil TOEFL Lengkap</title>  <link rel="stylesheet" href="../../css/global.css">  <link rel="stylesheet" href="../../css/pages/test/hasil.css">  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">  <script src="score-util.js"></script>  <style>  .score-box {  background: #fafdff;  border-radius: 18px;  box-shadow: 0 4px 24px #e3eafc;  padding: 2.5rem 1.5rem 2rem 1.5rem;  text-align: center;  margin: 2rem auto 0 auto;  max-width: 500px;  }  .score-main {  font-size: 3.5rem;  font-weight: bold;  color: #2471f3;  margin: 1.2rem 0 0.7rem 0;  }  .score-detail {  font-size: 1.2rem;  margin-bottom: 0.7rem;  }  .score-range {  color: #888;  font-size: 1rem;  margin-bottom: 1.2rem;  }  .btn-cetak {  background: #219150;  color: #fff;  border: none;  border-radius: 8px;  padding: 0.7em 2em;  font-size: 1.1em;  font-weight: 500;  cursor: pointer;  transition: background 0.2s;  }  .btn-cetak:hover {  background: #146c43;  }  .status-badge {  padding: 4px 12px;  border-radius: 20px;  font-size: 14px;  font-weight: 500;  display: inline-block;  margin: 10px 0;  }  .status-lulus {  background: #e3fcef;  color: #0d9448;  }  .status-tidak {  background: #ffe9e9;  color: #d63031;  }  /\* Certificate Styles \*/  .certificate {  display: none;  width: 595px; /\* A4 width in portrait \*/  height: 842px; /\* A4 height in portrait \*/  padding: 48px;  border: 3px solid #2471f3;  position: relative;  margin: 20px auto;  background: #fff;  box-sizing: border-box;  font-family: 'Arial', sans-serif;  }    .certificate::before {  content: '';  position: absolute;  top: 8px;  left: 8px;  right: 8px;  bottom: 8px;  border: 1px solid #2471f3;  pointer-events: none;  }    .certificate-header {  text-align: center;  margin-bottom: 40px;  border-bottom: 2px solid #2471f3;  padding-bottom: 20px;  }    .certificate-title {  font-size: 42px;  color: #2471f3;  font-weight: bold;  margin: 20px 0;  text-transform: uppercase;  letter-spacing: 2px;  }    .certificate-subtitle {  font-size: 24px;  color: #333;  margin: 10px 0;  }    .certificate-content {  text-align: center;  margin: 40px 0;  }    .certificate-score {  font-size: 52px;  color: #2471f3;  font-weight: bold;  margin: 20px 0;  border: 3px solid #2471f3;  display: inline-block;  padding: 10px 40px;  border-radius: 10px;  }    .certificate-details {  margin: 30px 0;  font-size: 20px;  line-height: 1.8;  color: #333;  }  .certificate-status {  margin: 20px 0;  font-size: 18px;  }    .certificate-footer {  position: absolute;  bottom: 48px;  left: 48px;  right: 48px;  text-align: center;  border-top: 2px solid #2471f3;  padding-top: 20px;  }    .certificate-validation {  font-size: 16px;  color: #666;  margin-top: 15px;  font-style: italic;  }  /\* Print Styles \*/  @media print {  body \* {  visibility: hidden;  }  .certificate, .certificate \* {  visibility: visible;  }  .certificate {  display: block;  position: absolute;  left: 0;  top: 0;  width: 100%;  height: 100%;  margin: 0;  padding: 48px;  }  .btn-back, .btn-primary, .btn-cetak {  display: none;  }  @page {  size: A4 portrait;  margin: 0;  }  }  </style>  </head>  <body>  <a href="/dashboard" class="btn btn-back" style="margin:1.5rem 2rem 0 2rem;">  <i class="fas fa-arrow-left"></i> Kembali ke Dashboard  </a>  <div class="result-container">  <h1>Hasil Simulasi TOEFL Lengkap</h1>  <div id="score-summary"></div>  <button onclick="window.location.href='soal-full.html'" class="btn btn-primary" style="margin-top:2rem;">  Ulangi Tes Lengkap  </button>  </div>  <!-- Certificate Template -->  <div class="certificate">  <div class="certificate-header">  <h1 class="certificate-title">Sertifikat TOEFL ITP</h1>  <div class="certificate-subtitle">TOEL.ID - Platform Simulasi TOEFL Terpercaya</div>  </div>  <div class="certificate-content">  <div id="certificate-date" style="margin-bottom: 30px; font-size: 20px;"></div>  <div class="certificate-score" id="certificate-total-score"></div>  <div class="certificate-details" id="certificate-details"></div>  <div class="certificate-status" id="certificate-status"></div>  </div>  <div class="certificate-footer">  <p style="font-size: 18px; color: #2471f3; font-weight: bold;">TOEL.ID</p>  <p style="font-size: 16px; margin: 5px 0;">Platform Pembelajaran dan Simulasi TOEFL Terbaik di Indonesia</p>  <div class="certificate-validation">  Sertifikat ini diterbitkan sebagai hasil simulasi TOEFL di platform TOEL.ID.<br>  Skor ini mencerminkan kemampuan bahasa Inggris berdasarkan standar penilaian TOEFL ITP.  </div>  </div>  </div>  <script>  document.addEventListener('DOMContentLoaded', function() {  // Ambil skor benar dan total dari localStorage (pastikan sudah diset saat submit)  const benarL = Number(localStorage.getItem('fullListeningScore') || 0);  const totalL = Number(localStorage.getItem('fullListeningTotal') || 50);  const benarS = Number(localStorage.getItem('fullStructureScore') || 0);  const totalS = Number(localStorage.getItem('fullStructureTotal') || 40);  const benarR = Number(localStorage.getItem('fullReadingScore') || 0);  const totalR = Number(localStorage.getItem('fullReadingTotal') || 50);  // Rumus TOEFL asli  const skorL = hitungSkorTOEFL('listening', benarL, totalL);  const skorS = hitungSkorTOEFL('structure', benarS, totalS);  const skorR = hitungSkorTOEFL('reading', benarR, totalR);  const skorITP = hitungSkorTOEFLFull(skorL, skorS, skorR);  // Get status  const status = getStatusKeterangan(skorITP);  const statusClass = status.includes('Lulus') ? 'status-lulus' : 'status-tidak';  // Format tanggal  const today = new Date();  const formattedDate = today.toLocaleDateString('id-ID', {  day: 'numeric',  month: 'long',  year: 'numeric'  });  // Simpan riwayat  simpanRiwayatTOEFL({  type: 'Full',  date: today.toISOString(),  benarL, totalL, skorL,  benarS, totalS, skorS,  benarR, totalR, skorR,  skorITP  });  // Update score summary  document.getElementById('score-summary').innerHTML = `  <div class="score-box">  <h2>Hasil Simulasi TOEFL Lengkap</h2>  <div class="score-main">${skorITP}</div>  <div class="score-detail">  <b>Listening:</b> ${skorL} (${benarL}/${totalL})<br>  <b>Structure:</b> ${skorS} (${benarS}/${totalS})<br>  <b>Reading:</b> ${skorR} (${benarR}/${totalR})<br>  <b>Total Skor ITP:</b> ${skorITP} <span class="score-range">(310–677)</span>  </div>  <div class="status-badge ${statusClass}">  ${status}  </div>  <button class="btn-cetak" onclick="window.print()">Cetak Sertifikat</button>  </div>  `;  // Update certificate content  document.getElementById('certificate-date').innerText = `Tanggal Tes: ${formattedDate}`;  document.getElementById('certificate-total-score').innerText = `Skor Total: ${skorITP}`;  document.getElementById('certificate-details').innerHTML = `  Perincian Skor:<br>  Listening Comprehension: ${skorL}<br>  Structure and Written Expression: ${skorS}<br>  Reading Comprehension: ${skorR}  `;  document.getElementById('certificate-status').innerHTML = `  Status: <span class="${statusClass}" style="padding: 5px 15px;">${status}</span>  `;  });  </script>  </body>  </html> |

Penjelasan per bagian code:

**1.Struktur HTML**

* <!DOCTYPE html> : Deklarasi tipe dokumen HTML5.
* <html lang="id"> : Elemen root HTML, bahasa ditetapkan ke **Bahasa Indonesia**.
* <head>: Berisi metadata dan resource:
  + <meta charset="UTF-8">: Set karakter UTF-8.
  + <title>: Judul tab browser.
  + <link rel="stylesheet" ...>: Import CSS global & halaman hasil.
  + <script src="score-util.js">: Import fungsi perhitungan skor.
  + <style>: CSS internal (tampilan skor & sertifikat).

**1.1. Isi Halaman <Body>**

<a href="/dashboard" class="btn btn-back">...</a>

Penjelasan:

Code tersebut yaitu berfungsi untuk Untuk kembali ke halaman dashboard pengguna.

<div class="result-container">

<h1>Hasil Simulasi TOEFL</h1>

<div id="score-summary"></div>

<button>Ulangi Tes</button>

</div>

Penjelasan:

Isi dari elemen ini diisi lewat JavaScript saat halaman dimuat (DOMContentLoaded). Ditampilkan:

* Skor per bagian + total.
* Badge status lulus/tidak.
* Tombol "Cetak Sertifikat".

<div class="certificate">...</div>

Penjelasan:

Berfungsi untuk Template **sertifikat** TOEFL:

* Judul: *Sertifikat TOEFL ITP.*
* Skor total & per bagian
* Status lulus/tidak
* Catatan validasi (footer) **Disembunyikan**, hanya muncul saat dicetak (@media print).

**Penjelasan Code CSS Internal**

Kode CSS di dalam file HTM ini berfungsi untuk **mengatur tampilan visual halaman hasil tes TOEFL dan sertifikat cetaknya**.

**1.2.** **Styling Score Box**

**Tampilan kotak hasil skor:**

* Background putih, padding, border-radius.
* Efek bayangan dan font besar untuk skor utama.

**1.3. .styling Status Badge**

.status-badge.status-lulus {

background: #e3fcef;

color: #0d9448;

}

.status-badge.status-tidak {

background: #ffe9e9;

color: #d63031;

Penjelasannya:

Label "Lulus" dan "Tidak Lulus" dengan warna berbeda.

**1.4. Tombol Cetak**

.btn-cetak {

background: #219150;

color: #fff;

padding: 0.7em 2em;

}

Penjelasannya:

Tombol untuk mencetak sertifikat. Ada efek hover.

**1.5. Sertifikat**

(.certificate)

Penjelasannya:

* **Ukuran A4 (595×842px)**, batas border, padding, dan layout rapi.
* Berisi: Header, skor, detail skor, status, dan footer.
* **Tidak tampil** di halaman biasa (display: none).

**1.6.** **Cetak / Print (@media print)**

@media print {

body \* { visibility: hidden; }

.certificate, .certificate \* {

visibility: visible;

display: block;

}

.btn-cetak { display: none; }

}

Fungsinya:

Saat klik **"Cetak Sertifikat"**, hanya elemen .certificate yang akan dicetak — tombol & elemen lain disembunyikan.

**Penjelasan Code Javascript Internal.**

Fungsi code Javascript ini yaitu untuk menampilkan hasil tes TOEFL lengkap dari data yang disimpan di localStorage, menghitung skor, status kelulusan, dan menampilkan sertifikat.

**1.7. Mengambil dari localStronge**

const benarL = Number(localStorage.getItem('fullListeningScore') || 0);

const totalL = Number(localStorage.getItem('fullListeningTotal') || 50);

...

Penjelasan:

Fungsinya yaitu untuk Mengambil skor benar dan total untuk masing-masing section (Listening, Structure, Reading).

**1.8. Hitung skor**

const skorL = hitungSkorTOEFL('listening', benarL, totalL);

Penjelasan:

Memanggil fungsi dari score-util.js untuk konversi skor mentah ke skor standar TOEFL ITP.

**1.9.Hitung Total Skor TOEFL ITP**

const skorITP = hitungSkorTOEFLFull(skorL, skorS, skorR);

Penjelasan:

Untuk Total skor: rata-rata dari ketiga section × 10.

**2. Tentukan Status Kelulusan**

const status = getStatusKeterangan(skorITP);

**Penjelasan:**

Fungsi yang memberi keterangan: "Lulus" atau "Belum Lulus" berdasarkan skor.

**2.1 Tampilkan Hasil di Halaman**

document.getElementById('score-summary').innerHTML = `...`;

Penjelasan:

Untuk Memasukkan skor dan status ke elemen HTML (div.score-box).

**2.2. Update Isi Sertifikat**

document.getElementById('certificate-total-score').innerText = ...

Fungsinya:

Untuk Memasukkan data ke template sertifikat (tanggal, skor, detail).

**2.3. Simpan ke Riwayat**

simpanRiwayatTOEFL({ ... });

Fungsinya:

Menyimpan detail hasil tes ke penyimpanan lokal untuk ditampilkan di dashboard riwayat.

**2.Source Code dan penjelasan pada folder pages/test/hasil-listening.html**. Dimana **Fungsi Halaman yaitu:**

untuk menampilkan hasil skor Listening TOEFL pengguna dan mencetak sertifikat skor tersebut

**Full Code**

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <title>Hasil Listening</title>  <link rel="stylesheet" href="../../css/global.css">  <link rel="stylesheet" href="../../css/pages/test/hasil.css">  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">  <script src="score-util.js"></script>  <style>  .score-box {  background: #fafdff;  border-radius: 18px;  box-shadow: 0 4px 24px #e3eafc;  padding: 2.5rem 1.5rem 2rem 1.5rem;  text-align: center;  margin: 2rem auto 0 auto;  max-width: 400px;  }  .score-main {  font-size: 3.5rem;  font-weight: bold;  color: #2471f3;  margin: 1.2rem 0 0.7rem 0;  }  .score-detail {  font-size: 1.2rem;  margin-bottom: 0.7rem;  }  .score-range {  color: #888;  font-size: 1rem;  margin-bottom: 1.2rem;  }  .btn-cetak {  background: #219150;  color: #fff;  border: none;  border-radius: 8px;  padding: 0.7em 2em;  font-size: 1.1em;  font-weight: 500;  cursor: pointer;  transition: background 0.2s;  }  .btn-cetak:hover {  background: #146c43;  }  /\* Certificate Styles \*/  .certificate {  display: none;  width: 595px; /\* A4 width in portrait \*/  height: 842px; /\* A4 height in portrait \*/  padding: 48px;  border: 3px solid #2471f3;  position: relative;  margin: 20px auto;  background: #fff;  box-sizing: border-box;  font-family: 'Arial', sans-serif;  }    .certificate::before {  content: '';  position: absolute;  top: 8px;  left: 8px;  right: 8px;  bottom: 8px;  border: 1px solid #2471f3;  pointer-events: none;  }    .certificate-header {  text-align: center;  margin-bottom: 40px;  border-bottom: 2px solid #2471f3;  padding-bottom: 20px;  }    .certificate-title {  font-size: 42px;  color: #2471f3;  font-weight: bold;  margin: 20px 0;  text-transform: uppercase;  letter-spacing: 2px;  }    .certificate-subtitle {  font-size: 24px;  color: #333;  margin: 10px 0;  }    .certificate-content {  text-align: center;  margin: 40px 0;  }    .certificate-score {  font-size: 52px;  color: #2471f3;  font-weight: bold;  margin: 20px 0;  border: 3px solid #2471f3;  display: inline-block;  padding: 10px 40px;  border-radius: 10px;  }    .certificate-details {  margin: 30px 0;  font-size: 20px;  line-height: 1.8;  color: #333;  }    .certificate-footer {  position: absolute;  bottom: 48px;  left: 48px;  right: 48px;  text-align: center;  border-top: 2px solid #2471f3;  padding-top: 20px;  }    .certificate-validation {  font-size: 16px;  color: #666;  margin-top: 15px;  font-style: italic;  }  /\* Print Styles \*/  @media print {  body \* {  visibility: hidden;  }  .certificate, .certificate \* {  visibility: visible;  }  .certificate {  display: block;  position: absolute;  left: 0;  top: 0;  width: 100%;  height: 100%;  margin: 0;  padding: 48px;  }  .btn-back, .btn-primary, .btn-cetak {  display: none;  }  @page {  size: A4 portrait;  margin: 0;  }  }  </style>  </head>  <body>  <a href="/dashboard" class="btn btn-back" style="margin:1.5rem 2rem 0 2rem;">  <i class="fas fa-arrow-left"></i> Kembali ke Dashboard  </a>  <div class="result-container">  <h1>Hasil Listening</h1>  <div id="score-summary">  <!-- Nilai akan diisi oleh JS -->  </div>  <button onclick="window.location.href='soal-listening.html'" class="btn btn-primary" style="margin-top:2rem;">  Ulangi Listening  </button>  </div>  <!-- Certificate Template -->  <div class="certificate">  <div class="certificate-header">  <h1 class="certificate-title">Sertifikat TOEFL Listening</h1>  <div class="certificate-subtitle">TOEL.ID - Platform Simulasi TOEFL Terpercaya</div>  </div>  <div class="certificate-content">  <div id="certificate-date" style="margin-bottom: 30px; font-size: 20px;"></div>  <div class="certificate-score" id="certificate-total-score"></div>  <div class="certificate-details" id="certificate-details"></div>  </div>  <div class="certificate-footer">  <p style="font-size: 18px; color: #2471f3; font-weight: bold;">TOEL.ID</p>  <p style="font-size: 16px; margin: 5px 0;">Platform Pembelajaran dan Simulasi TOEFL Terbaik di Indonesia</p>  <div class="certificate-validation">  Sertifikat ini diterbitkan sebagai hasil simulasi TOEFL di platform TOEL.ID.<br>  Skor ini mencerminkan kemampuan bahasa Inggris berdasarkan standar penilaian TOEFL ITP.  </div>  </div>  </div>  <script>  document.addEventListener('DOMContentLoaded', function() {  const benar = Number(localStorage.getItem('listeningScore') || 0);  const total = Number(localStorage.getItem('listeningTotal') || 50);  const skor = hitungSkorTOEFL('listening', benar, total);  // Format tanggal  const today = new Date();  const formattedDate = today.toLocaleDateString('id-ID', {  day: 'numeric',  month: 'long',  year: 'numeric'  });  // Simpan riwayat  simpanRiwayatTOEFL({  type: 'Listening',  date: new Date().toISOString(),  benar, total, skor  });  document.getElementById('score-summary').innerHTML = `  <div class="score-box">  <h2>Skor Listening Anda</h2>  <div class="score-main">${skor}</div>  <div class="score-detail">${benar} benar dari ${total} soal</div>  <div class="score-range">Rentang skor: 31–68</div>  <button class="btn-cetak" onclick="window.print()">Cetak Sertifikat</button>  </div>  `;  // Update certificate content  document.getElementById('certificate-date').innerText = `Tanggal Tes: ${formattedDate}`;  document.getElementById('certificate-total-score').innerText = `Skor: ${skor}`;  document.getElementById('certificate-details').innerHTML = `  Perincian:<br>  Jumlah Soal: ${total}<br>  Jawaban Benar: ${benar}<br>  Rentang Skor: 31-68  `;  });  </script>  </body>  </html> |

Penjelasan per bagian code:

**1.Struktur HTML**

* <!DOCTYPE html> : Deklarasi tipe dokumen HTML5.
* <html lang="id"> : Elemen root HTML, bahasa ditetapkan ke **Bahasa Indonesia**.
* <head>: Berisi metadata dan resource:
  + <meta charset="UTF-8">: Set karakter UTF-8.
  + <title>: Judul tab browser.
  + <link rel="stylesheet" ...>: Import CSS global & halaman hasil.
  + <script src="score-util.js">: Import fungsi perhitungan skor.
  + <style>: CSS internal (tampilan skor & sertifikat).

**1.1. Isi Halaman <Body>**

<a href="/dashboard" class="btn btn-back">...</a>

Penjelasan:

Code tersebut yaitu berfungsi untuk Untuk kembali ke halaman dashboard pengguna.

<div class="result-container">

<h1>Hasil Simulasi TOEFL</h1>

<div id="score-summary"></div>

<button>Ulangi Tes</button>

</div>

Penjelasan:

Isi dari elemen ini diisi lewat JavaScript saat halaman dimuat (DOMContentLoaded). Ditampilkan:

* Skor per bagian + total.
* Badge status lulus/tidak.
* Tombol "Cetak Sertifikat".

<div class="certificate">...</div>

Penjelasan:

Berfungsi untuk Template **sertifikat** TOEFL:

* Judul: *Sertifikat TOEFL ITP.*
* Skor total & per bagian
* Status lulus/tidak
* Catatan validasi (footer) **Disembunyikan**, hanya muncul saat dicetak (@media print).

**Penjelasan code css Internal**

**1.2.Skor**

|  |  |
| --- | --- |
| **Class** | **Penjelasan** |
| **.score-box** | kotak putih dengan bayangan, menampilkan skor. |
| **.score-main** | skor besar (angka). |
| **.score-detail, .score-range** | detail jawaban dan rentang skor. |

**1.3.Tombol**

|  |  |
| --- | --- |
| **Class** | **Penjelasan** |
| **.btn-cetak** | tombol hijau untuk mencetak. |
| **Efek hover** | warna hijau lebih gelap. |

**1.4,Sertifikat**

|  |  |
| --- | --- |
| **Class** | **Penjelasan** |
| **.certificate** | kotak putih ukuran A4 dengan border biru. |
| **.certificate-title, .subtitle, .score, .details** | mengatur font, warna, jarak. |

**1.5. Cetak Print**

@media print {

body \* { visibility: hidden; }

.certificate, .certificate \* { visibility: visible; }

.certificate { display: block; position: absolute; width: 100%; height: 100%; }

.btn-back, .btn-primary, .btn-cetak { display: none; }

}

Penjelasan:

Saat cetak (Ctrl + P), hanya sertifikat yang terlihat dan dicetak.

**Penjelasan Code Javascript Internal**

**1.6. Fungsi Utama**

document.addEventListener('DOMContentLoaded', function() {

Penjelasan:

Untuk menunggu halaman selesai dimuat.

**1.7. Mengambil dari localStronge**

const benarL = Number(localStorage.getItem('fullListeningScore') || 0);

const totalL = Number(localStorage.getItem('fullListeningTotal') || 50);

...

Penjelasan:

Fungsinya yaitu untuk Mengambil skor benar dari section listening.

**1.8.Hitung Score**

const skor = hitungSkorTOEFL('listening', benar, total);

Penjelasan:

Menggunakan fungsi dari score-util.js untuk hitung skor sesuai standar TOEFL.

**1.9.Format Tanggal**

const today = new Date();

const formattedDate = today.toLocaleDateString('id-ID', { ... });

Penejelasan:

Untuk **mengubah tanggal tes menjadi format yang mudah dibaca dalam bahasa Indonesia**.

**2.Simpan Riwayat**

simpanRiwayatTOEFL({ type: 'Listening', date, benar, total, skor });

Penjelasan:

Simpan data ke dalam riwayat TOEFL pengguna.

**2.1. Tampilkan skor di halaman:**

document.getElementById('score-summary').innerHTML = `...`

Penjelasan:

Menampilkan skor, detail benar-salah, dan tombol cetak.

**2.2. Tampilkan sertifikat:**

document.getElementById('certificate-total-score').innerText = `Skor: ${skor}`;

Penjelasan:

Menyisipkan skor, tanggal, dan rincian ke dalam layout sertifikat.

**3.Source Code dan penjelasan pada folder pages/test/hasil-reading.html**. Dimana **Fungsi Halaman yaitu:**

untuk menampilkan hasil skor Listening TOEFL pengguna dan mencetak sertifikat skor tersebut

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <title>Hasil Reading</title>  <link rel="stylesheet" href="../../css/global.css">  <link rel="stylesheet" href="../../css/pages/test/hasil.css">  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">  <script src="score-util.js"></script>  <style>  .score-box {  background: #fafdff;  border-radius: 18px;  box-shadow: 0 4px 24px #e3eafc;  padding: 2.5rem 1.5rem 2rem 1.5rem;  text-align: center;  margin: 2rem auto 0 auto;  max-width: 400px;  }  .score-main {  font-size: 3.5rem;  font-weight: bold;  color: #2471f3;  margin: 1.2rem 0 0.7rem 0;  }  .score-detail {  font-size: 1.2rem;  margin-bottom: 0.7rem;  }  .score-range {  color: #888;  font-size: 1rem;  margin-bottom: 1.2rem;  }  .btn-cetak {  background: #219150;  color: #fff;  border: none;  border-radius: 8px;  padding: 0.7em 2em;  font-size: 1.1em;  font-weight: 500;  cursor: pointer;  transition: background 0.2s;  }  .btn-cetak:hover {  background: #146c43;  }  /\* Certificate Styles \*/  .certificate {  display: none;  width: 595px; /\* A4 width in portrait \*/  height: 842px; /\* A4 height in portrait \*/  padding: 48px;  border: 3px solid #2471f3;  position: relative;  margin: 20px auto;  background: #fff;  box-sizing: border-box;  font-family: 'Arial', sans-serif;  }    .certificate::before {  content: '';  position: absolute;  top: 8px;  left: 8px;  right: 8px;  bottom: 8px;  border: 1px solid #2471f3;  pointer-events: none;  }    .certificate-header {  text-align: center;  margin-bottom: 40px;  border-bottom: 2px solid #2471f3;  padding-bottom: 20px;  }    .certificate-title {  font-size: 42px;  color: #2471f3;  font-weight: bold;  margin: 20px 0;  text-transform: uppercase;  letter-spacing: 2px;  }    .certificate-subtitle {  font-size: 24px;  color: #333;  margin: 10px 0;  }    .certificate-content {  text-align: center;  margin: 40px 0;  }    .certificate-score {  font-size: 52px;  color: #2471f3;  font-weight: bold;  margin: 20px 0;  border: 3px solid #2471f3;  display: inline-block;  padding: 10px 40px;  border-radius: 10px;  }    .certificate-details {  margin: 30px 0;  font-size: 20px;  line-height: 1.8;  color: #333;  }    .certificate-footer {  position: absolute;  bottom: 48px;  left: 48px;  right: 48px;  text-align: center;  border-top: 2px solid #2471f3;  padding-top: 20px;  }    .certificate-validation {  font-size: 16px;  color: #666;  margin-top: 15px;  font-style: italic;  }  /\* Print Styles \*/  @media print {  body \* {  visibility: hidden;  }  .certificate, .certificate \* {  visibility: visible;  }  .certificate {  display: block;  position: absolute;  left: 0;  top: 0;  width: 100%;  height: 100%;  margin: 0;  padding: 48px;  }  .btn-back, .btn-primary, .btn-cetak {  display: none;  }  @page {  size: A4 portrait;  margin: 0;  }  }  </style>  </head>  <body>  <a href="/dashboard" class="btn btn-back" style="margin:1.5rem 2rem 0 2rem;">  <i class="fas fa-arrow-left"></i> Kembali ke Dashboard  </a>  <div class="result-container">  <h1>Hasil Reading</h1>  <div id="score-summary"></div>  <button onclick="window.location.href='soal-reading.html'" class="btn btn-primary" style="margin-top:2rem;">  Ulangi Reading  </button>  </div>  <!-- Certificate Template -->  <div class="certificate">  <div class="certificate-header">  <h1 class="certificate-title">Sertifikat TOEFL Reading</h1>  <div class="certificate-subtitle">TOEL.ID - Platform Simulasi TOEFL Terpercaya</div>  </div>  <div class="certificate-content">  <div id="certificate-date" style="margin-bottom: 30px; font-size: 20px;"></div>  <div class="certificate-score" id="certificate-total-score"></div>  <div class="certificate-details" id="certificate-details"></div>  </div>  <div class="certificate-footer">  <p style="font-size: 18px; color: #2471f3; font-weight: bold;">TOEL.ID</p>  <p style="font-size: 16px; margin: 5px 0;">Platform Pembelajaran dan Simulasi TOEFL Terbaik di Indonesia</p>  <div class="certificate-validation">  Sertifikat ini diterbitkan sebagai hasil simulasi TOEFL di platform TOEL.ID.<br>  Skor ini mencerminkan kemampuan bahasa Inggris berdasarkan standar penilaian TOEFL ITP.  </div>  </div>  </div>  <script>  document.addEventListener('DOMContentLoaded', function() {  const benar = Number(localStorage.getItem('readingScore') || 0);  const total = Number(localStorage.getItem('readingTotal') || 50);  const skor = hitungSkorTOEFL('reading', benar, total);  // Format tanggal  const today = new Date();  const formattedDate = today.toLocaleDateString('id-ID', {  day: 'numeric',  month: 'long',  year: 'numeric'  });  // Simpan riwayat  simpanRiwayatTOEFL({  type: 'Reading',  date: new Date().toISOString(),  benar, total, skor  });  document.getElementById('score-summary').innerHTML = `  <div class="score-box">  <h2>Skor Reading Anda</h2>  <div class="score-main">${skor}</div>  <div class="score-detail">${benar} benar dari ${total} soal</div>  <div class="score-range">Rentang skor: 31–68</div>  <button class="btn-cetak" onclick="window.print()">Cetak Sertifikat</button>  </div>  `;  // Update certificate content  document.getElementById('certificate-date').innerText = `Tanggal Tes: ${formattedDate}`;  document.getElementById('certificate-total-score').innerText = `Skor: ${skor}`;  document.getElementById('certificate-details').innerHTML = `  Perincian:<br>  Jumlah Soal: ${total}<br>  Jawaban Benar: ${benar}<br>  Rentang Skor: 31-68  `;  });  </script>  </body>  </html> |

Kode ini berfungsi menampilkan hasil skor Reading TOEFL pengguna dan memberikan opsi untuk mencetak sertifikat skor tersebut, sama seperti pada bagian Listening, hanya berbeda di jenis tes (reading).

**4**.**Source Code dan penjelasan pada folder pages/test/hasil-reading.html**. Dimana **Fungsi Halaman yaitu:**

untuk menampilkan hasil skor Structure TOEFL pengguna dan mencetak sertifikat skor tersebut.

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <title>Hasil Structure</title>  <link rel="stylesheet" href="../../css/global.css">  <link rel="stylesheet" href="../../css/pages/test/hasil.css">  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0/css/all.min.css">  <script src="score-util.js"></script>  <style>  .score-box {  background: #fafdff;  border-radius: 18px;  box-shadow: 0 4px 24px #e3eafc;  padding: 2.5rem 1.5rem 2rem 1.5rem;  text-align: center;  margin: 2rem auto 0 auto;  max-width: 400px;  }  .score-main {  font-size: 3.5rem;  font-weight: bold;  color: #2471f3;  margin: 1.2rem 0 0.7rem 0;  }  .score-detail {  font-size: 1.2rem;  margin-bottom: 0.7rem;  }  .score-range {  color: #888;  font-size: 1rem;  margin-bottom: 1.2rem;  }  .btn-cetak {  background: #219150;  color: #fff;  border: none;  border-radius: 8px;  padding: 0.7em 2em;  font-size: 1.1em;  font-weight: 500;  cursor: pointer;  transition: background 0.2s;  }  .btn-cetak:hover {  background: #146c43;  }  /\* Certificate Styles \*/  .certificate {  display: none;  width: 595px; /\* A4 width in portrait \*/  height: 842px; /\* A4 height in portrait \*/  padding: 48px;  border: 3px solid #2471f3;  position: relative;  margin: 20px auto;  background: #fff;  box-sizing: border-box;  font-family: 'Arial', sans-serif;  }    .certificate::before {  content: '';  position: absolute;  top: 8px;  left: 8px;  right: 8px;  bottom: 8px;  border: 1px solid #2471f3;  pointer-events: none;  }    .certificate-header {  text-align: center;  margin-bottom: 40px;  border-bottom: 2px solid #2471f3;  padding-bottom: 20px;  }    .certificate-title {  font-size: 42px;  color: #2471f3;  font-weight: bold;  margin: 20px 0;  text-transform: uppercase;  letter-spacing: 2px;  }    .certificate-subtitle {  font-size: 24px;  color: #333;  margin: 10px 0;  }    .certificate-content {  text-align: center;  margin: 40px 0;  }    .certificate-score {  font-size: 52px;  color: #2471f3;  font-weight: bold;  margin: 20px 0;  border: 3px solid #2471f3;  display: inline-block;  padding: 10px 40px;  border-radius: 10px;  }    .certificate-details {  margin: 30px 0;  font-size: 20px;  line-height: 1.8;  color: #333;  }    .certificate-footer {  position: absolute;  bottom: 48px;  left: 48px;  right: 48px;  text-align: center;  border-top: 2px solid #2471f3;  padding-top: 20px;  }    .certificate-validation {  font-size: 16px;  color: #666;  margin-top: 15px;  font-style: italic;  }  /\* Print Styles \*/  @media print {  body \* {  visibility: hidden;  }  .certificate, .certificate \* {  visibility: visible;  }  .certificate {  display: block;  position: absolute;  left: 0;  top: 0;  width: 100%;  height: 100%;  margin: 0;  padding: 48px;  }  .btn-back, .btn-primary, .btn-cetak {  display: none;  }  @page {  size: A4 portrait;  margin: 0;  }  }  </style>  </head>  <body>  <a href="/dashboard" class="btn btn-back" style="margin:1.5rem 2rem 0 2rem;">  <i class="fas fa-arrow-left"></i> Kembali ke Dashboard  </a>  <div class="result-container">  <h1>Hasil Structure</h1>  <div id="score-summary"></div>  <button onclick="window.location.href='soal-structure.html'" class="btn btn-primary" style="margin-top:2rem;">  Ulangi Structure  </button>  </div>  <!-- Certificate Template -->  <div class="certificate">  <div class="certificate-header">  <h1 class="certificate-title">Sertifikat TOEFL Structure</h1>  <div class="certificate-subtitle">TOEL.ID - Platform Simulasi TOEFL Terpercaya</div>  </div>  <div class="certificate-content">  <div id="certificate-date" style="margin-bottom: 30px; font-size: 20px;"></div>  <div class="certificate-score" id="certificate-total-score"></div>  <div class="certificate-details" id="certificate-details"></div>  </div>  <div class="certificate-footer">  <p style="font-size: 18px; color: #2471f3; font-weight: bold;">TOEL.ID</p>  <p style="font-size: 16px; margin: 5px 0;">Platform Pembelajaran dan Simulasi TOEFL Terbaik di Indonesia</p>  <div class="certificate-validation">  Sertifikat ini diterbitkan sebagai hasil simulasi TOEFL di platform TOEL.ID.<br>  Skor ini mencerminkan kemampuan bahasa Inggris berdasarkan standar penilaian TOEFL ITP.  </div>  </div>  </div>  <script>  document.addEventListener('DOMContentLoaded', function() {  const benar = Number(localStorage.getItem('structureScore') || 0);  const total = Number(localStorage.getItem('structureTotal') || 40);  const skor = hitungSkorTOEFL('structure', benar, total);  // Format tanggal  const today = new Date();  const formattedDate = today.toLocaleDateString('id-ID', {  day: 'numeric',  month: 'long',  year: 'numeric'  });  // Simpan riwayat  simpanRiwayatTOEFL({  type: 'Structure',  date: new Date().toISOString(),  benar, total, skor  });  document.getElementById('score-summary').innerHTML = `  <div class="score-box">  <h2>Skor Structure Anda</h2>  <div class="score-main">${skor}</div>  <div class="score-detail">${benar} benar dari ${total} soal</div>  <div class="score-range">Rentang skor: 31–68</div>  <button class="btn-cetak" onclick="window.print()">Cetak Sertifikat</button>  </div>  `;  // Update certificate content  document.getElementById('certificate-date').innerText = `Tanggal Tes: ${formattedDate}`;  document.getElementById('certificate-total-score').innerText = `Skor: ${skor}`;  document.getElementById('certificate-details').innerHTML = `  Perincian:<br>  Jumlah Soal: ${total}<br>  Jawaban Benar: ${benar}<br>  Rentang Skor: 31-68  `;  });  </script>  </body>  </html> |

Penjelasan:

Kode ini berfungsi **menampilkan hasil skor Reading TOEFL pengguna** dan memberikan **opsi untuk mencetak sertifikat skor tersebut**, sama seperti pada bagian Listening, hanya berbeda di jenis tes (structure).

**5**.**Source Code dan penjelasan pada folder pages/test/hasil.html**. Dimana **Fungsi Halaman yaitu:**

Halaman ini berfungsi untuk **menampilkan hasil keseluruhan tes TOEFL** (Listening, Structure, Reading), **setelah pengguna menyelesaikan ketiga bagian tes**.

Full Code:

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <title>Hasil Test TOEFL</title>  <link rel="stylesheet" href="../../css/global.css">  <link rel="stylesheet" href="../../css/pages/test/hasil.css">  </head>  <body>  <div class="result-container">  <h1>Hasil Test TOEFL</h1>  <div id="score-summary">  <!-- Nilai dan statistik akan diisi oleh JS -->  </div>  <button onclick="window.location.href='index.html'">Kembali ke Menu Test</button>  </div>  <script src="js/hasil.js"></script>  </body>  </html> |

Penjelasan per-bagian

**1.Struktur HTML**

* <!DOCTYPE html> : Deklarasi tipe dokumen HTML5.
* <html lang="id"> : Elemen root HTML, bahasa ditetapkan ke **Bahasa Indonesia**.
* <head>: Berisi metadata dan resource:
  + <meta charset="UTF-8">: Set karakter UTF-8.
  + <title>: Judul tab browser.
  + <link rel="stylesheet" ...>: Import CSS global & halaman hasil.
  + <script src="score-util.js">: Import fungsi perhitungan skor.
  + <style>: CSS internal (tampilan skor & sertifikat).
  1. **Bagian isi <Body>**

<body>

<div class="result-container">

<h1>Hasil Test TOEFL</h1>

<div id="score-summary">

<!-- Nilai dan statistik akan diisi oleh JS -->

</div>

<button onclick="window.location.href='index.html'">Kembali ke Menu Test</button>

</div>

Penjelasan:

* <div class="result-container">: Area utama yang membungkus hasil.
* <div id="score-summary">: Tempat kosong yang akan diisi dengan skor oleh JavaScript.
* Tombol: Mengarahkan user kembali ke halaman test (index.html).

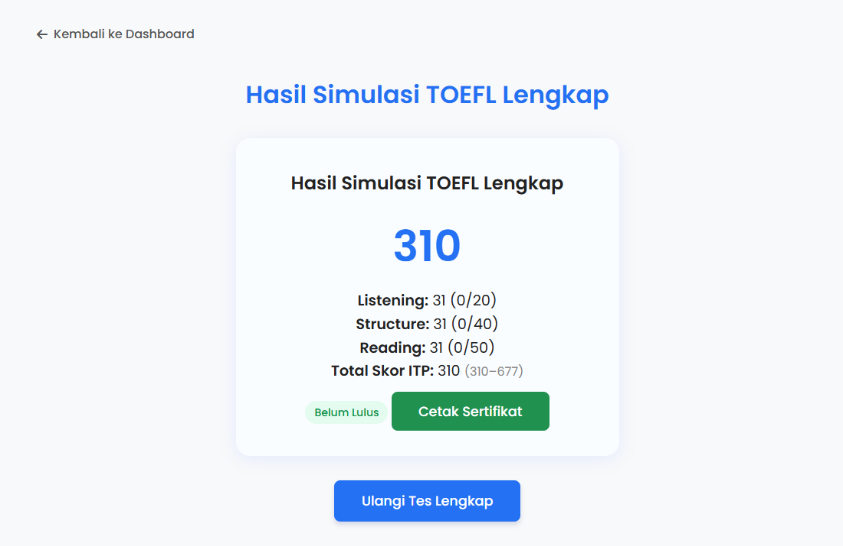
**Penjelasan Code Javascript**

<script src="js/hasil.js"></script>

Fungsinya:

Menghubungkan file JavaScript bernama hasil.js.

## **Hasil Running Full Soal Test**



# **Data Semua Soal Test**

## **Source Code dan Penjelasan**

**Penjelasan JSON (JavaScript Object Notation)**

Fungsi **JSON** ini adalah sebagai **wadah penyimpanan data soal Listening, Reading, Structure TOEFL** dalam format yang terstruktur, mudah dibaca, dan mudah diolah oleh aplikasi web.

**Penjelasan file JSON pada path data/audio/file.json**

**1.listening.json**

|  |
| --- |
| {  "title": "...",  "timeLimit": 2400,  "instructions": "...",  "questions": [  {  "id": 1,  "type": "conversation",  "audioDescription": "Short conversation audio 1.",  "audioUrl": "longman-listening-diagnostic-pre-test-1-1.mp3",  "question": "What does the man mean?",  "options": [  "The coffee is much better this morning.",  "He’s feeling bitter this morning.",  "The coffee isn’t very good.",  "He cannot taste the butter."  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'The coffee isn’t very good.' karena dari percakapan, pria tersebut mengeluhkan rasa kopi yang tidak enak."  },  {  "id": 2,  "type": "conversation",  "audioDescription": "Short conversation audio 2.",  "audioUrl": "longman-listening-diagnostic-pre-test-2-1.mp3",  "question": "What does the man mean?",  "options": [  "The two classes meet in an hour and a half.",  "The class meets three hours per week.",  "Each half of the class is an hour long.",  "Two times a week the class meets for an hour"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'The class meets three hours per week.' karena pria tersebut menjelaskan total pertemuan kelas dalam seminggu."  },  {  "id": 3,  "type": "conversation",  "audioDescription": "Short conversation audio 3.",  "audioUrl": "longman-listening-diagnostic-pre-test-3-1.mp3",  "question": "What does the woman mean?",  "options": [  "A few minutes ago, the flight departed.",  "The flight will start in a while.",  "They are frightened about the departure.",  "The plane is going to take off soon."  ],  "correct": 3,  "explanation": "Jawaban yang benar adalah 'The plane is going to take off soon.' karena wanita tersebut mengatakan pesawat akan segera lepas landas."  },  {  "id": 4,  "type": "conversation",  "audioDescription": "Short conversation audio 4.",  "audioUrl": "longman-listening-diagnostic-pre-test-4-1.mp3",  "question": "What does the man mean?",  "options": [  "He hasn’t yet begun his project.",  "He’s supposed to do his science project next week.",  "He needs to start working on changing the due date.",  "He’s been working steadily on his science project."  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'He hasn’t yet begun his project.' karena pria tersebut mengatakan bahwa dia belum memulai proyeknya."  },  {  "id": 5,  "type": "conversation",  "audioDescription": "Short conversation audio 5.",  "audioUrl": "longman-listening-diagnostic-pre-test-5-1.mp3",  "question": "Where does this converastion probably take place?",  "options": [  "At the post office.",  "In a florist shop.",  "In a restaurant.",  "In a hospital delivery room."  ],  "correct": 3,  "explanation": "Jawaban yang benar adalah 'In a hospital delivery room.' karena percakapan mengarah pada situasi persalinan di rumah sakit."  },  {  "id": 6,  "type": "conversation",  "audioDescription": "Short conversation audio 6.",  "audioUrl": "longman-listening-diagnostic-pre-test-6-1.mp3",  "question": "What does the man mean?",  "options": [  "The professor drowned the cells in a lab.",  "The topic was presented in a boring way.",  "The professor divided the lecture into parts.",  "The biologist tried to sell the results of the experiment."  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'The topic was presented in a boring way.' karena pria tersebut mengeluhkan cara penyampaian materi yang membosankan."  },  {  "id": 7,  "type": "conversation",  "audioDescription": "Short conversation audio 7.",  "audioUrl": "longman-listening-diagnostic-pre-test-7-1.mp3",  "question": "What does the woman mean?",  "options": [  "She needs to get a driver’s license.",  "It is impossible to cash a check without two pieces of identification.",  "The man should check to see if he needs credit.",  "A credit card can be used to get a driver’s license."  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'It is impossible to cash a check without two pieces of identification.' karena wanita menjelaskan syarat pencairan cek."  },  {  "id": 8,  "type": "conversation",  "audioDescription": "Short conversation audio 8.",  "audioUrl": "longman-listening-diagnostic-pre-test-8-1.mp3",  "question": "What does the man mean?",  "options": [  "Housing within his budget is hard to locate.",  "It’s hard to find his house in New York.",  "He can’t afford to move his house to New York.",  "Housing in New York is unavailable."  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'Housing within his budget is hard to locate.' karena pria tersebut kesulitan mencari tempat tinggal yang sesuai anggaran."  },  {  "id": 9,  "type": "conversation",  "audioDescription": "Short conversation audio 9.",  "audioUrl": "longman-listening-diagnostic-pre-test-9-1.mp3",  "question": "What does the man mean?",  "options": [  "The boss was working on the reports.",  "He would have to finish the reports before the end of next month.",  "He was directed to stay late and finish some work.",  "He could finish the reports at home."  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'He was directed to stay late and finish some work.' karena pria tersebut diminta lembur untuk menyelesaikan laporan."  },  {  "id": 10,  "type": "conversation",  "audioDescription": "Short conversation audio 10.",  "audioUrl": "longman-listening-diagnostic-pre-test-10-1.mp3",  "question": "What does the woman mean?",  "options": [  "The boisterous students made the teacher mad.",  "The teacher angered the students with the exam results.",  "The students were angry that the teacher was around.",  "The angered students complained to the teacher."  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'The boisterous students made the teacher mad.' karena murid-murid yang ribut membuat guru marah."  },  {  "id": 11,  "type": "conversation",  "audioDescription": "Short conversation audio 11.",  "audioUrl": "longman-listening-diagnostic-pre-test-11-1.mp3",  "question": "What does the man mean?",  "options": [  "The prices are reasonable.",  "The store is too far out of town.",  "He would like the woman to repeat what she said.",  "He agrees with the woman."  ],  "correct": 3,  "explanation": "Jawaban yang benar adalah 'He agrees with the woman.' karena pria tersebut setuju dengan pendapat wanita."  },  {  "id": 12,  "type": "conversation",  "audioDescription": "Short conversation audio 12.",  "audioUrl": "longman-listening-diagnostic-pre-test-12-1.mp3",  "question": "What does the man mean?",  "options": [  "It has rarely rained this much.",  "It hardly rained this year.",  "It is barely raining this year.",  "It seldom rains so little."  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'It hardly rained this year.' karena pria tersebut mengatakan tahun ini hampir tidak hujan."  },  {  "id": 13,  "type": "conversation",  "audioDescription": "Short conversation audio 13.",  "audioUrl": "longman-listening-diagnostic-pre-test-13-1.mp3",  "question": "What does professor Martin say about the student?",  "options": [  "He needs to do a better job writing questions.",  "His writing must certainly be improved.",  "Without the questions, he cannot write the answers.",  "He needs to understand the written questions better."  ],  "correct": 3,  "explanation": "Jawaban yang benar adalah 'He needs to understand the written questions better.' karena profesor menekankan pentingnya memahami soal tertulis."  },  {  "id": 14,  "type": "conversation",  "audioDescription": "Short conversation audio 14.",  "audioUrl": "longman-listening-diagnostic-pre-test-14-1.mp3",  "question": "What does the man mean?",  "options": [  "The agent was standing in line with his passport.",  "The line to get new passports is very long.",  "The woman must wait her turn to get her passport checked.",  "He can check her passport instead of the agent."  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'The woman must wait her turn to get her passport checked.' karena pria tersebut menyarankan wanita untuk menunggu giliran."  },  {  "id": 15,  "type": "conversation",  "audioDescription": "Short conversation audio 15.",  "audioUrl": "longman-listening-diagnostic-pre-test-15-1.mp3",  "question": "What does the woman say about Paul?",  "options": [  "He couldn’t finish closing the library book.",  "He hadn’t finished the library assignment, but he was close.",  "He was working on the assignment when the library closed.",  "His homework was incomplete because the library wasn’t open."  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'He was working on the assignment when the library closed.' karena wanita mengatakan Paul masih mengerjakan tugas saat perpustakaan tutup."  },  {  "id": 16,  "type": "conversation",  "audioDescription": "Short conversation audio 16.",  "audioUrl": "longman-listening-diagnostic-pre-test-16-1.mp3",  "question": "What does the man say about Harry?",  "options": [  "He sold no magazines.",  "He sold only one magazines.",  "He has never sold as many magazines as he sold today.",  "He sold five magazines at one house."  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'He has never sold as many magazines as he sold today.' karena pria tersebut menyatakan hari ini penjualan terbanyak."  },  {  "id": 17,  "type": "conversation",  "audioDescription": "Short conversation audio 17.",  "audioUrl": "longman-listening-diagnostic-pre-test-17-1.mp3",  "question": "What does the woman say about the repairs to Frank’s house?",  "options": [  "Frank told the contractor to do the work in spite of the cost.",  "Frank told the contractor that the price was too high.",  "Frank cannot afford the work on his house.",  "Frank repaired his own house."  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'Frank told the contractor to do the work in spite of the cost.' karena Frank tetap meminta kontraktor mengerjakan meski biayanya mahal."  },  {  "id": 18,  "type": "conversation",  "audioDescription": "Short conversation audio 18.",  "audioUrl": "longman-listening-diagnostic-pre-test-18-1.mp3",  "question": "What does the man say he did last night?",  "options": [  "He studied last night because he had to.",  "He tired to study last night, but the material was too hard.",  "He couldn’t study last night because he was very tired.",  "He studied last night because he was bored."  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'He couldn’t study last night because he was very tired.' karena pria tersebut terlalu lelah untuk belajar."  },  {  "id": 19,  "type": "conversation",  "audioDescription": "Short conversation audio 19.",  "audioUrl": "longman-listening-diagnostic-pre-test-19-1.mp3",  "question": "What does the woman say about Gloria?",  "options": [  "She goes to a movie every year.",  "She hasn’t gone to a movie yet this year, but last year she did.",  "She doesn’t go to a movie unless she has the time.",  "She hasn’t seen a movie for a long time."  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'She hasn’t gone to a movie yet this year, but last year she did.' karena wanita menyebut tahun ini belum nonton film, tapi tahun lalu sudah."  },  {  "id": 20,  "type": "conversation",  "audioDescription": "Short conversation audio 20.",  "audioUrl": "longman-listening-diagnostic-pre-test-20-1.mp3",  "question": "What does the woman say about Harvey?",  "options": [  "He turned around to answer the teacher’s questions.",  "He is an intelligent student.",  "He must have been embarrassed.",  "He looked in the red book for the answer to the questions."  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'He must have been embarrassed.' karena wanita mengatakan Harvey pasti malu."  }  ]  } |

**Penjelasan:**

Ini adalah bagian struktur data untuk **simulasi soal TOEFL bagian Listening – Conversation**, lengkap dengan informasi **durasi tes**, **petunjuk**, **daftar soal**, serta **opsi jawaban, kunci jawaban, dan penjelasannya**.

**1.Struktur Utama JSON**

{

"title": "...",

"timeLimit": 2400,

"instructions": "...",

"questions": [ ... ]

}

Penjelasan dan Fungsinya:

|  |  |  |
| --- | --- | --- |
| **Key JSON** | **Tipe Data** | **Penjelasan** |
| Title | String | Judul tes, misalnya *Listening Diagnostic Pre-Test* |
| timeLimit | Number | Batas waktu pengerjaan (dalam detik). Contoh 2400 berarti 40 menit. |
| Instructions | String | Petunjuk pengerjaan soal |
| Questions | Array | Daftar soal (berisi objek-objek soal) |

**2.Struktur Soal**

**Sampel Soal dan penjelasannya**

{

"id": 1,

"type": "conversation",

"audioDescription": "Short conversation audio 1.",

"audioUrl": "longman-listening-diagnostic-pre-test-1-1.mp3",

"question": "What does the man mean?",

"options": [

"The coffee is much better this morning.",

"He’s feeling bitter this morning.",

"The coffee isn’t very good.",

"He cannot taste the butter."

],

"correct": 2,

"explanation": "Jawaban yang benar adalah 'The coffee isn’t very good.' karena dari percakapan, pria tersebut mengeluhkan rasa kopi yang tidak enak."

}

Penjelasan dan fungsinya:

|  |  |  |
| --- | --- | --- |
| **Key** | **Type** | **Keterangan** |
| Id | Number | ID soal, dari 1–20 |
| type | String | Jenis soal, di sini semuanya "conversation" |
| audioDescription | String | Deskripsi audio untuk soal |
| audioUrl | String | Nama file audio yang akan diputar |
| Question | String | Pertanyaan yang diajukan |
| options | Array | Pilihan jawaban (opsi A–D) |
| correct | Number | Indeks jawaban benar (dimulai dari 0, jadi 2 artinya opsi ke-3 benar) |
| explanation | String | Penjelasan logis kenapa jawaban itu benar |

**2.Reading.json**

|  |
| --- |
| {  "title": "Reading Comprehension",  "timeLimit": 3300,  "instructions": "Read the passages and answer the questions that follow. You have 55 minutes to complete this section.",  "questions": [  {  "id": 1,  "passage": "Climate change represents one of the most pressing challenges of our time. Rising global temperatures, caused primarily by increased greenhouse gas emissions from human activities, are leading to widespread environmental changes. These include melting ice caps, rising sea levels, and more frequent extreme weather events. The scientific consensus is clear: immediate action is needed to reduce carbon emissions and transition to renewable energy sources to mitigate the worst effects of climate change.",  "question": "According to the passage, what is the primary cause of rising global temperatures?",  "options": [  "Natural climate cycles",  "Solar radiation changes",  "Increased greenhouse gas emissions from human activities",  "Volcanic activity"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'Increased greenhouse gas emissions from human activities' karena pada kalimat kedua disebutkan bahwa penyebab utama kenaikan suhu global adalah emisi gas rumah kaca dari aktivitas manusia."  },  {  "id": 2,  "passage": "The invention of the printing press in the 15th century by Johannes Gutenberg revolutionized the spread of knowledge. Before this innovation, books were hand-copied by scribes, making them expensive and rare. The printing press allowed for mass production of books, dramatically reducing costs and increasing accessibility to information. This technological advancement played a crucial role in the Renaissance, the Reformation, and the Scientific Revolution, as ideas could now be disseminated quickly and widely across Europe.",  "question": "What was the main advantage of the printing press over hand-copying?",  "options": [  "Better quality illustrations",  "More durable materials",  "Mass production reducing costs and increasing accessibility",  "Faster individual copying speed"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'Mass production reducing costs and increasing accessibility' karena teks menjelaskan bahwa mesin cetak memungkinkan produksi massal buku sehingga biaya turun dan akses meningkat."  },  {  "id": 3,  "passage": "Artificial intelligence (AI) is increasingly being integrated into various aspects of modern life, from smartphones and search engines to autonomous vehicles and medical diagnosis systems. Machine learning, a subset of AI, enables computers to learn and improve from experience without being explicitly programmed for every task. While AI offers tremendous potential benefits, including increased efficiency and new capabilities, it also raises important questions about job displacement, privacy, and the need for ethical guidelines in AI development.",  "question": "What is machine learning according to the passage?",  "options": [  "A type of computer hardware",  "A subset of AI that enables computers to learn from experience",  "A programming language for AI",  "A method of data storage"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'A subset of AI that enables computers to learn from experience' karena dijelaskan bahwa machine learning memungkinkan komputer belajar dari pengalaman tanpa diprogram secara eksplisit."  },  {  "id": 4,  "passage": "The Mediterranean diet, rich in fruits, vegetables, whole grains, legumes, nuts, and olive oil, has been associated with numerous health benefits. Studies have shown that people following this dietary pattern have lower rates of heart disease, certain cancers, and cognitive decline. The diet emphasizes fresh, minimally processed foods and includes moderate consumption of fish and poultry, while limiting red meat and processed foods. The social aspect of sharing meals is also considered an important component of the Mediterranean lifestyle.",  "question": "Which of the following is NOT mentioned as a component of the Mediterranean diet?",  "options": [  "Olive oil and nuts",  "Fresh fruits and vegetables",  "High consumption of red meat",  "Whole grains and legumes"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'High consumption of red meat' karena diet Mediterania justru membatasi konsumsi daging merah, bukan menekankan konsumsi tinggi."  },  {  "id": 5,  "passage": "Space exploration has entered a new era with the involvement of private companies alongside government agencies. Companies like SpaceX and Blue Origin have developed reusable rocket technology, significantly reducing the cost of launching satellites and cargo into space. This commercialization of space has opened up new possibilities, including space tourism, asteroid mining, and the potential for establishing permanent human settlements on other planets. However, it also raises concerns about space debris, planetary protection, and equitable access to space resources.",  "question": "What has been the main contribution of private companies to space exploration?",  "options": [  "Discovery of new planets",  "Development of reusable rocket technology",  "Creation of new satellites",  "Training of astronauts"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Development of reusable rocket technology' karena kontribusi utama perusahaan swasta adalah pengembangan roket yang dapat digunakan kembali."  },  {  "id": 6,  "passage": "Biodiversity, the variety of life on Earth, is essential for ecosystem stability and human survival. It encompasses the diversity of species, genetic variation within species, and the variety of ecosystems. Unfortunately, human activities such as deforestation, pollution, and climate change are causing biodiversity loss at an unprecedented rate. Scientists estimate that species are currently becoming extinct at a rate 100 to 1,000 times faster than the natural background rate. Conservation efforts, including protected areas, sustainable practices, and restoration projects, are crucial for preserving biodiversity for future generations.",  "question": "According to the passage, how much faster is the current extinction rate compared to the natural rate?",  "options": [  "10 to 50 times faster",  "50 to 100 times faster",  "100 to 1,000 times faster",  "1,000 to 10,000 times faster"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah '100 to 1,000 times faster' karena disebutkan laju kepunahan saat ini 100 hingga 1.000 kali lebih cepat dari laju alami."  },  {  "id": 7,  "passage": "The rise of remote work, accelerated by the COVID-19 pandemic, has fundamentally changed how many people approach their careers. While remote work offers benefits such as increased flexibility, reduced commuting time, and better work-life balance for some, it also presents challenges. These include potential isolation, difficulty in separating work and personal life, and reduced opportunities for spontaneous collaboration. Companies are now exploring hybrid models that combine remote and in-office work to maximize the benefits while addressing the drawbacks.",  "question": "What is mentioned as a challenge of remote work?",  "options": [  "Increased commuting costs",  "Difficulty in separating work and personal life",  "Higher office expenses",  "Reduced salary potential"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Difficulty in separating work and personal life' karena tantangan yang disebutkan adalah sulitnya memisahkan kehidupan kerja dan pribadi."  },  {  "id": 8,  "passage": "Renewable energy sources such as solar, wind, and hydroelectric power are becoming increasingly cost-competitive with fossil fuels. Technological advances have improved the efficiency of solar panels and wind turbines while reducing their production costs. Additionally, battery storage technology has advanced significantly, addressing the intermittency issues associated with renewable energy. Governments worldwide are implementing policies to support the transition to renewable energy, including subsidies, tax incentives, and carbon pricing mechanisms.",  "question": "What technological advance has helped address intermittency issues with renewable energy?",  "options": [  "More efficient solar panels",  "Improved wind turbines",  "Advanced battery storage technology",  "Better transmission lines"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'Advanced battery storage technology' karena kemajuan teknologi baterai membantu mengatasi masalah intermitensi energi terbarukan."  },  {  "id": 9,  "passage": "Urban planning plays a crucial role in creating sustainable and livable cities. Well-designed urban spaces can reduce traffic congestion, improve air quality, and enhance quality of life for residents. Key principles of sustainable urban planning include mixed-use development, efficient public transportation systems, green spaces, and compact city design that reduces sprawl. Smart city technologies, such as intelligent traffic management systems and energy-efficient buildings, are also being integrated into modern urban planning to create more efficient and environmentally friendly cities.",  "question": "Which of the following is NOT mentioned as a principle of sustainable urban planning?",  "options": [  "Mixed-use development",  "Efficient public transportation",  "Large parking facilities",  "Green spaces and compact design"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'Large parking facilities' karena prinsip ini tidak disebutkan dalam perencanaan kota berkelanjutan di teks."  },  {  "id": 10,  "passage": "The human brain's capacity for neuroplasticity—its ability to reorganize and form new neural connections throughout life—has revolutionized our understanding of learning and recovery. This discovery has shown that the brain can adapt to injury, learn new skills, and even compensate for lost functions well into old age. Neuroplasticity is enhanced through activities that challenge the brain, such as learning new languages, playing musical instruments, or engaging in complex problem-solving tasks. This understanding has led to new therapeutic approaches for stroke recovery, learning disabilities, and age-related cognitive decline.",  "question": "What does neuroplasticity refer to?",  "options": [  "The brain's ability to increase in size",  "The brain's ability to reorganize and form new neural connections",  "The brain's capacity to store memories",  "The brain's resistance to injury"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'The brain's ability to reorganize and form new neural connections' karena neuroplastisitas adalah kemampuan otak membentuk koneksi baru sepanjang hidup."  },  {  "id": 11,  "passage": "The concept of emotional intelligence, popularized by psychologist Daniel Goleman, refers to the ability to recognize, understand, and manage our own emotions while effectively responding to others' emotions. Research has shown that emotional intelligence can be more predictive of success in life and work than traditional measures of intelligence (IQ). The five key components of emotional intelligence are self-awareness, self-regulation, motivation, empathy, and social skills. These skills can be developed through practice and training, making emotional intelligence a learnable competency rather than a fixed trait.",  "question": "How many key components of emotional intelligence are mentioned in the passage?",  "options": [  "Three",  "Four",  "Five",  "Six"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'Five' karena disebutkan ada lima komponen utama kecerdasan emosional: self-awareness, self-regulation, motivation, empathy, dan social skills."  },  {  "id": 12,  "passage": "Microplastics, tiny plastic particles less than 5 millimeters in size, have become a pervasive environmental pollutant. They originate from the breakdown of larger plastic items, synthetic textiles, car tires, and cosmetic products. These particles have been found in oceans, soil, air, and even in human blood and organs. The long-term health effects of microplastic exposure are still being studied, but early research suggests potential concerns for immune system function and cellular health. Reducing plastic waste and developing biodegradable alternatives are essential steps in addressing this growing environmental challenge.",  "question": "What size defines microplastics according to the passage?",  "options": [  "Less than 1 millimeter",  "Less than 3 millimeters",  "Less than 5 millimeters",  "Less than 10 millimeters"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'Less than 5 millimeters' karena mikroplastik didefinisikan sebagai partikel plastik berukuran kurang dari 5 mm."  },  {  "id": 13,  "passage": "The gig economy, characterized by short-term contracts and freelance work rather than permanent employment, has grown significantly in recent years. Platforms like Uber, Airbnb, and TaskRabbit have enabled millions of people to earn income through flexible work arrangements. While the gig economy offers freedom and flexibility, it also lacks many traditional employment benefits such as health insurance, paid leave, and retirement plans. This has sparked debates about worker classification, labor rights, and the need for new social safety nets adapted to modern work patterns.",  "question": "What characterizes the gig economy?",  "options": [  "Long-term permanent employment",  "Short-term contracts and freelance work",  "Government-sponsored jobs",  "Corporate executive positions"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Short-term contracts and freelance work' karena ciri utama gig economy adalah kontrak jangka pendek dan pekerjaan lepas."  },  {  "id": 14,  "passage": "Gene therapy, a promising medical technique that involves introducing genetic material into a patient's cells to treat or prevent disease, has shown remarkable progress in recent years. This approach can potentially correct defective genes responsible for genetic disorders, enhance the body's ability to fight cancer, or provide cells with new functions. While early gene therapy trials faced significant challenges and safety concerns, recent advances in delivery methods and gene editing technologies like CRISPR have improved both the safety and efficacy of these treatments. Several gene therapies have now received regulatory approval for treating rare genetic diseases.",  "question": "What is the main purpose of gene therapy?",  "options": [  "To diagnose genetic diseases",  "To introduce genetic material to treat or prevent disease",  "To study genetic mutations",  "To clone human cells"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'To introduce genetic material to treat or prevent disease' karena terapi gen bertujuan memasukkan materi genetik untuk mengobati atau mencegah penyakit."  },  {  "id": 15,  "passage": "The sharing economy has transformed traditional business models across various industries. By leveraging digital platforms to connect people who have resources with those who need them, companies like Airbnb and Uber have created new markets and opportunities. This model promotes resource efficiency by maximizing the utilization of underused assets such as spare rooms or idle vehicles. However, the sharing economy also raises questions about regulation, taxation, and fair competition with traditional businesses. Additionally, concerns about worker protections and the quality of services provided through these platforms continue to be debated.",  "question": "How does the sharing economy promote resource efficiency?",  "options": [  "By creating new products",  "By maximizing the utilization of underused assets",  "By reducing production costs",  "By eliminating competition"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'By maximizing the utilization of underused assets' karena sharing economy memaksimalkan penggunaan aset yang kurang dimanfaatkan."  },  {  "id": 16,  "passage": "Quantum computing represents a revolutionary approach to information processing that could solve certain problems exponentially faster than classical computers. Unlike traditional computers that use bits (0s and 1s), quantum computers use quantum bits or 'qubits' that can exist in multiple states simultaneously through a quantum mechanical property called superposition. This allows quantum computers to process vast amounts of information in parallel. While still in early development stages, quantum computing shows promise for applications in cryptography, drug discovery, financial modeling, and artificial intelligence.",  "question": "What allows quantum computers to process information differently than classical computers?",  "options": [  "Faster processors",  "Quantum bits that can exist in multiple states simultaneously",  "Larger memory capacity",  "Better programming languages"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Quantum bits that can exist in multiple states simultaneously' karena komputer kuantum menggunakan qubit yang dapat berada di beberapa keadaan sekaligus."  },  {  "id": 17,  "passage": "Vertical farming, the practice of growing crops in vertically stacked layers using controlled-environment agriculture, is emerging as a potential solution to food security challenges. This method uses significantly less water and land than traditional farming while eliminating the need for pesticides. LED lighting systems provide the necessary light for plant growth, and nutrients are delivered through hydroponic or aeroponic systems. Although vertical farming currently faces challenges related to high energy costs and limited crop variety, technological advances are gradually making it more economically viable and environmentally sustainable.",  "question": "What is a current challenge facing vertical farming?",  "options": [  "Lack of suitable crops",  "High energy costs",  "Insufficient lighting technology",  "Poor crop quality"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'High energy costs' karena tantangan utama vertical farming saat ini adalah biaya energi yang tinggi."  },  {  "id": 18,  "passage": "The circular economy is an economic model that aims to eliminate waste and promote the continual use of resources. Unlike the traditional linear 'take-make-dispose' model, the circular economy is based on three principles: designing out waste and pollution, keeping products and materials in use, and regenerating natural systems. This approach involves strategies such as recycling, reusing, refurbishing, and sharing to create a closed-loop system. Companies adopting circular economy principles can reduce costs, create new revenue streams, and minimize their environmental impact while contributing to sustainable development goals.",  "question": "How many principles form the basis of the circular economy according to the passage?",  "options": [  "Two",  "Three",  "Four",  "Five"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Three' karena disebutkan ada tiga prinsip dasar circular economy."  },  {  "id": 19,  "passage": "Digital detox, the practice of temporarily abstaining from digital devices and online activities, has gained popularity as people seek to reduce screen time and improve mental well-being. Excessive use of smartphones, social media, and other digital technologies has been linked to increased anxiety, depression, and sleep disorders. Digital detox programs encourage participants to engage in offline activities such as reading, exercising, socializing face-to-face, and spending time in nature. Research suggests that even short periods of digital disconnection can lead to improved focus, better sleep quality, and enhanced real-world relationships.",  "question": "What does digital detox involve?",  "options": [  "Upgrading to newer digital devices",  "Temporarily abstaining from digital devices and online activities",  "Learning new digital skills",  "Increasing social media usage"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Temporarily abstaining from digital devices and online activities' karena digital detox berarti menjauh sementara dari perangkat digital."  },  {  "id": 20,  "passage": "Sustainable fashion addresses the environmental and social impact of clothing production and consumption. The fashion industry is one of the world's most polluting industries, contributing to water pollution, textile waste, and greenhouse gas emissions. Sustainable fashion promotes practices such as using eco-friendly materials, ensuring fair labor conditions, designing durable clothing, and encouraging consumers to buy less but choose quality items that last longer. Brands are also exploring innovative approaches like clothing rental services, take-back programs, and recycling initiatives to reduce the industry's environmental footprint.",  "question": "What does sustainable fashion promote?",  "options": [  "Faster production cycles",  "Lower prices for all clothing",  "Using eco-friendly materials and ensuring fair labor conditions",  "Increasing consumption of trendy items"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'Using eco-friendly materials and ensuring fair labor conditions' karena sustainable fashion menekankan bahan ramah lingkungan dan kondisi kerja yang adil."  },  {  "id": 21,  "passage": "Telemedicine, the delivery of healthcare services through digital communication technologies, has experienced unprecedented growth, particularly during the COVID-19 pandemic. This approach allows patients to consult with healthcare providers remotely through video calls, phone calls, or messaging platforms. Telemedicine offers numerous benefits, including increased access to healthcare for rural and underserved populations, reduced travel time and costs, and decreased risk of infection transmission. However, challenges remain, including the need for reliable internet connectivity, concerns about data privacy and security, and limitations in conducting physical examinations remotely.",  "question": "What is identified as a challenge for telemedicine?",  "options": [  "Too many healthcare providers",  "Excessive patient demand",  "Need for reliable internet connectivity",  "Lower quality medical equipment"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'Need for reliable internet connectivity' karena tantangan telemedicine adalah kebutuhan koneksi internet yang andal."  },  {  "id": 22,  "passage": "Mindfulness meditation, rooted in Buddhist traditions but now widely practiced in secular contexts, involves paying attention to the present moment without judgment. Scientific research has demonstrated numerous benefits of regular mindfulness practice, including reduced stress and anxiety, improved emotional regulation, enhanced focus and concentration, and better sleep quality. Mindfulness-based interventions are now commonly used in healthcare settings to treat conditions such as depression, chronic pain, and post-traumatic stress disorder. The practice can be as simple as focusing on breathing for a few minutes each day.",  "question": "What are mindfulness-based interventions commonly used to treat?",  "options": [  "Only physical injuries",  "Depression, chronic pain, and post-traumatic stress disorder",  "Only mental health conditions",  "Infectious diseases"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Depression, chronic pain, and post-traumatic stress disorder' karena intervensi mindfulness digunakan untuk kondisi-kondisi tersebut."  },  {  "id": 23,  "passage": "The Internet of Things (IoT) refers to the network of physical devices embedded with sensors, software, and connectivity that enables them to collect and exchange data. IoT applications range from smart home devices like thermostats and security cameras to industrial sensors that monitor equipment performance. This technology promises to improve efficiency, enhance safety, and enable new services across various sectors including healthcare, transportation, and agriculture. However, the proliferation of IoT devices also raises significant concerns about cybersecurity, data privacy, and the potential for system vulnerabilities that could be exploited by malicious actors.",  "question": "What does IoT stand for according to the passage?",  "options": [  "Internet of Technology",  "Intelligence of Things",  "Internet of Things",  "Integration of Technology"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'Internet of Things' karena IoT adalah singkatan dari Internet of Things."  },  {  "id": 24,  "passage": "Social entrepreneurship combines entrepreneurial principles with a mission to address social, cultural, or environmental challenges. Social entrepreneurs identify problems in society and develop innovative, sustainable solutions that create positive social impact while maintaining financial viability. Unlike traditional for-profit businesses that primarily focus on maximizing shareholder value, social enterprises prioritize their social mission alongside financial sustainability. Examples include organizations that provide clean water solutions in developing countries, create employment opportunities for marginalized communities, or develop affordable healthcare technologies.",  "question": "How do social enterprises differ from traditional for-profit businesses?",  "options": [  "They only focus on making profits",  "They prioritize their social mission alongside financial sustainability",  "They don't need to be financially viable",  "They only operate in developed countries"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'They prioritize their social mission alongside financial sustainability' karena social enterprise mengutamakan misi sosial dan keberlanjutan finansial."  },  {  "id": 25,  "passage": "Personalized medicine, also known as precision medicine, tailors medical treatment to individual characteristics such as genetic makeup, lifestyle, and environment. This approach recognizes that individuals may respond differently to the same treatment based on their unique biological and social factors. Advances in genomics, big data analytics, and artificial intelligence are making personalized medicine increasingly feasible. Applications include selecting the most effective medications based on genetic profiles, customizing cancer treatments, and developing targeted therapies for rare diseases. While promising, personalized medicine also raises questions about healthcare equity and access to these advanced treatments.",  "question": "What factors does personalized medicine consider when tailoring treatment?",  "options": [  "Only genetic makeup",  "Only lifestyle factors",  "Genetic makeup, lifestyle, and environment",  "Only environmental factors"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'Genetic makeup, lifestyle, and environment' karena personalized medicine mempertimbangkan ketiga faktor tersebut."  },  {  "id": 26,  "passage": "Food waste is a significant global problem, with approximately one-third of all food produced for human consumption being lost or wasted annually. This waste occurs at various stages of the food supply chain, from agricultural production and processing to retail and household consumption. Food waste not only represents a massive economic loss but also contributes to environmental problems including greenhouse gas emissions from decomposing organic matter in landfills. Solutions to reduce food waste include improving supply chain efficiency, educating consumers about proper food storage, implementing 'ugly fruit' campaigns, and developing technologies to extend food shelf life.",  "question": "According to the passage, what fraction of food produced for human consumption is wasted annually?",  "options": [  "One-quarter",  "One-third",  "One-half",  "Two-thirds"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'One-third' karena disebutkan sepertiga makanan untuk konsumsi manusia terbuang setiap tahun."  },  {  "id": 27,  "passage": "Autonomous vehicles, or self-driving cars, use a combination of sensors, cameras, radar, and artificial intelligence to navigate without human intervention. These vehicles have the potential to significantly reduce traffic accidents caused by human error, which accounts for approximately 94% of serious traffic crashes. Additionally, autonomous vehicles could improve mobility for elderly and disabled individuals, reduce traffic congestion through optimized routing, and decrease emissions through more efficient driving patterns. However, challenges remain, including technological limitations in complex driving scenarios, regulatory frameworks, and public acceptance of the technology.",  "question": "What percentage of serious traffic crashes is attributed to human error according to the passage?",  "options": [  "84%",  "90%",  "94%",  "98%"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah '94%' karena 94% kecelakaan lalu lintas serius disebabkan oleh kesalahan manusia."  },  {  "id": 28,  "passage": "Mental health awareness has increased significantly in recent years, leading to reduced stigma and more open conversations about psychological well-being. This shift has been driven by various factors, including celebrity advocacy, social media campaigns, and scientific research highlighting the prevalence of mental health conditions. Workplace mental health programs, school-based interventions, and community support initiatives have become more common. However, despite increased awareness, access to mental health services remains limited in many areas, particularly in rural communities and among low-income populations, highlighting the need for continued investment in mental health infrastructure and services.",  "question": "What has contributed to increased mental health awareness?",  "options": [  "Only scientific research",  "Celebrity advocacy, social media campaigns, and scientific research",  "Only social media campaigns",  "Government regulations alone"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Celebrity advocacy, social media campaigns, and scientific research' karena ketiganya disebutkan sebagai faktor peningkatan kesadaran kesehatan mental."  },  {  "id": 29,  "passage": "3D printing, also known as additive manufacturing, creates three-dimensional objects by depositing material layer by layer based on digital designs. This technology has applications across numerous industries, from aerospace and automotive manufacturing to healthcare and education. In medicine, 3D printing is used to create custom prosthetics, surgical implants, and even bioprinted tissues. The technology offers advantages such as rapid prototyping, customization, reduced waste, and the ability to create complex geometries that would be difficult or impossible to achieve with traditional manufacturing methods. As materials and printing technologies continue to improve, 3D printing is expected to revolutionize manufacturing and design processes.",  "question": "What is another name for 3D printing mentioned in the passage?",  "options": [  "Digital manufacturing",  "Layer manufacturing",  "Additive manufacturing",  "Custom manufacturing"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'Additive manufacturing' karena 3D printing juga dikenal sebagai additive manufacturing."  },  {  "id": 30,  "passage": "Cryptocurrency, digital currency secured by cryptography, has emerged as an alternative to traditional fiat currencies. Bitcoin, the first and most well-known cryptocurrency, was created in 2009 and operates on a decentralized network called blockchain. Cryptocurrencies offer potential benefits such as lower transaction fees, faster international transfers, and financial inclusion for unbanked populations. However, they also face challenges including price volatility, regulatory uncertainty, environmental concerns related to energy-intensive mining processes, and security risks from hacking and fraud. Despite these challenges, cryptocurrency adoption continues to grow among both individual investors and institutional players.",  "question": "When was Bitcoin created according to the passage?",  "options": [  "2007",  "2008",  "2009",  "2010"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah '2009' karena Bitcoin dibuat pada tahun 2009."  },  {  "id": 31,  "passage": "Ocean acidification, often called the 'other CO2 problem,' occurs when seawater absorbs carbon dioxide from the atmosphere, causing the ocean's pH to decrease. This process is happening at an unprecedented rate due to increased atmospheric CO2 levels from human activities. Ocean acidification poses significant threats to marine ecosystems, particularly organisms that build shells or skeletons from calcium carbonate, such as corals, mollusks, and some plankton species. These changes can disrupt marine food chains and affect fisheries that millions of people depend on for food and livelihood. Addressing ocean acidification requires global efforts to reduce carbon emissions.",  "question": "Why is ocean acidification called the 'other CO2 problem'?",  "options": [  "It occurs in addition to climate change as another consequence of increased atmospheric CO2",  "It produces more CO2 than climate change",  "It only affects CO2-producing organisms",  "It is less important than climate change"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'It occurs in addition to climate change as another consequence of increased atmospheric CO2' karena ocean acidification adalah masalah CO2 lain selain perubahan iklim."  },  {  "id": 32,  "passage": "Biophilic design is an approach to architecture and interior design that seeks to connect building occupants with nature. This design philosophy incorporates natural elements such as plants, water features, natural light, and organic shapes into built environments. Research has shown that biophilic design can improve well-being, productivity, and creativity while reducing stress and fatigue. Applications range from living walls in office buildings to skylights that mimic natural light patterns and the use of natural materials like wood and stone. As urbanization increases, biophilic design offers a way to maintain our connection to nature in increasingly urban environments.",  "question": "What does biophilic design seek to do?",  "options": [  "Reduce construction costs",  "Connect building occupants with nature",  "Increase building size",  "Improve building security"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Connect building occupants with nature' karena biophilic design bertujuan menghubungkan penghuni bangunan dengan alam."  },  {  "id": 33,  "passage": "The concept of universal basic income (UBI) involves providing all citizens with regular, unconditional cash payments from the government, regardless of their employment status or other circumstances. Proponents argue that UBI could reduce poverty, provide economic security in an era of job automation, and simplify welfare systems. Several pilot programs around the world have tested UBI, with mixed results. Some studies show improvements in health, education, and entrepreneurship, while others raise concerns about work incentives and fiscal sustainability. The debate over UBI continues as societies grapple with changing labor markets and growing income inequality.",  "question": "What characterizes universal basic income payments?",  "options": [  "They are conditional on employment",  "They are only for unemployed people",  "They are regular and unconditional for all citizens",  "They are only for low-income families"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'They are regular and unconditional for all citizens' karena UBI diberikan secara rutin dan tanpa syarat kepada semua warga."  },  {  "id": 34,  "passage": "Epigenetics is the study of changes in gene expression that do not involve alterations to the underlying DNA sequence. These changes can be influenced by environmental factors such as diet, stress, and exposure to toxins, and some can be passed on to future generations. Epigenetic modifications play crucial roles in development, aging, and disease. Understanding epigenetics has important implications for medicine, as it suggests that some diseases may be preventable or treatable through lifestyle changes rather than genetic modification. This field is also revealing how experiences of parents and grandparents can influence the health and behavior of their descendants.",  "question": "What does epigenetics study?",  "options": [  "Changes in DNA sequence",  "Changes in gene expression without altering DNA sequence",  "Genetic mutations",  "Chromosome structure"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Changes in gene expression without altering DNA sequence' karena epigenetika mempelajari perubahan ekspresi gen tanpa mengubah urutan DNA."  },  {  "id": 35,  "passage": "Smart cities integrate information and communication technologies to improve the efficiency of urban services and enhance quality of life for residents. These cities use sensors, data analytics, and connected devices to optimize traffic flow, manage energy consumption, monitor air quality, and improve public safety. Examples of smart city technologies include intelligent transportation systems, smart grids for electricity distribution, and IoT sensors for waste management. While smart cities offer numerous benefits, they also raise concerns about data privacy, cybersecurity, and the digital divide that may exclude some residents from accessing these technological advantages.",  "question": "What do smart cities use to optimize urban services?",  "options": [  "Only traditional infrastructure",  "Sensors, data analytics, and connected devices",  "Manual monitoring systems",  "Increased human resources"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Sensors, data analytics, and connected devices' karena smart city menggunakan teknologi tersebut untuk mengoptimalkan layanan kota."  },  {  "id": 36,  "passage": "Regenerative agriculture is a farming approach that focuses on rebuilding soil health and increasing biodiversity while maintaining productive agricultural systems. This method emphasizes practices such as cover cropping, crop rotation, reduced tillage, and integrated livestock grazing to restore soil organic matter and sequester carbon. Regenerative agriculture not only improves soil fertility and water retention but also helps combat climate change by capturing atmospheric carbon dioxide in soil. Farmers adopting these practices often see improved yields over time, reduced input costs, and greater resilience to weather extremes.",  "question": "What is the primary focus of regenerative agriculture?",  "options": [  "Maximizing short-term profits",  "Rebuilding soil health and increasing biodiversity",  "Using more chemical fertilizers",  "Reducing crop variety"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Rebuilding soil health and increasing biodiversity' karena fokus utama pertanian regeneratif adalah memperbaiki kesehatan tanah dan keanekaragaman hayati."  },  {  "id": 37,  "passage": "Virtual reality (VR) technology creates immersive digital environments that users can interact with through specialized headsets and controllers. Beyond gaming and entertainment, VR has found applications in education, healthcare, training, and therapy. Medical students can practice procedures in risk-free virtual environments, patients can undergo VR-based therapy for phobias and PTSD, and employees can receive training for dangerous or complex tasks without real-world risks. As VR technology becomes more affordable and accessible, its potential for transforming various sectors continues to expand, though challenges remain regarding motion sickness, user comfort, and content development costs.",  "question": "How can VR benefit medical education according to the passage?",  "options": [  "By replacing all traditional teaching methods",  "By allowing students to practice procedures in risk-free virtual environments",  "By reducing the need for medical textbooks",  "By eliminating the need for clinical experience"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'By allowing students to practice procedures in risk-free virtual environments' karena VR memungkinkan praktik medis tanpa risiko nyata."  },  {  "id": 38,  "passage": "The blue economy encompasses economic activities that depend on healthy oceans, seas, and coastal areas while promoting sustainable use of marine resources. This approach recognizes that ocean health and economic prosperity are interconnected. Blue economy sectors include sustainable fisheries, marine biotechnology, coastal tourism, renewable ocean energy, and shipping. The concept emphasizes balancing economic growth with environmental protection and social equity. As climate change and pollution threaten marine ecosystems, the blue economy framework provides a pathway for countries to develop their maritime sectors while ensuring long-term sustainability of ocean resources.",  "question": "What does the blue economy encompass?",  "options": [  "Only fishing industries",  "Economic activities that depend on healthy oceans while promoting sustainable use",  "All coastal construction projects",  "Marine pollution cleanup only"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Economic activities that depend on healthy oceans while promoting sustainable use' karena blue economy mencakup aktivitas ekonomi yang bergantung pada laut sehat dan penggunaan berkelanjutan."  },  {  "id": 39,  "passage": "Precision agriculture uses technology to optimize farming practices and increase crop yields while minimizing environmental impact. This approach employs GPS guidance, drones, sensors, and data analytics to monitor crop health, soil conditions, and weather patterns. Farmers can apply fertilizers, pesticides, and water more precisely, reducing waste and costs while improving productivity. Variable rate technology allows different treatment of different areas within the same field based on specific needs. As global food demand increases and environmental concerns grow, precision agriculture offers a way to produce more food with fewer resources.",  "question": "What technology does precision agriculture employ?",  "options": [  "Only traditional farming tools",  "GPS guidance, drones, sensors, and data analytics",  "Only weather monitoring equipment",  "Manual field inspection methods"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'GPS guidance, drones, sensors, and data analytics' karena precision agriculture menggunakan teknologi tersebut."  },  {  "id": 40,  "passage": "Biomimicry is the practice of learning from and mimicking the forms, processes, and ecosystems of nature to solve human problems. This approach has led to numerous innovations, from Velcro inspired by burr seeds to more efficient wind turbine blades modeled after whale fins. Nature has evolved solutions to complex challenges over millions of years, making it an excellent source of inspiration for sustainable design and engineering. Biomimicry promotes innovation that is sustainable because it is based on nature's time-tested patterns and strategies. This field continues to drive breakthroughs in materials science, robotics, and environmental technology.",  "question": "What is biomimicry?",  "options": [  "The study of animal behavior",  "Learning from and mimicking nature to solve human problems",  "The preservation of natural habitats",  "The genetic modification of organisms"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Learning from and mimicking nature to solve human problems' karena biomimicry adalah meniru alam untuk solusi manusia."  },  {  "id": 41,  "passage": "Digital twins are virtual replicas of physical objects, processes, or systems that are updated in real-time with data from their physical counterparts. This technology enables monitoring, analysis, and optimization of performance without direct interaction with the physical system. Digital twins are used in manufacturing to predict equipment failures, in healthcare to model patient conditions, and in urban planning to simulate city operations. By providing insights into how systems behave under different conditions, digital twins help reduce costs, improve efficiency, and enable predictive maintenance. As IoT devices become more prevalent, the applications for digital twin technology continue to expand.",  "question": "What are digital twins?",  "options": [  "Identical physical copies of objects",  "Virtual replicas updated in real-time with data from physical counterparts",  "Computer backup systems",  "Digital photographs of objects"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Virtual replicas updated in real-time with data from physical counterparts' karena digital twins adalah replika virtual yang diperbarui secara real-time."  },  {  "id": 42,  "passage": "The concept of work-life integration has emerged as an alternative to the traditional work-life balance approach. Rather than trying to maintain strict boundaries between work and personal life, work-life integration focuses on blending both aspects in a way that aligns with individual priorities and values. This approach recognizes that the rigid separation of work and life may not be realistic or desirable for everyone, especially in today's connected world. Successful work-life integration requires clear communication with employers, setting boundaries where necessary, and being intentional about how time and energy are allocated across different life domains.",  "question": "How does work-life integration differ from work-life balance?",  "options": [  "It requires working longer hours",  "It focuses on blending work and personal life rather than maintaining strict boundaries",  "It eliminates personal time entirely",  "It only applies to remote workers"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'It focuses on blending work and personal life rather than maintaining strict boundaries' karena work-life integration menekankan pencampuran kerja dan kehidupan pribadi."  },  {  "id": 43,  "passage": "Synthetic biology is an emerging field that applies engineering principles to biological systems, enabling the design and construction of new biological parts, devices, and systems. This discipline combines biology, chemistry, computer science, and engineering to create organisms with novel functions, such as bacteria that can produce pharmaceuticals or algae that generate biofuels. Synthetic biology has potential applications in medicine, agriculture, environmental remediation, and manufacturing. However, this powerful technology also raises ethical, safety, and security concerns that require careful consideration and regulation as the field continues to advance.",  "question": "What does synthetic biology combine?",  "options": [  "Only biology and chemistry",  "Biology, chemistry, computer science, and engineering",  "Only computer science and engineering",  "Traditional farming and modern technology"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Biology, chemistry, computer science, and engineering' karena synthetic biology menggabungkan keempat bidang tersebut."  },  {  "id": 44,  "passage": "Microlearning is an educational approach that delivers content in small, focused segments that can be consumed quickly and easily. This method aligns with how people naturally learn and retain information, taking advantage of the spacing effect and reducing cognitive overload. Microlearning is particularly effective for busy professionals who need to acquire new skills or knowledge while managing demanding schedules. The approach is well-suited to mobile devices and can include various formats such as short videos, infographics, quizzes, and interactive modules. As attention spans decrease and the need for continuous learning increases, microlearning has become increasingly popular in both corporate training and educational settings.",  "question": "What characterizes microlearning?",  "options": [  "Long, comprehensive courses",  "Content delivered in small, focused segments",  "Traditional classroom lectures",  "Complex theoretical frameworks"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Content delivered in small, focused segments' karena microlearning menyajikan materi dalam segmen kecil dan terfokus."  },  {  "id": 45,  "passage": "Urban farming brings food production into cities through various methods including rooftop gardens, vertical farms, and community gardens. This practice offers numerous benefits: reduced food miles and associated carbon emissions, increased food security, improved access to fresh produce in food deserts, and opportunities for community engagement and education. Urban farming can also help manage stormwater runoff and improve air quality. While challenges exist, such as soil contamination, limited space, and zoning regulations, innovative techniques and supportive policies are making urban agriculture increasingly viable as cities seek to become more sustainable and resilient.",  "question": "What are the benefits of urban farming mentioned in the passage?",  "options": [  "Only reduced transportation costs",  "Reduced food miles, increased food security, and improved community engagement",  "Only better air quality",  "Elimination of all traditional farming"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Reduced food miles, increased food security, and improved community engagement' karena manfaat urban farming yang disebutkan adalah mengurangi jarak tempuh makanan, meningkatkan ketahanan pangan, dan keterlibatan komunitas."  },  {  "id": 46,  "passage": "Behavioral economics combines insights from psychology and economics to understand how people make decisions in real-world situations. Traditional economic theory assumes people are rational actors who always make optimal choices, but behavioral economics reveals that human decision-making is often influenced by cognitive biases, emotions, and social factors. Key concepts include loss aversion (people feel losses more strongly than equivalent gains), anchoring bias (over-relying on the first piece of information encountered), and present bias (overvaluing immediate rewards). Understanding these behavioral patterns has practical applications in public policy, marketing, and personal finance, helping design systems that account for human psychology.",  "question": "What does traditional economic theory assume about people?",  "options": [  "People are influenced by emotions",  "People are rational actors who always make optimal choices",  "People make random decisions",  "People are primarily motivated by social factors"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'People are rational actors who always make optimal choices' karena teori ekonomi tradisional mengasumsikan manusia selalu rasional."  },  {  "id": 47,  "passage": "Edge computing is a distributed computing paradigm that brings computation and data storage closer to the sources of data, rather than relying on centralized cloud servers. This approach reduces latency, conserves bandwidth, and improves response times for applications that require real-time processing. Edge computing is particularly important for Internet of Things (IoT) devices, autonomous vehicles, and augmented reality applications where milliseconds can make a critical difference. By processing data locally, edge computing also enhances privacy and security by reducing the amount of sensitive data transmitted over networks. As 5G networks expand, edge computing capabilities are expected to grow significantly.",  "question": "What is the main advantage of edge computing over centralized cloud servers?",  "options": [  "Lower equipment costs",  "Reduces latency and improves response times",  "Requires less technical expertise",  "Uses less electricity"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Reduces latency and improves response times' karena keunggulan utama edge computing adalah mengurangi latensi dan meningkatkan respons."  },  {  "id": 48,  "passage": "Social impact bonds (SIBs) are innovative financing mechanisms that bring together public and private sectors to fund programs addressing social issues. In a SIB arrangement, private investors provide upfront capital to fund social programs, and they receive returns based on the achievement of predetermined social outcomes. This pay-for-success model shifts the financial risk from government to private investors while incentivizing effective program delivery. SIBs have been used to fund programs in areas such as criminal justice reform, workforce development, and early childhood education. While promising, SIBs also face challenges related to outcome measurement, contract complexity, and ensuring that social goals are not compromised by profit motives.",  "question": "How do investors receive returns in social impact bonds?",  "options": [  "Through guaranteed government payments",  "Based on the achievement of predetermined social outcomes",  "Through traditional market investments",  "Only if programs fail to meet goals"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Based on the achievement of predetermined social outcomes' karena dalam SIB, investor menerima pengembalian jika tujuan sosial yang telah ditentukan sebelumnya tercapai."  },  {  "id": 49,  "passage": "Neuromorphic computing is a computing approach that mimics the structure and function of the human brain. Unlike traditional computers that process information sequentially, neuromorphic systems process information in parallel, similar to how neurons in the brain work together. This architecture is particularly well-suited for tasks involving pattern recognition, sensory processing, and machine learning. Neuromorphic chips consume significantly less power than conventional processors while handling certain types of computations more efficiently. As artificial intelligence applications become more sophisticated and energy efficiency becomes increasingly important, neuromorphic computing represents a promising alternative to traditional computing architectures.",  "question": "How does neuromorphic computing differ from traditional computing?",  "options": [  "It uses more electricity",  "It processes information in parallel, mimicking the human brain",  "It only works with simple calculations",  "It requires larger computer systems"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'It processes information in parallel, mimicking the human brain' karena neuromorphic computing meniru cara kerja otak manusia yang memproses informasi secara paralel."  },  {  "id": 50,  "passage": "The concept of planetary boundaries defines the safe operating space for humanity by identifying nine Earth system processes and their thresholds that should not be crossed to maintain a stable planet. These boundaries include climate change, biodiversity loss, nitrogen and phosphorus cycles, ocean acidification, land use change, freshwater use, ozone depletion, atmospheric aerosols, and chemical pollution. Scientists estimate that humanity has already transgressed at least four of these boundaries, putting the Earth system at risk of irreversible changes. The planetary boundaries framework provides a science-based approach for sustainable development and highlights the interconnectedness of Earth's systems and the need for global cooperation in environmental governance.",  "question": "How many planetary boundaries have been identified?",  "options": [  "Seven",  "Eight",  "Nine",  "Ten"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'Nine' karena disebutkan bahwa terdapat sembilan proses sistem Bumi yang diidentifikasi sebagai batas planet."  }  ]  } |

**Penjelasan:**

**1.Struktur Utama JSON**

{

"title": "Reading Comprehension",

"timeLimit": 3300,

"instructions": "...",

"questions": [ ... ]

}

**Penjelasan dan Fungsinya:**

|  |  |
| --- | --- |
| **Elemen** | **Fungsi** |
| title | Judul bagian tes |
| timeLimit | Batas waktu dalam **detik** (3300 detik = 55 menit). |
| Instructions | Petunjuk umum untuk peserta. |
| questions | Daftar soal dalam bentuk array ([]) dari objek soal. |

**2.Struktur Tiap Soal**

Contoh sampel soal

{

"id": 1,

"passage": "Teks bacaan...",

"question": "Pertanyaan terkait bacaan...",

"options": [

"Pilihan A",

"Pilihan B",

"Pilihan C",

"Pilihan D"

],

"correct": 2,

"explanation": "Penjelasan mengapa jawaban nomor 2 benar"

}

**Penjelasan dan Fungsinya:**

|  |  |
| --- | --- |
| **Elemen** | **Fungsi** |
| id | Nomor soal. Digunakan untuk identifikasi. |
| passage | Teks bacaan yang menjadi dasar pertanyaan. |
| question | Pertanyaan yang diajukan kepada peserta |
| options | Array berisi 4 pilihan jawaban (A–D). |
| correct | Indeks jawaban benar (0 = pilihan pertama, 1 = pilihan kedua, dst). |
| explanation | Penjelasan kenapa jawaban itu benar (bisa ditampilkan setelah tes). |

**3.structure.json**

|  |
| --- |
| {  "title": "Structure and Written Expression",  "timeLimit": 1500,  "instructions": "This section tests your knowledge of English grammar and structure. Choose the best answer to complete each sentence. You have 25 minutes to complete this section.",  "questions": [  {  "id": 1,  "question": "The committee \_\_\_\_\_ its decision after lengthy deliberation.",  "options": [  "have made",  "has made",  "had made",  "making"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'has made' karena 'committee' dianggap sebagai satu kesatuan (singular subject)."  },  {  "id": 2,  "question": "Neither the teacher nor the students \_\_\_\_\_ satisfied with the test results.",  "options": [  "was",  "were",  "is",  "are"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'were' karena subjeknya adalah 'students' yang merupakan jamak."  },  {  "id": 3,  "question": "By the time she arrives, we \_\_\_\_\_ our work.",  "options": [  "will finish",  "will have finished",  "finished",  "have finished"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'will have finished' untuk menunjukkan bahwa pekerjaan sudah selesai sebelum dia tiba."  },  {  "id": 4,  "question": "The book \_\_\_\_\_ I bought yesterday is very interesting.",  "options": [  "who",  "whom",  "which",  "whose"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'which' karena merujuk pada benda (book)."  },  {  "id": 5,  "question": "She would have passed the exam if she \_\_\_\_\_ harder.",  "options": [  "studied",  "had studied",  "studies",  "would study"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'had studied' untuk menunjukkan kondisi yang tidak nyata di masa lalu."  },  {  "id": 6,  "question": "\_\_\_\_\_ the weather was bad, they decided to go hiking.",  "options": [  "Despite",  "Although",  "Because of",  "Due to"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Although' diikuti dengan klausa subjek + predikat."  },  {  "id": 7,  "question": "The research \_\_\_\_\_ by Dr. Smith was groundbreaking.",  "options": [  "conducted",  "conducting",  "conducts",  "conduct"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'conducted' karena merupakan bentuk lampau dari kata kerja 'conduct'."  },  {  "id": 8,  "question": "I wish I \_\_\_\_\_ more time to finish the project.",  "options": [  "have",  "had",  "will have",  "would have"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'had' untuk menunjukkan keinginan yang bertentangan dengan kenyataan."  },  {  "id": 9,  "question": "The meeting has been postponed \_\_\_\_\_ next week.",  "options": [  "until",  "since",  "during",  "while"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'until' diikuti dengan waktu tertentu."  },  {  "id": 10,  "question": "Not only \_\_\_\_\_ late, but he also forgot his presentation.",  "options": [  "he was",  "was he",  "he is",  "is he"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'was he' untuk membentuk kalimat tanya terbalik (inverted question)."  },  {  "id": 11,  "question": "The students were asked \_\_\_\_\_ their essays by Friday.",  "options": [  "submitting",  "to submit",  "submit",  "submitted"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'to submit' untuk menunjukkan tujuan atau maksud."  },  {  "id": 12,  "question": "\_\_\_\_\_ carefully, the instructions are easy to follow.",  "options": [  "Reading",  "Read",  "When read",  "Having read"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'When read' untuk menunjukkan waktu membaca."  },  {  "id": 13,  "question": "The company's profits have increased \_\_\_\_\_ 15% this year.",  "options": [  "by",  "with",  "for",  "at"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'by' untuk menunjukkan besaran kenaikan."  },  {  "id": 14,  "question": "She is one of the few people \_\_\_\_\_ can speak five languages fluently.",  "options": [  "who",  "whom",  "which",  "that"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'who' karena merujuk pada orang (people)."  },  {  "id": 15,  "question": "The problem \_\_\_\_\_ we discussed yesterday needs immediate attention.",  "options": [  "what",  "that",  "when",  "where"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'that' untuk merujuk pada masalah yang dibicarakan."  },  {  "id": 16,  "question": "\_\_\_\_\_ he studied hard, he failed the examination.",  "options": [  "Because",  "Since",  "Although",  "As"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'Although' diikuti dengan klausa subjek + predikat."  },  {  "id": 17,  "question": "The manager suggested \_\_\_\_\_ the meeting until next month.",  "options": [  "postponing",  "to postpone",  "postpone",  "postponed"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'postponing' setelah kata kerja 'suggested'."  },  {  "id": 18,  "question": "If I \_\_\_\_\_ you, I would accept the job offer.",  "options": [  "am",  "was",  "were",  "will be"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'were' untuk menunjukkan kondisi yang tidak nyata."  },  {  "id": 19,  "question": "The letter \_\_\_\_\_ yesterday contained important information.",  "options": [  "received",  "receiving",  "receive",  "to receive"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'received' karena merupakan bentuk lampau dari kata kerja 'receive'."  },  {  "id": 20,  "question": "\_\_\_\_\_ his age, he runs very fast.",  "options": [  "Despite",  "Although",  "Because",  "Since"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'Despite' diikuti dengan kata benda (his age)."  },  {  "id": 21,  "question": "The conference will be held \_\_\_\_\_ May 15th \_\_\_\_\_ May 17th.",  "options": [  "from / to",  "between / and",  "since / until",  "during / and"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'from / to' untuk menunjukkan rentang waktu."  },  {  "id": 22,  "question": "She has been working here \_\_\_\_\_ she graduated from college.",  "options": [  "for",  "since",  "during",  "while"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'since' diikuti dengan waktu tertentu (she graduated from college)."  },  {  "id": 23,  "question": "The movie \_\_\_\_\_ we watched last night was excellent.",  "options": [  "who",  "whom",  "that",  "whose"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'that' karena merujuk pada benda (movie)."  },  {  "id": 24,  "question": "I would rather \_\_\_\_\_ at home than go to the party.",  "options": [  "stay",  "staying",  "to stay",  "stayed"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'stay' setelah 'would rather'."  },  {  "id": 25,  "question": "The professor asked the students \_\_\_\_\_ quietly during the exam.",  "options": [  "work",  "working",  "to work",  "worked"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'to work' untuk menunjukkan tujuan atau maksud."  },  {  "id": 26,  "question": "\_\_\_\_\_ the heavy rain, the match was cancelled.",  "options": [  "Because",  "Due to",  "Although",  "Despite"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'Due to' diikuti dengan kata benda (the heavy rain)."  },  {  "id": 27,  "question": "The children were playing \_\_\_\_\_ the garden when it started to rain.",  "options": [  "in",  "at",  "on",  "under"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'in' untuk menunjukkan lokasi di dalam taman."  },  {  "id": 28,  "question": "She speaks English \_\_\_\_\_ fluently \_\_\_\_\_ her native language.",  "options": [  "as / as",  "so / as",  "more / than",  "such / as"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'as / as' untuk membandingkan tingkat kefasihan."  },  {  "id": 29,  "question": "The new employee is expected \_\_\_\_\_ his duties immediately.",  "options": [  "starting",  "to start",  "start",  "started"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'to start' untuk menunjukkan maksud atau tujuan."  },  {  "id": 30,  "question": "\_\_\_\_\_ you finish your homework, you can watch television.",  "options": [  "Until",  "Before",  "After",  "While"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'After' untuk menunjukkan urutan waktu."  },  {  "id": 31,  "question": "The government has announced \_\_\_\_\_ taxes next year.",  "options": [  "to increase",  "increasing",  "increase",  "increased"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'to increase' untuk menunjukkan rencana atau maksud."  },  {  "id": 32,  "question": "She is \_\_\_\_\_ intelligent \_\_\_\_\_ her sister.",  "options": [  "as / as",  "so / than",  "more / as",  "such / than"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'as / as' untuk membandingkan tingkat kecerdasan."  },  {  "id": 33,  "question": "The project \_\_\_\_\_ completed by the end of the month.",  "options": [  "will be",  "will have been",  "would be",  "would have been"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'will be' untuk menunjukkan rencana di masa depan."  },  {  "id": 34,  "question": "\_\_\_\_\_ I agree with you in principle, I think your plan is impractical.",  "options": [  "Because",  "Since",  "While",  "As"  ],  "correct": 2,  "explanation": "Jawaban yang benar adalah 'While' diikuti dengan klausa subjek + predikat."  },  {  "id": 35,  "question": "The museum \_\_\_\_\_ we visited yesterday has a wonderful collection.",  "options": [  "where",  "which",  "who",  "when"  ],  "correct": 1,  "explanation": "Jawaban yang benar adalah 'which' karena merujuk pada benda (museum)."  },  {  "id": 36,  "question": "I can't remember \_\_\_\_\_ I put my keys.",  "options": [  "where",  "what",  "when",  "why"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'where' untuk menanyakan lokasi."  },  {  "id": 37,  "question": "The train \_\_\_\_\_ at 3:30 PM every day.",  "options": [  "leaves",  "is leaving",  "will leave",  "has left"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'leaves' untuk menunjukkan jadwal tetap."  },  {  "id": 38,  "question": "\_\_\_\_\_ hard he tried, he couldn't solve the problem.",  "options": [  "However",  "Whatever",  "Whenever",  "Wherever"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'However' untuk menunjukkan kontras."  },  {  "id": 39,  "question": "The company is looking for someone \_\_\_\_\_ has experience in marketing.",  "options": [  "who",  "whom",  "which",  "whose"  ],  "correct": 0,  "explanation": "Jawaban yang benar adalah 'who' karena merujuk pada orang (someone)."  },  {  "id": 40,  "question": "By next year, they \_\_\_\_\_ in this city for ten years.",  "options": [  "will live",  "will be living",  "will have lived",  "will have been living"  ],  "correct": 3,  "explanation": "Jawaban yang benar adalah 'will have been living' untuk menunjukkan durasi yang dimulai di masa lalu dan berlanjut hingga sekarang."  }  ]  } |

**Penjelasan**

**1.Struktur Utama JSON**

{

"title": "Structure and Written Expression",

"timeLimit": 1500,

"instructions": "This section tests your knowledge of English grammar and structure..."

}

**Fungsi dan penjelasannya:**

|  |  |
| --- | --- |
| **Elemen** | **Fungsi** |
| title | Judul bagian tes |
| timeLimit | Batas waktu dalam **detik** (3300 detik = 55 menit). |
| Instructions | Petunjuk umum untuk peserta. |

**2.Array of Questions**

"questions": [

{

"id": 1,

"question": "The committee \_\_\_\_\_ its decision after lengthy deliberation.",

"options": ["have made", "has made", "had made", "making"],

"correct": 1,

"explanation": "Jawaban yang benar adalah 'has made'..."

},

...

]

**Penjelasan dan Fungsinya:**

|  |  |
| --- | --- |
| **Elemen** | **Fungsi** |
| id | Nomor soal. Digunakan untuk identifikasi. |
| question | Pertanyaan yang diajukan kepada peserta |
| options | Array berisi 4 pilihan jawaban (A–D). |
| correct | Indeks jawaban benar (0 = pilihan pertama, 1 = pilihan kedua, dst). |
| explanation | Penjelasan kenapa jawaban itu benar (bisa ditampilkan setelah tes). |

# **Halaman Riwayat Tes TOEFL**

## **Source Code Riwayat Tes**

* **Code Program HTML**

|  |
| --- |
| <!DOCTYPE html>  <html lang="id">  <head>  <meta charset="UTF-8">  <meta name="viewport" content="width=device-width, initial-scale=1.0">  <title>Riwayat Tes TOEFL - TOEL.id</title>  <link rel="stylesheet" href="/css/global.css">  <link rel="stylesheet" href="/css/components/sidebar.css">  <link rel="stylesheet" href="/css/pages/dashboard/riwayat-tes.css">  <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap" rel="stylesheet">  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.2/css/all.min.css">  </head>  <body>  <div class="dashboard-container">  <!-- Sidebar -->  <aside class="sidebar">  <div class="logo">TOEL.id</div>  <nav class="menu">  <a href="/dashboard" class=""><i class="fas fa-home"></i> Dashboard</a>  <a href="/dashboard/riwayat-tes" class="active"><i class="fas fa-history"></i> Riwayat Tes</a>  <a href="/dashboard/profile-edit"><i class="fas fa-user"></i> Edit Profil</a>  <a href="/test"><i class="fas fa-file-alt"></i> Mulai Tes</a>  </nav>  <button class="logout-btn" onclick="logout()"><i class="fas fa-sign-out-alt"></i> Logout</button>  </aside>  <!-- Main Content -->  <main class="main-content">  <h1>Riwayat Tes TOEFL</h1>    <div class="stats-container">  <div class="stat-card">  <h3>Total Tes</h3>  <div class="stat-value" id="totalTests">0</div>  </div>  <div class="stat-card">  <h3>Skor Tertinggi</h3>  <div class="stat-value" id="highestScore">0</div>  </div>  <div class="stat-card">  <h3>Rata-rata Skor</h3>  <div class="stat-value" id="averageScore">0</div>  </div>  </div>    <div class="filter-container">  <select id="modeFilter" class="filter-select">  <option value="all">Semua Mode</option>  <option value="ujian">Ujian</option>  <option value="latihan">Latihan</option>  </select>  <select id="typeFilter" class="filter-select">  <option value="all">Semua Tipe</option>  <option value="Full">TOEFL Lengkap</option>  <option value="Listening">Listening</option>  <option value="Structure">Structure</option>  <option value="Reading">Reading</option>  </select>  <button id="resetAllBtn" class="btn-danger">  <i class="fas fa-trash"></i> Reset Semua Data  </button>  </div>    <div class="table-responsive">  <table class="history-table">  <thead>  <tr>  <th>Tanggal</th>  <th>Mode</th>  <th>Tipe</th>  <th>Listening</th>  <th>Structure</th>  <th>Reading</th>  <th>Total Skor</th>  <th>Status</th>  <th>Aksi</th>  </tr>  </thead>  <tbody id="historyTableBody">  <tr>  <td colspan="9" class="text-center">Memuat data...</td>  </tr>  </tbody>  </table>  </div>  <!-- Modal Sertifikat -->  <div id="certificateModal" class="modal">  <div class="modal-content">  <span class="close-btn" onclick="closeModal()">&times;</span>  <div id="certificateContent"></div>  <div class="modal-footer">  <button onclick="printCertificate()" class="btn-cetak">  <i class="fas fa-print"></i> Cetak Sertifikat  </button>  </div>  </div>  </div>  </main>  </div>  <script src="/js/utils/auth.js"></script>  <script src="/js/pages/dashboard/riwayat-tes.js"></script>  </body>  </html> |

**Penjelasan Program**

1. **Struktur Dokumen HTML**

<!DOCTYPE html>

<html lang="id">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Riwayat Tes TOEFL - TOEL.id</title>

<link rel="stylesheet" href="/css/global.css">

<link rel="stylesheet" href="/css/components/sidebar.css">

<link rel="stylesheet" href="/css/pages/dashboard/riwayat-tes.css">

<link href="https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap" rel="stylesheet">

<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.4.2/css/all.min.css">

</head>

**Penjelasan**:

* <!DOCTYPE html>: Deklarasi dokumen HTML5.
* lang="id": Bahasa halaman adalah Bahasa Indonesia.
* meta charset: Dukungan karakter lokal (Latin & Indonesia).
* viewport: Responsif di HP/tablet.
* title: Judul yang muncul di tab browser.
* **global.css**: Style umum seluruh website.
* **sidebar.css**: Style sidebar dashboard.
* **riwayat-tes.css**: Style khusus halaman ini.
* Poppins = font utama website.
* Font Awesome = ikon-ikon seperti fa-history, fa-print, fa-trash.

1. **Bagian Body**
2. **Container Utama**

<div class="dashboard-container">

**Penjelasan**:

* Flex container yang membungkus sidebar + konten utama.

1. **Sidebar**
2. **Menu Navigasi**

<aside class="sidebar">

<div class="logo">TOEL.id</div>

<nav class="menu">

<a href="/dashboard" class=""><i class="fas fa-home"></i> Dashboard</a>

<a href="/dashboard/riwayat-tes" class="active"><i class="fas fa-history"></i> Riwayat Tes</a>

<a href="/dashboard/profile-edit"><i class="fas fa-user"></i> Edit Profil</a>

<a href="/test"><i class="fas fa-file-alt"></i> Mulai Tes</a>

</nav>

<button class="logout-btn" onclick="logout()"><i class="fas fa-sign-out-alt"></i> Logout</button>

</aside>

**Penjelasan**:

* **Dashboard** → /dashboard
* **Riwayat Tes** (aktif) → /dashboard/riwayat-tes
* **Edit Profil** → /dashboard/profile-edit
* **Mulai Tes** → /test

1. **Tombol Logout**

<button class="logout-btn" onclick="logout()"><i class="fas fa-sign-out-alt"></i> Logout</button>

**Penjelasan**:

* Memanggil fungsi logout() dari auth.js.

1. **Main Content**

<main class="main-content">...</main>

**Penjelasan**:

* Sebagai pembungkus dari:
* **Judul Halaman**

<h1>Riwayat Tes TOEFL</h1>

**Penjelasan**: Sebagai Judul Halaman

* **Statistik Ringkas**

<div class="stats-container">

<div class="stat-card">

<h3>Total Tes</h3>

<div class="stat-value" id="totalTests">0</div>

</div>

<div class="stat-card">

<h3>Skor Tertinggi</h3>

<div class="stat-value" id="highestScore">0</div>

</div>

<div class="stat-card">

<h3>Rata-rata Skor</h3>

<div class="stat-value" id="averageScore">0</div>

</div>

</div>

**Penjelasan**:

Menampilkan 3 kartu info:

* **Total Tes** → #totalTests
* **Skor Tertinggi** → #highestScore
* **Rata-rata Skor** → #averageScore

Isi masing-masing akan diisi dengan JavaScript dari riwayat-tes.js.

* **Filter Data Tes**

<div class="filter-container">

<select id="modeFilter" class="filter-select">

<option value="all">Semua Mode</option>

<option value="ujian">Ujian</option>

<option value="latihan">Latihan</option>

</select>

<select id="typeFilter" class="filter-select">

<option value="all">Semua Tipe</option>

<option value="Full">TOEFL Lengkap</option>

<option value="Listening">Listening</option>

<option value="Structure">Structure</option>

<option value="Reading">Reading</option>

</select>

<button id="resetAllBtn" class="btn-danger">

<i class="fas fa-trash"></i> Reset Semua Data

</button>

</div> **Penjelasan**:

Filter Mode:

* Semua
* Ujian
* Latihan

Filter Tipe Tes:

* Semua
* Full (Lengkap)
* Listening
* Structure
* Reading

Tombol Reset

* Menghapus seluruh data riwayat dari localStorage.
* **Tabel Riwayat**

<div class="table-responsive">

<table class="history-table">

<thead>

<tr>

<th>Tanggal</th>

<th>Mode</th>

<th>Tipe</th>

<th>Listening</th>

<th>Structure</th>

<th>Reading</th>

<th>Total Skor</th>

<th>Status</th>

<th>Aksi</th>

</tr>

</thead>

<tbody id="historyTableBody">

<tr>

<td colspan="9" class="text-center">Memuat data...</td>

</tr>

</tbody>

</table>

</div> **Penjelasan**:

Tabel berisi daftar tes sebelumnya, dengan kolom:

* Tanggal
* Mode
* Tipe
* Listening
* Structure
* Reading
* Total Skor
* Status
* Aksi (lihat sertifikat)

Data akan dimuat secara dinamis oleh JavaScript.

1. **Modal Sertifikat**

<div id="certificateModal" class="modal">

<div class="modal-content">

<span class="close-btn" onclick="closeModal()">&times;</span>

<div id="certificateContent"></div>

<div class="modal-footer">

<button onclick="printCertificate()" class="btn-cetak">

<i class="fas fa-print"></i> Cetak Sertifikat

</button>

</div>

</div>

</div>

**Penjelasan**:

* Ditampilkan jika pengguna klik tombol "Lihat Sertifikat".
* Menampilkan data skor + identitas.
* Tombol printCertificate() untuk mencetak sebagai PDF atau kertas.

1. **Script JavaScript**

<script src="/js/utils/auth.js"></script>

<script src="/js/pages/dashboard/riwayat-tes.js"></script>

**Penjelasan**:

* auth.js → untuk logout dan autentikasi user.
* riwayat-tes.js → memuat riwayat dari localStorage, mengisi statistik, menerapkan filter, mengatur modal.
* **Code Program CSS**

|  |
| --- |
| /\* Layout utama \*/  body {  display: flex;  min-height: 100vh;  margin: 0;  background: #f8f9fa;  }  .dashboard-container {  display: flex;  min-height: 100vh;  }  /\* Sidebar styling \*/  .sidebar {  width: 250px;  background: var(--primary-color);  color: white;  padding: 2rem 1.5rem;  display: flex;  flex-direction: column;  position: fixed;  height: 100vh;  }  .logo {  font-size: 1.8rem;  font-weight: 700;  margin-bottom: 3rem;  text-align: left;  }  .menu {  display: flex;  flex-direction: column;  gap: 0.8rem;  flex: 1;  }  .menu a {  display: flex;  align-items: center;  gap: 1rem;  padding: 1rem;  color: white;  text-decoration: none;  border-radius: 10px;  transition: all 0.3s ease;  }  .menu a:hover,  .menu a.active {  background: rgba(255, 255, 255, 0.1);  }  .menu a i {  width: 24px;  text-align: center;  font-size: 1.2rem;  }  .logout-btn {  margin-top: auto;  background: #ff4757;  color: white;  border: none;  padding: 1rem;  border-radius: 10px;  display: flex;  align-items: center;  gap: 1rem;  cursor: pointer;  transition: all 0.3s ease;  }  .logout-btn:hover {  background: #ff6b81;  }  /\* Main content styling \*/  .main-content {  flex: 1;  margin-left: 250px;  padding: 2rem;  background: #f8f9fa;  }  /\* Stats container \*/  .stats-container {  display: grid;  grid-template-columns: repeat(3, 1fr);  gap: 1.5rem;  margin-bottom: 2rem;  }  .stat-box {  background: white;  padding: 1.5rem;  border-radius: 10px;  box-shadow: 0 2px 8px rgba(0,0,0,0.1);  text-align: center;  }  .stat-box h3 {  color: #666;  margin-bottom: 0.5rem;  }  .stat-value {  font-size: 2.5rem;  font-weight: bold;  color: var(--primary-color);  }  /\* Filter container \*/  .filter-container {  display: flex;  gap: 1rem;  margin-bottom: 2rem;  align-items: center;  }  .filter-select {  padding: 0.5rem;  border: 1px solid #ddd;  border-radius: 4px;  min-width: 150px;  }  /\* Table styling \*/  .table-responsive {  background: white;  padding: 1rem;  border-radius: 10px;  box-shadow: 0 2px 8px rgba(0,0,0,0.1);  overflow-x: auto;  }  .history-table {  width: 100%;  border-collapse: collapse;  }  .history-table th,  .history-table td {  padding: 1rem;  text-align: left;  border-bottom: 1px solid #eee;  }  .history-table th {  font-weight: 600;  color: #666;  background: #f8f9fa;  }  /\* Badge styling \*/  .badge {  padding: 0.25rem 0.75rem;  border-radius: 50px;  font-size: 0.875rem;  font-weight: 500;  }  .badge-ujian { background: var(--primary-color); color: white; }  .badge-latihan { background: #4caf50; color: white; }  .badge-full { background: #9c27b0; color: white; }  .badge-belum-lulus { background: #f44336; color: white; }  .badge-lulus { background: #4caf50; color: white; }  /\* Action buttons \*/  .btn-action {  padding: 0.4rem 0.8rem;  border: none;  border-radius: 4px;  cursor: pointer;  margin: 0 0.2rem;  }  .btn-cetak { background: var(--primary-color); color: white; }  .btn-delete { background: #f44336; color: white; }  /\* Reset button \*/  .btn-danger {  background: #ff4757;  color: white;  border: none;  padding: 0.5rem 1rem;  border-radius: 4px;  cursor: pointer;  }  /\* Modal Styling \*/  .modal {  display: none; /\* Hidden by default \*/  position: fixed;  z-index: 1000;  left: 0;  top: 0;  width: 100%;  height: 100vh;  background: rgba(0, 0, 0, 0.5); /\* Semi-transparent overlay \*/  overflow: auto;  display: flex;  justify-content: center; /\* Center horizontally \*/  align-items: flex-start; /\* Align to top \*/  padding: 20px;  }  .close-btn {  position: absolute;  right: 20px;  top: 10px;  font-size: 24px;  font-weight: bold;  cursor: pointer;  color: #666;  }  /\* Certificate Styling \*/  .certificate {  width: 210mm; /\* A4 width in portrait \*/  height: 297mm; /\* A4 height in portrait \*/  padding: 10px;  background: white;  position: relative;  border-radius: 10px;  border: 2px solid #2471f3;  /\* REMOVE scale for preview \*/  box-shadow: 0 4px 12px rgba(0, 0, 0, 0.1);  margin: 0;  display: block;  /\* Remove unnecessary flex settings here \*/  }  .certificate::before {  content: '';  position: absolute;  top: 10px;  left: 10px;  right: 10px;  bottom: 10px;  border: 1px solid #2471f3;  }  .certificate-header {  text-align: center;  margin-bottom: 40px;  padding-bottom: 20px;  border-bottom: 2px solid #2471f3;  }  .certificate-title {  font-size: 36px;  color: #2471f3;  font-weight: bold;  margin-bottom: 10px;  }  .certificate-subtitle {  font-size: 16px;  color: #333;  }  .certificate-content {  text-align: center;  padding: 20px 40px;  }  .certificate-score {  font-size: 48px;  color: #2471f3;  font-weight: bold;  margin: 20px 0;  padding: 10px 30px;  display: inline-block;  border: 2px solid #2471f3;  border-radius: 8px;  }  .certificate-details {  margin: 30px 0;  font-size: 18px;  line-height: 1.8;  color: #333;  }  .certificate-status {  margin: 20px 0;  }  .status-lulus {  background: #e3fcef;  color: #0d9448;  padding: 5px 15px;  border-radius: 20px;  display: inline-block;  }  .status-tidak {  background: #ffe9e9;  color: #d63031;  padding: 5px 15px;  border-radius: 20px;  display: inline-block;  }  .certificate-footer {  position: absolute;  bottom: 40px;  left: 40px;  right: 40px;  text-align: center;  border-top: 2px solid #2471f3;  padding-top: 20px;  }  .certificate-validation {  font-size: 14px;  color: #666;  margin-top: 15px;  font-style: italic;  line-height: 1.5;  }  /\* Print styles \*/  @media print {  body \* {  visibility: hidden;  }  .certificate, .certificate \* {  visibility: visible;  }  .certificate {  display: block;  position: absolute;  left: 0;  top: 0;  max-width: 21cm; /\* A4 width in cm \*/  max-height: 29.7cm; /\* A4 height in cm \*/  margin: 0;  }  .btn-back, .btn-primary, .btn-cetak {  display: none;  }  @page {  size: A4 portrait;  margin: 0;  }  }  /\* Modal styling \*/  .modal {  display: none;  position: fixed;  z-index: 1000;  left: 0;  top: 0;  width: 100%;  height: 100%;  background: rgba(0, 0, 0, 0.5);  overflow: auto;  }  .modal-content {  background: #fff;  margin: 0 auto;  padding: 20px;  width: 1000px;  position: relative;  }  .close-btn {  position: absolute;  right: 20px;  top: 20px;  font-size: 24px;  cursor: pointer;  }  .modal-footer {  text-align: center;  margin-top: 20px;  }  .btn-cetak {  background: #219150;  color: #fff;  border: none;  border-radius: 8px;  padding: 0.7em 2em;  font-size: 1.1em;  font-weight: 500;  cursor: pointer;  transition: background 0.2s;  }  .btn-cetak:hover {  background: #146c43;  }  /\* Responsive design \*/  @media (max-width: 768px) {  .sidebar {  transform: translateX(-100%);  }    .sidebar.active {  transform: translateX(0);  }    .main-content {  margin-left: 0;  padding: 1rem;  }    .stats-container {  grid-template-columns: 1fr;  }    .filter-container {  flex-direction: column;  align-items: stretch;  }    .filter-select {  width: 100%;  }  } |

* **Penjelasan Program**

1. **Layout Umum**

body {

display: flex;

min-height: 100vh;

background: #f8f9fa;

}

**Penjelasan**:

* Mengatur layout flex secara horizontal (sidebar + konten).
* min-height: 100vh: halaman minimal setinggi layar penuh.

.dashboard-container {

display: flex;

min-height: 100vh;

}

**Penjelasan**:

* Kontainer utama berisi sidebar dan konten utama.

1. **Sidebar**

.sidebar {

width: 250px;

background: var(--primary-color);

color: white;

position: fixed;

height: 100vh;

}

**Penjelasan**:

* Sidebar tetap di sisi kiri (fixed), tinggi penuh.
* Warna utama --primary-color, teks putih.

.logo {

font-size: 1.8rem;

font-weight: 700;

margin-bottom: 3rem;

}

**Penjelasan**:

* Logo teks besar "TOEL.id".

.menu a {

display: flex;

align-items: center;

padding: 1rem;

border-radius: 10px;

transition: 0.3s;

}

**Penjelasan**:

* Menu navigasi interaktif.
* Jika aktif atau di-hover, warna latar berubah transparan.

.logout-btn {

background: #ff4757;

}

.logout-btn:hover {

background: #ff6b81;

}

**Penjelasan**:

* Tombol logout dengan warna merah menyala.

1. **Konten Utama**

.main-content {

margin-left: 250px;

padding: 2rem;

}

**Penjelasan**:

* Isi halaman bergeser ke kanan untuk menyesuaikan sidebar.

1. **Statistik Ringkas**

.stats-container {

display: grid;

grid-template-columns: repeat(3, 1fr);

gap: 1.5rem;

}

**Penjelasan**:

* Tiga kolom: Total Tes, Skor Tertinggi, Rata-Rata Skor.

.stat-box {

background: white;

padding: 1.5rem;

border-radius: 10px;

text-align: center;

}

.stat-value {

font-size: 2.5rem;

color: var(--primary-color);

}

**Penjelasan**:

* Tampilan elegan dengan angka besar dan warna utama.

1. **Filter Tes**

.filter-container {

display: flex;

gap: 1rem;

margin-bottom: 2rem;

}

.filter-select {

padding: 0.5rem;

border: 1px solid #ddd;

border-radius: 4px;

}

**Penjelasan**:

* Filter untuk mode (ujian/latihan) dan tipe tes (Listening, Structure, dll).
* Responsive dan mudah diakses.

1. **Tabel Riwayat Tes**

.table-responsive {

background: white;

border-radius: 10px;

overflow-x: auto;

}

.history-table {

width: 100%;

border-collapse: collapse;

}

.history-table th, td {

padding: 1rem;

border-bottom: 1px solid #eee;

}

**Penjelasan**:

* Tabel rapi dan responsif, dengan batas bawah antar baris.
* Warna latar kepala kolom abu terang.

1. **Badge Status Tes**

.badge {

padding: 0.25rem 0.75rem;

border-radius: 50px;

font-size: 0.875rem;

font-weight: 500;

}

.badge-ujian { background: var(--primary-color); color: white; }

.badge-latihan { background: #4caf50; color: white; }

.badge-full { background: #9c27b0; color: white; }

.badge-belum-lulus { background: #f44336; color: white; }

.badge-lulus { background: #4caf50; color: white; }

**Penjelasan Warna Badge**:

|  |  |
| --- | --- |
| **Class** | **Warna & Fungsi** |
| .badge-ujian | Biru → mode ujian |
| .badge-latihan | Hijau → mode latihan |
| .badge-full | Ungu → tipe TOEFL lengkap |
| .badge-lulus | Hijau → status lulus |
| .badge-belum-lulus | Merah → belum lulus |

1. **Tombol Aksi (Cetak / Hapus)**

.btn-action {

padding: 0.4rem 0.8rem;

border-radius: 4px;

}

.btn-cetak { background: var(--primary-color); }

.btn-delete { background: #f44336; } **Penjelasan**:

* Tombol kecil di tiap baris tabel: cetak sertifikat atau hapus hasil.

1. **Tombol Reset Semua Data**

.btn-danger {

background: #ff4757;

color: white;

border: none;

padding: 0.5rem 1rem;

border-radius: 4px;

cursor: pointer;

}

**Penjelasan**:

* Tombol merah terang, ditempatkan dekat filter.

1. **Sertifikat & Modal**

.modal {

position: fixed;

background: rgba(0, 0, 0, 0.5);

z-index: 1000;

display: flex;

justify-content: center;

}

.modal-content {

background: white;

padding: 20px;

width: 1000px;

}

**Penjelasan**:

* Modal muncul ketika user klik tombol "Lihat Sertifikat".

.certificate {

width: 210mm; height: 297mm;

padding: 10px;

border: 2px solid #2471f3;

}

**Penjelasan**:

* Ukuran A4 (untuk keperluan cetak).
* Tampilan elegan: judul besar, nilai tengah, status lulus/tidak.

1. **Mode Cetak (@media print)**

@media print {

body \* { visibility: hidden; }

.certificate, .certificate \* { visibility: visible; }

.btn-cetak { display: none; }

}

**Penjelasan**:

* Saat dicetak:
  + Hanya elemen .certificate yang ditampilkan.
  + Tombol cetak dan elemen lain disembunyikan.
  + Format sesuai ukuran A4 (tanpa margin).

1. **Responsif Mobile**

@media (max-width: 768px) {

.sidebar { transform: translateX(-100%); }

.sidebar.active { transform: translateX(0); }

.main-content { margin-left: 0; }

}

**Penjelasan**:

* Sidebar tersembunyi di layar kecil.
* Layout konten jadi satu kolom.
* Filter select & statistik lebih fleksibel.
* **Code Program JavaScript**

|  |
| --- |
| // Check authentication  document.addEventListener('DOMContentLoaded', function() {  if (!localStorage.getItem('isLoggedIn')) {  window.location.href = '/auth/login';  return;  }    displayHistory();    // Setup event listeners  const modeFilter = document.getElementById('modeFilter');  const typeFilter = document.getElementById('typeFilter');  const resetAllBtn = document.getElementById('resetAllBtn');    if (modeFilter) modeFilter.addEventListener('change', displayHistory);  if (typeFilter) typeFilter.addEventListener('change', displayHistory);  if (resetAllBtn) resetAllBtn.addEventListener('click', resetAllTestHistories);  });  function displayHistory() {  const historyTableBody = document.getElementById('historyTableBody');  const histories = JSON.parse(localStorage.getItem('toeflHistory') || '[]');  const modeFilter = document.getElementById('modeFilter').value;  const typeFilter = document.getElementById('typeFilter').value;    // Filter data  let filteredHistories = histories.filter(history => {  const modeMatch = modeFilter === 'all' || history.mode === modeFilter;  const typeMatch = typeFilter === 'all' || history.type === typeFilter;  return modeMatch && typeMatch;  });  // Update statistics  updateStats(histories);    // Clear table  historyTableBody.innerHTML = '';    // Show message if no data  if (filteredHistories.length === 0) {  historyTableBody.innerHTML = `  <tr>  <td colspan="9" class="text-center">Tidak ada data riwayat tes.</td>  </tr>`;  return;  }    // Display filtered data  filteredHistories.forEach((history, index) => {  const row = document.createElement('tr');    // Format date  const date = new Date(history.date).toLocaleDateString('id-ID', {  day: 'numeric',  month: 'long',  year: 'numeric'  });    // Create badges  const modeBadge = `<span class="badge badge-${history.mode === 'ujian' ? 'primary' : 'warning'}">${history.mode || 'Latihan'}</span>`;  const typeBadge = `<span class="badge badge-${history.type === 'Full' ? 'success' : 'info'}">${history.type}</span>`;  const statusBadge = history.status ?  `<span class="badge badge-${history.status.includes('Lulus') ? 'success' : 'danger'}">${history.status}</span>` :  '-';    row.innerHTML = `  <td>${date}</td>  <td>${modeBadge}</td>  <td>${typeBadge}</td>  <td>${history.skorL || '-'}</td>  <td>${history.skorS || '-'}</td>  <td>${history.skorR || '-'}</td>  <td>${history.skorITP || '-'}</td>  <td>${statusBadge}</td>  <td>  <button class="btn-action btn-view" onclick="viewCertificate('${index}')" title="Lihat Sertifikat">  <i class="fas fa-certificate"></i>  </button>  <button class="btn-action btn-delete" onclick="deleteTestHistory('${index}')" title="Hapus">  <i class="fas fa-trash"></i>  </button>  </td>  `;    historyTableBody.appendChild(row);  });  }  function updateStats(histories) {  // Update total tests  const totalTests = histories.length;  document.getElementById('totalTests').textContent = totalTests;    // Get full test scores only  const fullTests = histories.filter(h => h.type === 'Full');    // Calculate highest score  const highestScore = fullTests.length > 0  ? Math.max(...fullTests.map(h => h.skorITP || 0))  : 0;  document.getElementById('highestScore').textContent = highestScore;    // Calculate average score  const avgScore = fullTests.length > 0  ? Math.round(fullTests.reduce((sum, h) => sum + (h.skorITP || 0), 0) / fullTests.length)  : 0;  document.getElementById('averageScore').textContent = avgScore;  }  function deleteTestHistory(index) {  if (!confirm('Anda yakin ingin menghapus riwayat tes ini?')) {  return;  }    let histories = JSON.parse(localStorage.getItem('toeflHistory') || '[]');  histories.splice(index, 1);  localStorage.setItem('toeflHistory', JSON.stringify(histories));    displayHistory();  }  function resetAllTestHistories() {  if (!confirm('PERHATIAN: Semua data riwayat tes akan dihapus. Lanjutkan?')) {  return;  }    if (!confirm('Anda yakin? Tindakan ini tidak dapat dibatalkan.')) {  return;  }    localStorage.removeItem('toeflHistory');  displayHistory();  }  function viewCertificate(index) {  const histories = JSON.parse(localStorage.getItem('toeflHistory') || '[]');  const history = histories[index];    if (!history) {  alert('Data tidak ditemukan');  return;  }    const modal = document.getElementById('certificateModal');  const content = document.getElementById('certificateContent');    // Format date  const testDate = new Date(history.date).toLocaleDateString('id-ID', {  day: 'numeric',  month: 'long',  year: 'numeric'  });  // Get status  let status = '';  if (history.type === 'Full') {  const skorITP = history.skorITP || 0;  if (skorITP >= 500) {  status = 'Lulus';  } else if (skorITP >= 450) {  status = 'Lulus (Minimal)';  } else {  status = 'Belum Lulus';  }  }  const statusClass = status.includes('Lulus') ? 'status-lulus' : 'status-tidak';    content.innerHTML = `  <div class="certificate">  <div class="certificate-header">  <h1 class="certificate-title">Sertifikat TOEFL ${history.type}</h1>  <div class="certificate-subtitle">TOEL.ID - Platform Simulasi TOEFL Terpercaya</div>  </div>  <div class="certificate-content">  <div style="margin-bottom: 30px; font-size: 20px;">  Tanggal Tes: ${testDate}  </div>  <div class="certificate-score">  ${history.skorITP || history.skor || '-'}  </div>  ${history.type === 'Full' ? `  <div class="certificate-details">  Perincian Skor:<br>  Listening Comprehension: ${history.skorL}<br>  Structure and Written Expression: ${history.skorS}<br>  Reading Comprehension: ${history.skorR}  </div>  <div class="certificate-status">  Status: <span class="${statusClass}">${status}</span>  </div>  ` : ''}  </div>  <div class="certificate-footer">  <p style="font-size: 18px; color: #2471f3; font-weight: bold;">TOEL.ID</p>  <p style="font-size: 16px; margin: 5px 0;">  Platform Pembelajaran dan Simulasi TOEFL Terbaik di Indonesia  </p>  <div class="certificate-validation">  Sertifikat ini diterbitkan sebagai hasil simulasi TOEFL di platform TOEL.ID.<br>  Skor ini mencerminkan kemampuan bahasa Inggris berdasarkan standar penilaian TOEFL ITP.  </div>  </div>  </div>  `;    modal.style.display = 'block';  }  function closeModal() {  const modal = document.getElementById('certificateModal');  modal.style.display = 'none';  }  function printCertificate() {  window.print();  }  // Close modal when clicking outside  window.onclick = function(event) {  const modal = document.getElementById('certificateModal');  if (event.target === modal) {  modal.style.display = 'none';  }  }; |

**Penjelasan Program**

1. **Autentikasi Login**

document.addEventListener('DOMContentLoaded', function() {

if (!localStorage.getItem('isLoggedIn')) {

window.location.href = '/auth/login';

return;

}

displayHistory();

// Setup event listeners

const modeFilter = document.getElementById('modeFilter');

const typeFilter = document.getElementById('typeFilter');

const resetAllBtn = document.getElementById('resetAllBtn');

if (modeFilter) modeFilter.addEventListener('change', displayHistory);

if (typeFilter) typeFilter.addEventListener('change', displayHistory);

if (resetAllBtn) resetAllBtn.addEventListener('click', resetAllTestHistories);

});

**Penjelasan**:

* Saat halaman selesai dimuat (DOMContentLoaded), dicek apakah user sudah login (isLoggedIn).
* Jika belum → redirect ke halaman login.

1. **Menampilkan Data Riwayat**

function displayHistory() {

const histories = JSON.parse(localStorage.getItem('toeflHistory') || '[]');

**Penjelasan**:

* Ambil semua data riwayat tes TOEFL dari localStorage → key: toeflHistory.

const modeFilter = document.getElementById('modeFilter').value;

const typeFilter = document.getElementById('typeFilter').value;

let filteredHistories = histories.filter(history => {

const modeMatch = modeFilter === 'all' || history.mode === modeFilter;

const typeMatch = typeFilter === 'all' || history.type === typeFilter;

return modeMatch && typeMatch;

});

**Penjelasan**:

* Filter berdasarkan pilihan dropdown:
* Mode: ujian, latihan, atau all
* Tipe: Full, Listening, dll

updateStats(histories);

**Penjelasan**:

* Mengisi total tes, skor tertinggi, dan skor rata-rata (hanya dari tipe **Full**).

filteredHistories.forEach((history, index) => {

const row = document.createElement('tr');

// Format date

const date = new Date(history.date).toLocaleDateString('id-ID', {

day: 'numeric',

month: 'long',

year: 'numeric'

});

// Create badges

const modeBadge = `<span class="badge badge-${history.mode === 'ujian' ? 'primary' : 'warning'}">${history.mode || 'Latihan'}</span>`;

const typeBadge = `<span class="badge badge-${history.type === 'Full' ? 'success' : 'info'}">${history.type}</span>`;

const statusBadge = history.status ?

`<span class="badge badge-${history.status.includes('Lulus') ? 'success' : 'danger'}">${history.status}</span>` :

'-';

row.innerHTML = `

<td>${date}</td>

<td>${modeBadge}</td>

<td>${typeBadge}</td>

<td>${history.skorL || '-'}</td>

<td>${history.skorS || '-'}</td>

<td>${history.skorR || '-'}</td>

<td>${history.skorITP || '-'}</td>

<td>${statusBadge}</td>

<td>

<button class="btn-action btn-view" onclick="viewCertificate('${index}')" title="Lihat Sertifikat">

<i class="fas fa-certificate"></i>

</button>

<button class="btn-action btn-delete" onclick="deleteTestHistory('${index}')" title="Hapus">

<i class="fas fa-trash"></i>

</button>

</td>

`;

historyTableBody.appendChild(row);

});

}

**Penjelasan**:

Setiap riwayat ditampilkan sebagai baris tabel:

* **Tanggal**: Diubah jadi format Indonesia (toLocaleDateString)
* **Mode**: Lencana (badge-ujian atau badge-latihan)
* **Tipe**: Lencana Full, Listening, dll
* **Skor**: Listening, Structure, Reading, Total
* **Status**: Lulus / Belum
* **Aksi**: Tombol lihat sertifikat & hapus

1. **Fungsi Statistik: updateStats(histories)**

function updateStats(histories) {

// Update total tests

const totalTests = histories.length;

document.getElementById('totalTests').textContent = totalTests;

// Get full test scores only

const fullTests = histories.filter(h => h.type === 'Full');

// Calculate highest score

const highestScore = fullTests.length > 0

? Math.max(...fullTests.map(h => h.skorITP || 0))

: 0;

document.getElementById('highestScore').textContent = highestScore;

// Calculate average score

const avgScore = fullTests.length > 0

? Math.round(fullTests.reduce((sum, h) => sum + (h.skorITP || 0), 0) / fullTests.length)

: 0;

document.getElementById('averageScore').textContent = avgScore;

}

**Penjelasan**:

* **Total Tes**: Panjang array histories
* **Skor Tertinggi**: dari skorITP semua tes bertipe Full
* **Rata-Rata Skor**: rerata dari skorITP tipe Full

Semua data ditampilkan di 3 kotak statistik atas halaman.

1. **Hapus Satu atau Semua Tes**

function deleteTestHistory(index) {

if (!confirm('Anda yakin ingin menghapus riwayat tes ini?')) {

return;

}

let histories = JSON.parse(localStorage.getItem('toeflHistory') || '[]');

histories.splice(index, 1);

localStorage.setItem('toeflHistory', JSON.stringify(histories));

displayHistory();

}

**Penjelasan**:

* Hapus 1 item berdasarkan index.
* Konfirmasi dahulu melalui confirm().

function resetAllTestHistories() {

if (!confirm('PERHATIAN: Semua data riwayat tes akan dihapus. Lanjutkan?')) {

return;

}

if (!confirm('Anda yakin? Tindakan ini tidak dapat dibatalkan.')) {

return;

}

localStorage.removeItem('toeflHistory');

displayHistory();

}

**Penjelasan**:

* Hapus semua riwayat tes.
* Menggunakan **double confirm** (2 kali confirm()).

1. **Tampilkan Sertifikat: viewCertificate(index)**

const history = histories[index]; **Penjelasan**:

* Ambil 1 data tes berdasarkan index dari localStorage.

content.innerHTML = `

<div class="certificate">

...

</div>

`;

**Penjelasan**:

* Judul, skor, rincian per bagian.
* Hanya ditampilkan jika tipe Full.
* Skor ditampilkan besar di tengah (.certificate-score).

if (skorITP >= 500) => Lulus

else if (>= 450) => Lulus (Minimal)

else => Belum Lulus

**Penjelasan**:

* Digunakan juga untuk memberi warna badge: status-lulus atau status-tidak.

1. **Cetak Sertifikat**

function printCertificate() {

window.print();

}

**Penjelasan**:

* Membuka dialog **Print** bawaan browser.
* CSS sudah diatur (@media print) agar hanya elemen .certificate yang dicetak.

1. **Modal Close dan Klik Luar**

function closeModal() {

const modal = document.getElementById('certificateModal');

modal.style.display = 'none';

}

window.onclick = function(event) {

const modal = document.getElementById('certificateModal');

if (event.target === modal) {

modal.style.display = 'none';

}

};

**Penjelasan**:

* Modal bisa ditutup:
* dengan klik tombol ×
* atau klik di area luar modal

1. **Event Listener Dropdown & Reset**

modeFilter.addEventListener('change', displayHistory);

typeFilter.addEventListener('change', displayHistory);

resetAllBtn.addEventListener('click', resetAllTestHistories);

**Penjelasan**:

* Setiap kali user ganti filter, tabel akan **otomatis terupdate**.

## **Hasil Running Riwayat Tes**

# **Bahasa Pemograman & Repository**

## **Bahasa dan Teknologi yang Digunakan**

Pengembangan website simulasi TOEFL ini menggunakan berbagai teknologi web modern untuk mendukung performa, skalabilitas, dan kemudahan dalam pengembangan. Berikut adalah bahasa pemrograman dan teknologi utama yang digunakan:

* **HTML5 (HyperText Markup Language)**

Digunakan sebagai kerangka dasar dalam membangun struktur halaman web. HTML memungkinkan penyusunan elemen-elemen seperti teks, gambar, form, serta navigasi antar halaman.

* **CSS3 (Cascading Style Sheets)**

Digunakan untuk mengatur tata letak (layout), warna, tipografi, dan tampilan visual halaman web agar menarik dan responsif di berbagai perangkat.

* **JavaScript (JS)**

Bahasa pemrograman utama yang digunakan untuk menambahkan fungsionalitas interaktif, seperti validasi formulir, manipulasi DOM, dan pemrosesan data dinamis pada sisi klien (frontend).

* **Node.js**  
   Merupakan runtime environment berbasis JavaScript yang berjalan di sisi server (backend). Node.js digunakan untuk menangani permintaan HTTP, pengolahan data, serta komunikasi antara server dan klien secara efisien dan non-blocking.

## **Repositori Kode Sumber Github**

Untuk mempermudah pengelolaan proyek, dokumentasi, serta kolaborasi, seluruh kode sumber proyek ini dikelola melalui platform GitHub. Repositori ini juga memuat panduan instalasi, penggunaan, serta dokumentasi teknis tambahan.

**Tautan Repositori GitHub:**  
<https://github.com/ZekkCode/OnlineTest-TOEFL_DPW>