

Bandile Mabele ST10487923 GR03

Introduction to Web Development WEDE5020

Table of Contents

Bandile Mabele ST10487923 GR03 1

Introduction to Web Development WEDE5020 1

Project Proposal: Redesign & Improvement of the Department of Home Affairs Website3

 Organisation Overview 3

 Vision..... 3

 Mission 3

 Target Audience 3

Website Goals and Objectives 3

Current Website Analysis 3

 Weaknesses 3

 Strengths..... 4

Proposed Website Features and Functionality 4

Design and User Experience 4

 Colour Scheme..... 4

 Typography 4

 Layout and design 4

 Wireframes 5

Technical Requirements..... 7

Timeline and Milestones 7

 Part 1(27 August 2025)..... 7

 Part 2 (26 September 2025)..... 7

 Part 3 (October) 7

Budget..... 7

Reference List 8

Project Proposal: Redesign & Improvement of the Department of Home Affairs Website

Organisation Overview

The Department of Home Affairs was established during the early years of South Africa existing throughout the Apartheid period changing names multiple time until the mid-20th century where it was widely known as the Department of Home Affairs (DHA) to the current Republic of South Africa.

Vision

The vision of the DHA is a South Africa where identity, status and citizenship are key enablers of citizen empowerment and inclusivity, economic development and national security.

Mission

The DHA carries out its mission in line with its commitment to citizen empowerment and inclusivity, economic development and national security, by:

- Being an efficient and secure custodian of citizenship and civil registration.
- Securely and strategically managing international migration.
- Efficiently managing asylum seekers and refugees.
- Efficiently determining and safeguarding the official identity and status of persons.

Target Audience

The citizens of South Africa, as well as foreigners who wish to visit, work or stay in South Africa. Essentially providing accessible civic, immigration, and refugee services to the public of South Africa.

Website Goals and Objectives

The goal of the website is to provide a secure and modern gateway to the services managed by the DHA so essentially it is to provide valuable information to the public. The objective was to basically reduce the need for citizens to physically go to their offices.

Current Website Analysis

Weaknesses

1. Homepage is text-heavy, basically a lot of text against a white space
2. Poor mobile experience for booking and applications.
3. Outdated look — small fonts, inconsistent random colours, crowded layouts (very blocky).
4. There are no clear points of focus for a person going through the website.
5. Not screen-reader friendly poor heading structure.

Strengths

1. Though hard to navigate everything you could need from the DHA can be found on the website.
2. It is an instrumental tool in digitizing the processes of the DHA.

Proposed Website Features and Functionality

- Though they have a contacts page the office contacts for all the provinces can be found on the homepage, so I propose a more centralized contact point.
- Information about their ministers will be on their about us page instead of the home page.
- Include white space for improved readability as everything feels too cramped.

Design and User Experience

The overall design will focus on a sleek modern design with focus on simplicity and functionality matching modern day web browsing design.

Colour Scheme

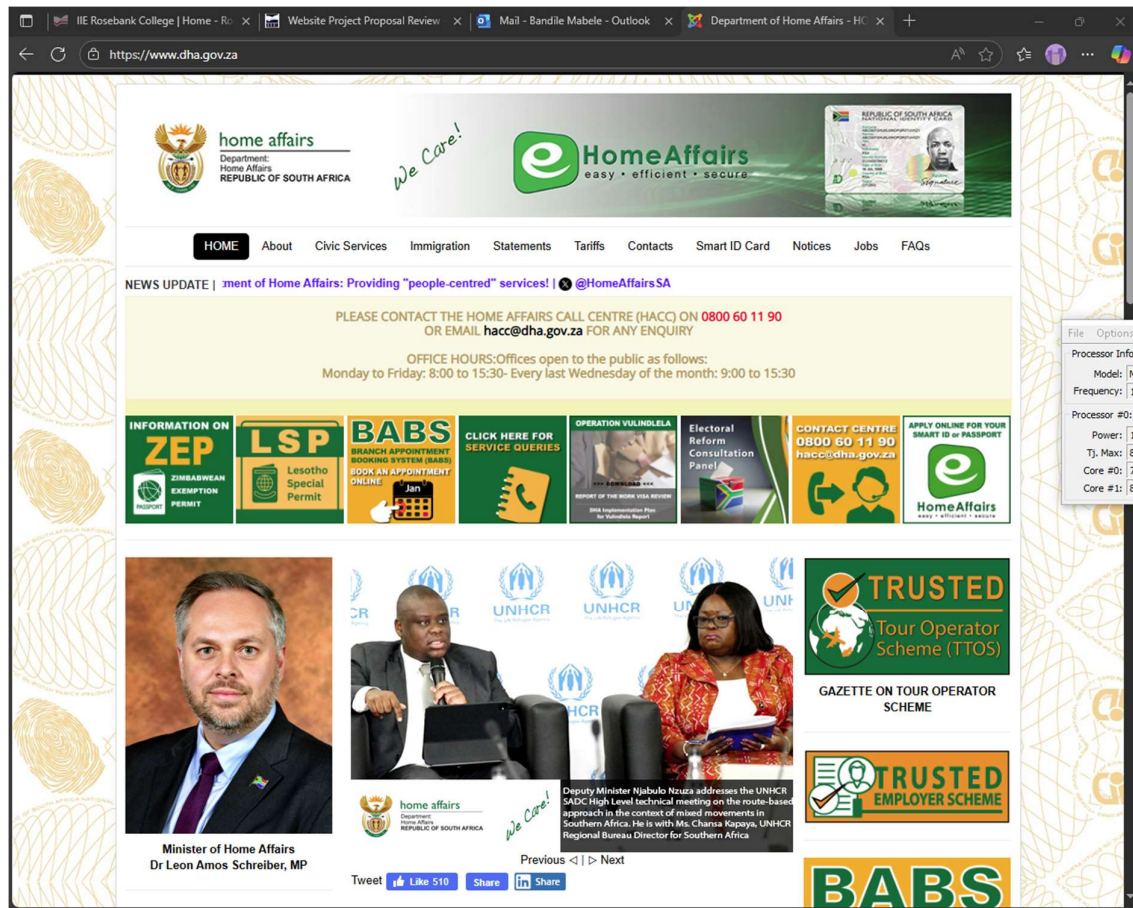
I will focus on the departments colours which will be the signature green, white, yellow, and beige to enhance the overall pleasantness to the eye.

Typography

The website will be utilizing one of the best globally excepted and widely used font in web design which is Helvetica. It is known for its clean, modern, and highly readable design.

Layout and design

A website with a proper grid-based design that ensures clear distinction between different areas of the website with proper utilisation of white space. The page will utilise the whole screen instead of being a segmented section as seen on this screen shot:



Wireframes

Here are examples of the wireframes I will be taking into consideration when designing the website:

EFFICIENT SERVICE DELIVERY FOR CITIZENS

Providing secure and accessible civic, immigration,
and refugee services to the public.

LEARN MORE

Search services, forms...



ID DOCUMENTS

Application and
renewal of Identity
documents



PASSPORTS

Information on
applying for and
renewing passports



MARRIAGE SERVICES

Registration of
marriages and civil
partnerships



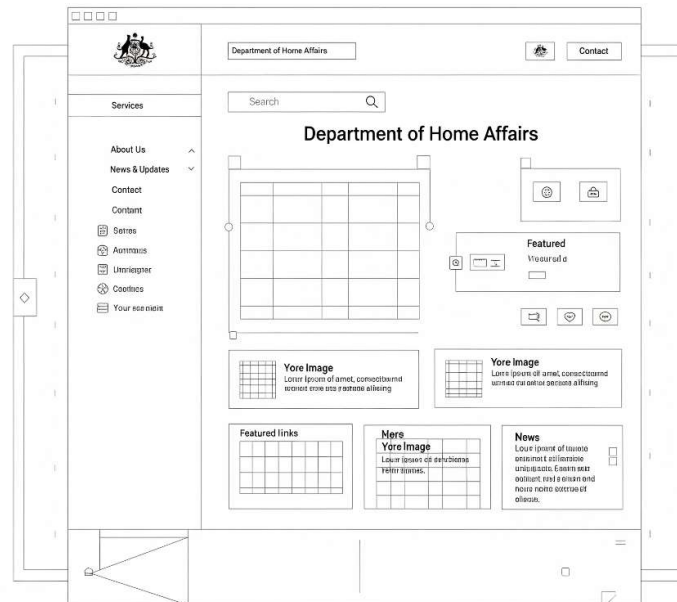
IMMIGRATION

Visas, permits,
and residency
applications

NEWS

RESOURCES

FAQ



Technical Requirements

This will be a government website so there will be high traffic the website needs to have high availability and be scalable. It will be cloud hosted so it will be using Amazon Web Services. The website already has a domain name. I will be using HTML5, CSS3, and JavaScript.

Timeline and Milestones

Part 1(27 August 2025)

By this point the website have the basic HTML structure with the header, navigation, main content, and a footer. A well-organised file and folder structure to manage my project efficiently.

Part 2 (26 September 2025)

At this point I will use CSS to deck out the layout, typography, and colour scheme. I will be ensuring that the website adapts seamlessly to different screen sizes and devices and lastly, I will improve readability, navigation, and accessibility.

Part 3 (October)

This will be the last phase of the project here I will implement JavaScript by adding dynamic elements like animation, and interactive forms. I will optimize for Search Engine Optimization and implement the best practices of such. There will be forms with client-side validation.

Budget

These estimations were made with the help of AI

1. Initial Development Costs (One-Time)

Item	Estimated Cost (ZAR)	Notes
UI/UX Design	R300,000 – R800,000	Research, mock-ups, prototypes, accessibility compliance
Frontend Development	R500,000 – R1,200,000	React/Vue + responsive design
Backend Development	R800,000 – R2,000,000	API, database, security, integrations with government systems
Database Setup	R150,000 – R400,000	PostgreSQL/MySQL cluster with replication
Security Implementation	R200,000 – R600,000	SSL, firewalls, encryption, penetration testing

Item	Estimated Cost (ZAR)	Notes
Testing & QA	R150,000 – R400,000	Load testing, cross-browser testing, bug fixing
Project Management	R200,000 – R500,000	Coordination, sprints, documentation
Training & Documentation	R100,000 – R250,000	Staff training, manuals
Subtotal (Development Phase): R2.4 million – R6.15 million		

2. Hosting & Infrastructure (Annual)

Item	Annual Cost (ZAR)	Notes
Cloud Hosting (AWS/Azure/GCP)	R400,000 – R1,200,000	High-availability, multiple regions
Content Delivery Network (CDN)	R50,000 – R150,000	Cloudflare/AWS CloudFront
Domain Management (.gov.za)	R5,000 – R10,000	Managed by SITA
Daily Backups	R30,000 – R100,000	Secure offsite backups
DDoS Protection & Security Monitoring	R100,000 – R300,000	24/7 monitoring
Support & Maintenance	R300,000 – R800,000	Bug fixes, updates, server monitoring

Reference List

Twin, A., 2025. KPIs: What Are Key Performance Indicators? Types and Examples, [Online] 15 June. Available at: < <https://www.investopedia.com/terms/k/kpi.asp> > [Accessed on 4 August 2025].

Department of Home Affairs. 2025. About. [Online] Available at: <<https://www.dha.gov.za/index.php/about-us> > [Accessed on 4 August 2025].

Jovicic, A.B., 2024. How to Improve Website Traffic: Ways to Increase Visits. Semrush Blog, [blog] 21 November. Available at < [How to Improve Website Traffic: Ways to Increase Visits](#) > [Accessed on 4 August 2025].