



TECHNICAL UNIVERSITY OF MOMBASA

REAL ESTATE CONSULTANT WEBSITE FOR SAB HOMES LTD

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SUPERVISOR

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**A RESEARCH PROJECT SUBMITTED TO THE DEPARTMENT OF
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HEALTH SCIENCES IN PARTIAL FULFILLMENT OF THE
REQUIREMENT FOR THE BACHELOR'S DEGREE IN
MATHEMATICS AND COMPUTER SCIENCE AT TECHNICAL
UNIVERSITY OF MOMBASA**

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DECLARATION

I declare that this project is my original work and has never been presented for any award in any other institution.

Student

Name:

Reg:

Signature:

Date:

This proposal has been submitted for examination with my approval as the university supervisor

Supervisor

Name:

Signature:

Date:

DEDICATION

This work is heartily dedicated to the Almighty God who is the most knowledgeable.

ACKNOWLEDGMENT

I wish to acknowledge my supervisor Dr. Kennedy Hadullo for his guidance, support and time that he put in this project.

ABSTRACT

The goal of the real estate consultant website project is to develop a professional, comprehensive online platform that offers knowledgeable advice, trustworthy data, and effective channels for client and real estate industry connection. The website tackles issues that investors encounter, such as a lack of professional advice, inaccurate information, restricted access to real estate listings, and poor contact methods. The website aims to arm customers with the essential tools and resources to make informed decisions by implementing important elements including individualized advisory services, thorough property search functionality, a powerful property database, and secure communication options. The website attempts to improve user experience, and this project uses a combination of descriptive and exploratory research design to bridge the gap between real estate agents and clients.

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LIST OF ACRONYMS AND ABBREVIATIONS

HTML	Hypertext Markup Language
CSS	Cascading Style Sheet
LTD	Limited
SQL	Structured Query Language

DEFINITION OF KEY TERMS

Portfolio -collection of real estate investments assets that contains past present details.

Deploy -the process of making a system available for use

Sprint -cycles

1.0 CHAPTER ONE: INTRODUCTION

1.1 Introduction

In the current digital era, it is essential for businesses to have a strong online presence if they want to succeed and draw in new clients. For SAB HOMES LTD, the goal of this project is to develop a real estate consultant website that will increase their online visibility, reputation, and professionalism. The website will act as a platform for showcasing the business services, and accomplishments, making it simpler for customers to learn about and interact with SAB HOMES LTD.

1.2 Background Information

An online presence is essential for businesses to survive and efficiently contact potential customers in the quickly changing digital market. However, it was noted during the attachment period with SAB HOMES LTD that the company had issues with a lack of online availability. Lack of a dedicated website has made it difficult for real estate consultants to display their portfolio, inform potential customers of important information, and build credibility and professionalism in the field.

The real estate sector is one that is always expanding and is important to the global economy. When buying, selling, or investing in real estate holdings, a thorough awareness of market trends, regulatory requirements, and financial considerations is necessary.

By offering a thorough platform for obtaining real estate consulting services, my project real estate consultant website seeks to close the gap between industry specialists and clients by taking into account the needs for knowledgeable direction and trustworthy information.

1.3 Problem Statement

A respected real estate consulting company that offers its clients a wide range of services is SAB HOMES LTD. It was noted throughout the attachment period that the company had problems with a lack of digital advertising. Effective connection with prospective clients is hampered by the lack of a specific website for real estate consultation. Customers struggle to locate crucial firm information, such as contact information and past accomplishments, due to the absence of a reliable internet platform. By creating an accessible and informative website, this project aims to address these problems and improve the company's online profile.

1.4 Objectives of Study

1.4.1 General Objective

This project's goal is to create, build, and launch a website for real estate consultation for SAB HOMES LTD. The website will act as an educational tool that promotes effective client communication, displays the company's portfolio, and raises its overall online credibility.

1.4.2 Specific Objectives

The following are the project's specific goals:

1. Analyse the current Consultation processes and procedures employed by SAB HOMES LTD to obtain the requirements.
2. Design the Real Estate Website using the requirements obtained in Objective 1.
3. Thoroughly coding and testing the website using WordPress, HTML, CSS, and JavaScript. This ensures functionality, responsiveness, and compatibility with various devices and browsers.
4. Test the developed website with clients of SAB HOMES LTD in order to get feedback and make the required adjustments.

1.5 Justifications

For SAB HOMES LTD, the creation of a real estate consultant website is justified for a number of reasons:

1. A well-designed website will increase a company's online presence, making it simpler for prospective customers to locate and use SAB HOMES LTD's services.
2. A credible website gives customers more reason to trust a business by demonstrating its commitment to excellence and expertise.
3. Simplified Information Exchange where the website will serve as a central hub for the exchange of important data, contacts, and services, promoting effective communication.
4. Potential customers can better understand SAB HOMES LTD's skills and accomplishments by seeing the company's portfolio online.

1.6 Significance of the study

Future prospects for the initiative to create a real estate consultant website for SAB HOMES LTD are very promising. The website will serve as a potent marketing tool, boosting the business's credibility, professionalism, and visibility in the real estate industry by addressing the present issues with limited online availability. SAB HOMES LTD stands to gain from expanded client discovery, enhanced connection with prospective clients, and efficient portfolio presentation. A user-friendly portal would be available to prospective clients looking for real estate consultant services, enabling them to make well-informed decisions and communicate with the business with ease. The project has an influence beyond SAB HOMES LTD and could set a good example for other businesses in the real estate sector to embrace digitalization and enhance customer experiences. Additionally, the study's results will also benefit academic and research communities by revealing real estate-specific website development methods and digital marketing tactics. The real estate consultant website will ultimately enable SAB HOMES LTD to flourish in the fast-paced digital environment and cultivate long-term client relationships, establishing the business for future growth and success.

1.7 Limitations

Although the goal of this project is to construct a useful real estate consultant website, various restrictions may limit the project's scope and execution. As a result, the findings generalizability may be affected by the distinct features and market dynamics of the particular geographical area in which SAB HOMES LTD operates. The real estate market can vary greatly from place to region, and as a result, potential client's preferences and behaviours may also vary. Second, outside variables like alterations in the general status of the economy or changes in the competitive environment of the sector may have an impact on how effective the real estate consultant website is. Although the research team will make every effort to create a strong and well-executed project, some external factors may have an impact on the generalizability of the results to a broader real estate consultancy context.

CHAPTER TWO: LITERATURE REVIEW

2.1 Introduction

This chapter includes a thorough assessment of the literature with an emphasis on websites for real estate consultants, their importance in today's business environment, and their influence on enhancing customer engagement and overall business performance. An outline of the chapter's contents is given at the beginning. It then digs into the literature around websites for real estate consultants, stressing their function, essential components, and top development techniques. In order to learn from the achievements and difficulties of similar systems that have been used in the real estate sector, the chapter carefully investigates those systems. The path of the project will be determined by a comprehensive examination of the current literature that identifies research gaps. The chapter ends with an overview of the major discoveries and contributions made by the literature review.

2.2 Theoretical literature review

According to (Delcoure, Natalya and Norm G.Miller, 2022) the first real estate online platforms surfaced around 1999 when technology advanced and statistics proved that more than one million homes were sold by the owners themselves in the United States alone in 2000.

During the process of searching a property, 90% of home buyers searched online and the percentage of consumers searching real estate on google has increased by 253% over the last four years stated by (The National Association of Realtors, 2012). In the UK there is an increase from 0% to 5.5% of people using the internet to carry house sales within the last decade. Figures shows there will be a huge increase to a percentage of 50 by 2018 and will hit 70% by 2020, this is according to (The Spectator Australia, 2014-2022) and (Bloomberg.com, 2013)

The digital environment, real estate consultant websites are crucial for businesses like SAB HOMES LTD to build a strong online presence and attract a wider audience. In order to increase credibility and professionalism in the fiercely competitive real estate industry,

the literature repeatedly highlights the importance of having a professionally designed website. According to studies, a website that is both aesthetically beautiful and easy to use develops trust and has a beneficial influence on decision-making.

The project is designed using a mix of exploratory design and descriptive research design. Exploratory research will be carried out to explore and identify potential challenges, opportunities, and emerging trends in the real estate consultancy industry. Descriptive research is used to analyse current consultation procedures, obtain requirements, and understand the company's existing processes.

WordPress, HTML, CSS, and JavaScript are all combined on the website to ensure functionality, responsiveness, and compatibility with various browsers and devices. This also helps the website to detect and fix any potential problems.

Comprehensive property listings, contact information that is simple to find, great client testimonials, and mobile responsiveness are among the key characteristics mentioned in the literature.

2.3 System review

The literature examines real estate consultant websites and other comparable industry-used technologies as examples. Case studies of effective real estate consultancy websites offer useful information about their layout, features, and user interface.

2.3.1 Nairobi Homes

One such successful system is Nairobi Homes they are among the leading property management agency with an experience of more than 37 years. The company was established as Nairobi Homes Limited with operations in Nairobi and Mombasa. They are duly registered practicing land and estate agents ACT Cap 533 of laws of Kenya. They offer property management, letting, selling and consultancy services.

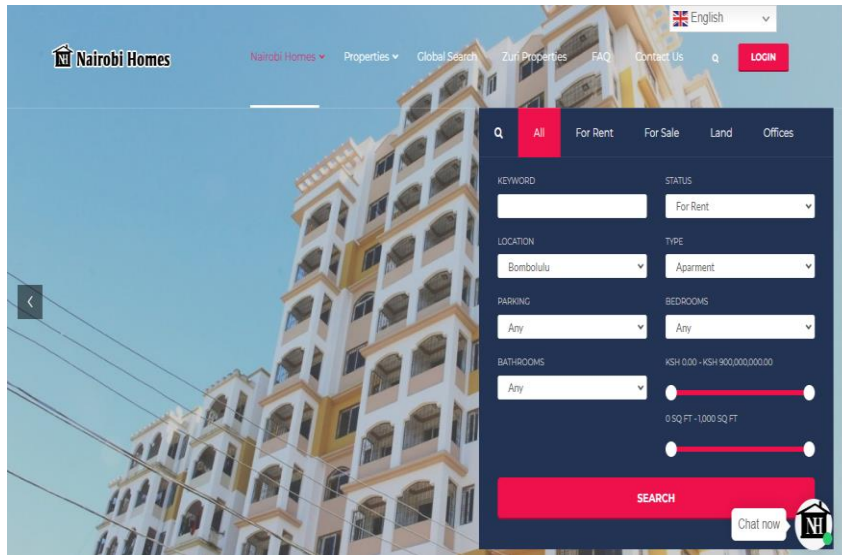


Figure 1 NAIROBI HOMES WEBSITE

2.3.2 KRUSS Properties

They offer property management services It is located on ground floor at Planet Complex, Mombasa-Malindi road. Their website is not detailed enough to show their services.

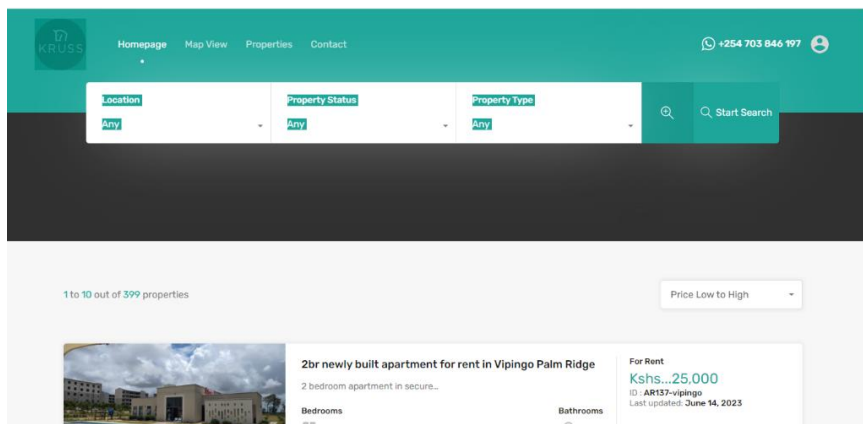


Figure 2 KRUSS PROPERTIES WEBSITE

2.3.3 Amor Homes

They provide services such as efficient rent collection, real estate management and maintenance, letting, selling, lease and buying properties, property development and general contractors, service charge, estate values and commission agents. They are located at Old Mld road, Nyali.

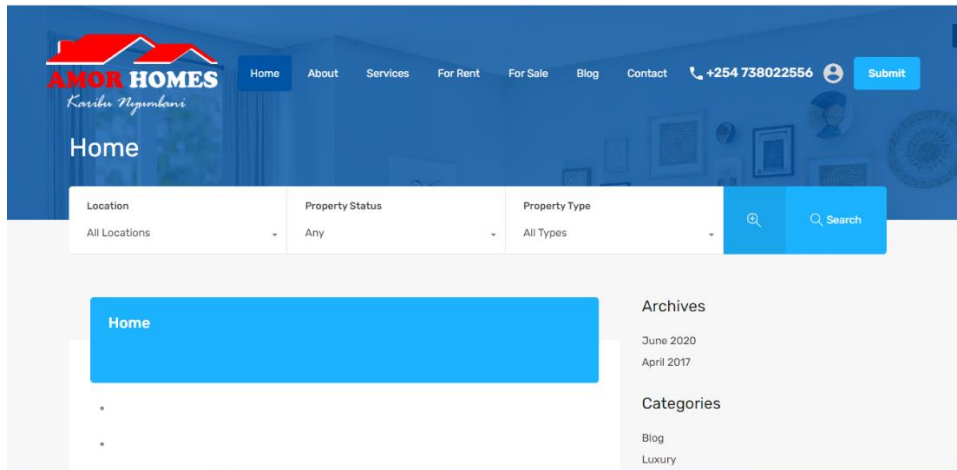


Figure 3 AMOR HOMES WEBSITE

2.4 Critical Review and Research Gap Identification:

There are still research holes that must be filled despite the wealth of content on real estate consultant websites. The majority of previous studies concentrate on generic real estate website development concerns, ignoring the significance of customizing websites to individual local markets and consumer preferences. This is just one of the crucial issues that has been highlighted. The majority of the aforementioned websites do not provide comprehensive information about their services, and they have few online forums, particularly when it comes to real estate consulting.

2.5 Chapter Summary:

This chapter presented a thorough assessment of the literature on real estate consultant websites, emphasizing their function in the digital era and their influence on client engagement and credibility. Using examples from effective real estate systems, key elements and recommended practices for website building were covered. In addition to the necessity for a localized market focus, investigation of client engagement measures, emphasis on customization, and integration of emerging technologies, the critical assessment revealed research gaps that will steer the project.

CHAPTER THREE: RESEARCH METHODOLOGY

3.1 Introduction:

This chapter outlines the research methodology employed in the development of the real estate consultant website for SAB HOMES LTD. It describes the research design chosen for the project and justifies its selection. The chapter also presents details about the target population, sample size, data collection procedures, and instruments used in the study. Additionally, the system development methodology is discussed, followed by a comprehensive analysis of system requirements using various modelling techniques.

3.2 Research Design:

Descriptive research design and exploratory design were combined to create the research design for this project. In order to gather needs, comprehend the organization's current processes, and analyse the current consulting practices at SAB HOMES LTD, descriptive research will be used. In order to further inform the design and development of the real estate consultant website, exploratory research will be done to examine and identify potential issues, opportunities, and emerging trends in the real estate consultation business.

3.2.1 Target Population:

The target population for this study includes 20 employees and management of SAB HOMES LTD, as well as potential clients seeking real estate consultancy services in the company's operational area.

3.2.2 Sample Size:

A random sampling technique was used to select a representative sample of employees and management from SAB HOMES LTD. Additionally, potential clients who have recently interacted with the company or have shown interest in their services were approached for feedback during the testing phase.

3.2.3 Data Collection Procedure & Instruments:

To learn more about their consulting processes and website requirements, SAB HOMES LTD management and staff participated in semi-structured interviews. Also potential customers were given questionnaires to determine their preferences, expectations, and pain areas when using real estate consultant services. To further understand the business's operations and issues, existing corporate records, marketing materials, and previous customer feedback were analyzed.

3.3 System Development Methodology:

The system development process was implemented using the Agile methodology. Agile allows for iterative and incremental development, allowing the team to respond to changing needs and deliver a viable product at the end of each iteration. This makes it ideal for web development projects. Meetings with stakeholders on a regular basis, persistent feedback collection, and ongoing improvements will all be part of the development process.

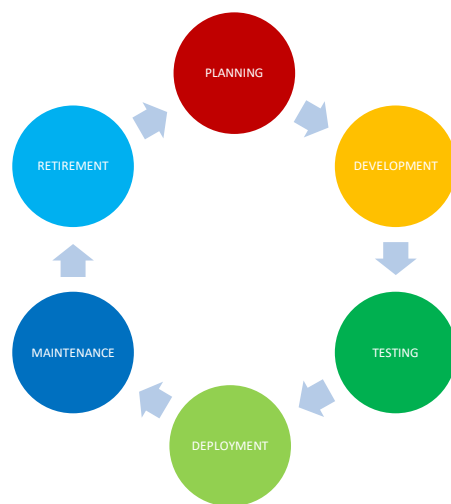


Figure 4 AGILE PHASES

Phases of Agile Methodology

a) Planning:

Hold a project start meeting with stakeholders from SAB HOMES LTD to specify the project's goals and specifications. Based on customer needs and organizational objectives, create a prioritized backlog of features and functionality. Set brief development cycles (sprints) and a schedule for each iteration in cooperation with the client.

b) Development:

The first sprint should begin with wire framing and website design. Work together with the client to complete the website's graphic design and user interface (UI). Move on to front-end and back-end development in succeeding sprints, employing HTML, CSS, JavaScript, and an appropriate content management system (CMS), such as WordPress. In each sprint, gradually add new elements to the website, such as property listings, contact forms, and search capabilities. Hold conferences to talk about progress.

c) Testing:

Run functional tests to ensure that all features are operational and adhere to the requirements. Conduct usability testing to evaluate the website's navigation and user-friendliness. Test your devices and browsers compatibility to ensure consistent presentation and functionality. To find and fix any bottlenecks, test the performance and load handling of the website. To find and fix potential weaknesses, do security testing.

d) Deployment:

Present the finished features to SAB HOMES LTD stakeholders in a sprint review meeting at the conclusion of each sprint. Gather feedback and make any required alterations before moving on to the next sprint.

Deploy each website increment to a staging environment after rigorous testing and customer approval for final verification. Deploy the website to the production environment once all increments have been verified.

e) Maintenance:

After the website becomes live, keep up the maintenance and support to fix any problems or difficulties that may have arisen. Review analytics data and user input frequently to spot areas that could use improvement. Depending on user demands and market trends, plan and carry out upcoming sprints to add new features or make changes.

f) Retirement:

Plan for the eventual retirement or migration to a newer platform as the website's technology ages or the needs of the organization change. If necessary, work with the customer to build a plan for transferring content and data to a new platform. Assure a seamless transition and little interference for users during the retirement process.

3.3.1 Methodology Justification:

In incremental stages, ensuring that each iteration adds value and meets the client's evolving requirements. The Agile approach allows for flexibility, continuous feedback, and customer collaboration, leading to a successful and user-focused website for SAB HOMES LTD.

The Agile methodology is chosen because it facilitates collaboration and communication between the development team and stakeholders. Given the dynamic nature of the real estate industry, Agile allows for flexibility in incorporating changes and ensures that the final product meets the evolving needs of SAB HOMES LTD and its clients.

3.4 System Requirement Analysis:

In this section, the system requirements for the real estate consultant website will be analysed using various modelling techniques.

3.4.1 Functional Requirements:

Functional requirements are the specific capabilities and features that the website possess. These include:

a) User Registration and Login: Allowing clients to register accounts and log in to access personalized services.

- b) **Property Listings:** Providing a well-organized listing of available properties with comprehensive details.
- c) **Contact Form:** Enabling clients to submit inquiries and contact the company easily.
- d) **Consultancy:** Enabling clients to book their consultation through email.

3.4.2 Non-Functional Requirements:

Non-functional requirements define the qualities and constraints the website adheres to. These may include:

- a) **Performance:** Ensuring the website loads quickly and performs well.
- b) **Security:** Implementing secure data handling and safeguarding user information.
- c) **Responsiveness:** Ensuring the website adapts to different screen sizes and devices.
- d) **Availability:** The website is available anywhere at any time provided there is internet connectivity.
- e) **User –friendly:** The website has a user –friendly interface that conforms to the principle of Human Computer Interaction.

3.4.3 Unified Modelling Language (UML):

Unified Modelling language is a standardized modelling language consisting of integrated diagrams, which is used for specifying, visualizing, constructing and documenting the artefacts of software systems.

3.4.3.1 Use Case Modelling:

Use case diagrams is a graphic depiction used to illustrate the interactions between users and the website, depicting various scenarios and functionalities.

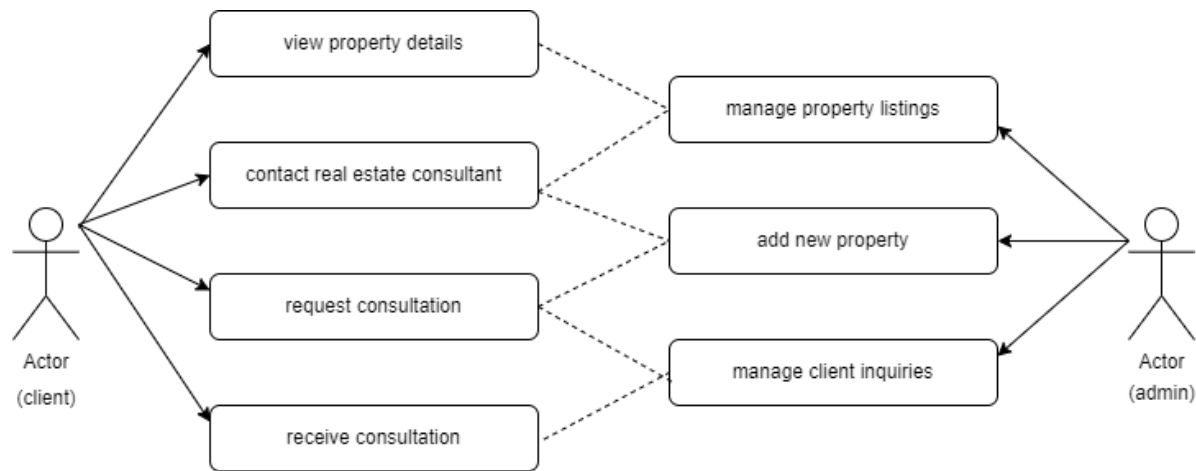


Figure 5 USE CASE MODELLING

3.4.3.2 Activity Diagram:

Activity diagram is used represent the flow of activities and processes involved in website navigation and functionalities.

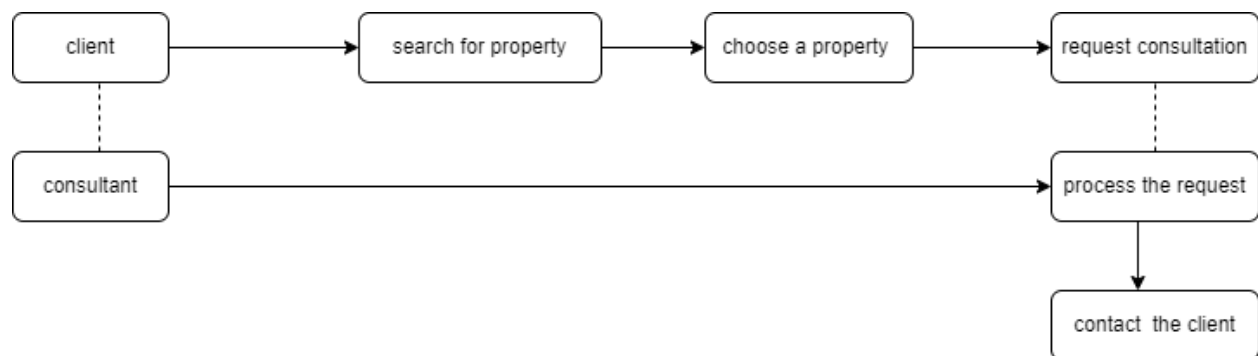


Figure 6 ACTIVITY DIAGRAM

3.4.3.3 Class Diagram:

Class diagrams is used to present the static structure of the website, including entities like users, properties, and contact information.

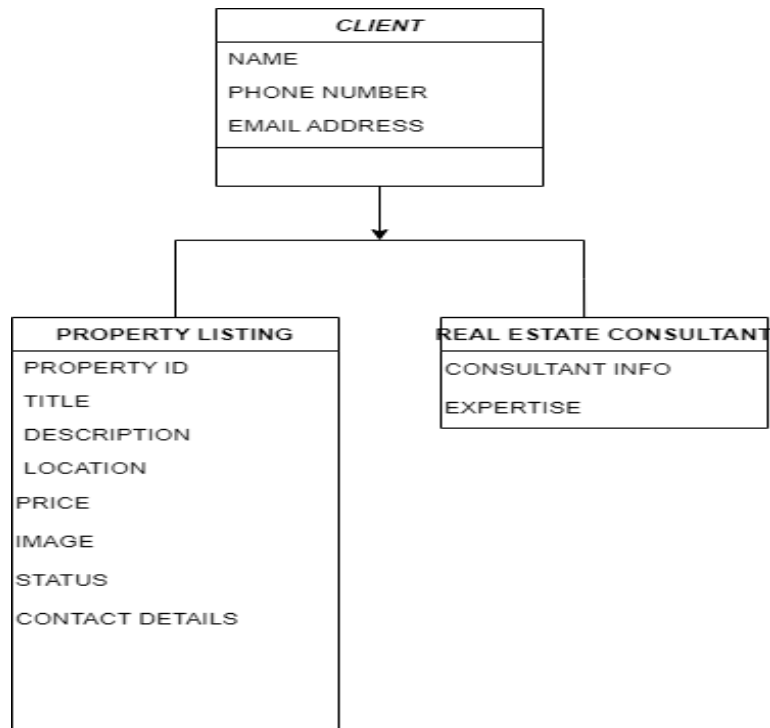


Figure 7 CLASS DIAGRAM

3.4.3.4 Sequence diagram

A sequence diagram is used to visualize the interactions between object in a system over time.

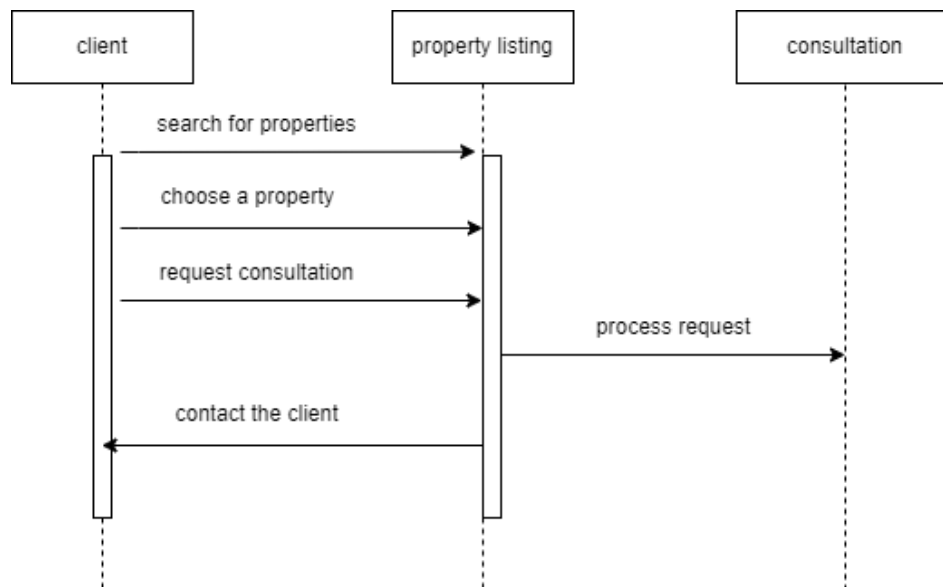


Figure 8 SEQUENCE DIAGRAM

3.4.3.5 Deployment Diagram

A deployment diagram represents the physical deployment of software components and the hardware infrastructure on which the software runs. It shows the relationships between software artefacts, hardware nodes, and the communication paths between them.

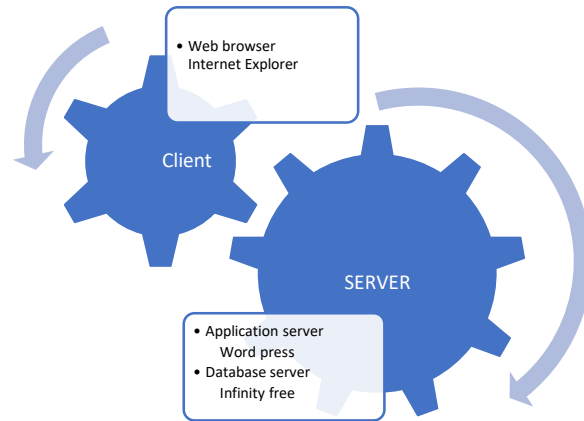


Figure 9 DEPLOYMENT DIAGRAM

3.4.3.6 Entity relationship diagram

An entity relationship diagram is a graphical representation that depicts relationship between entities i.e items, people objects and events.

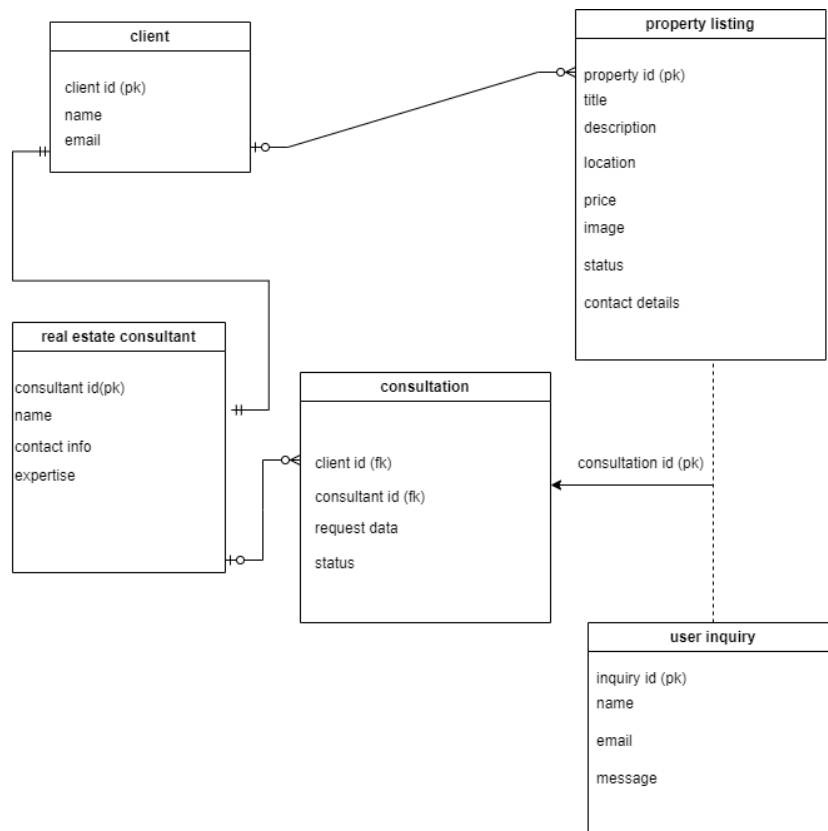


Figure 10 ENTITY RELATIONSHIP DIAGRAM

3.5 Testing Design

Testing involves evaluating the website's functionality, performance, and usability to identify and fix any defects or issues before it is deployed to the public. The testing phase ensures that the website meets its objectives, works as intended, and provides a smooth user experience.

3.5.1 Test Cases

Functional Test Cases:

- Ensure that the user is directed to the homepage when they click the "Home" button in the navigation bar.
- Verify that user enquiries are properly sent to the correct email address by using the "Contact Us" form.

- c) Verify that when you click on a property listing, a new page appears with more information about the property.
- d) Check that the search tool effectively separates properties according to geography and price range.

Usability Test Cases:

- a) Examine the website's design and navigation to make sure it is simple for new users to understand.
- b) Confirm that any necessary actions, such as getting in touch with a real estate adviser or looking for properties, are simple to access.
- c) Check the website's content for readability and clarity to make sure users can understand the information provided.

Compatibility Test Cases:

- a) Check the website's functioning and display across various web browsers (Chrome, Firefox, Safari, and Edge).
- b) Examine how well the website responds on different platforms, such as desktops, laptops, tablets, and smartphones.

Performance Test Cases:

- a) Check the website's performance by measuring how long it takes to load on various internet connections and devices.
- b) Create a high user volume simulation to test how the website responds to high load scenarios without noticeably degrading its performance.

Security Test Cases:

- a) Scan the website for security flaws like SQL injection, cross-site scripting (XSS), and other possible weaknesses.
- b) Confirm that sensitive data and user information are transmitted safely and with encryption over the internet.

3.7 Chapter Summary

This chapter concluded by outlining the research strategy for creating the SAB HOMES LTD. real estate consultant website. It provided details about the target audience, sample size, and data gathering techniques for the study. Given that the Agile development technique can be adjusted to the dynamic character of the real estate market, the decision to use it was justified. To ensure a thorough comprehension of the website's functionalities and design, the chapter also presented the system requirements analysis using UML diagrams. This research approach provides a strong framework for carrying out the suggested study successfully.

CHAPTER FOUR: RESEARCH FINDINGS AND DISCUSSION

4.1 Introduction

The research findings that were discovered while creating and assessing the website for a real estate consultant are presented in this chapter. The study's main goals were to create a user-friendly website that meets the needs of real estate clients and to make sure it complies with accepted web design and user experience guidelines. We will examine the research findings associated with each of the stated objectives in this chapter. These conclusions are shown by screenshots and detailed descriptions of key website components such the sign up and login form, data entry form, query output, contact form, and validation procedures.

4.2 Presentation of Findings

The research's findings were arranged in accordance with the study's goals. To give a thorough understanding of the creation and operation of the website, each goal was handled one at a time. These results are presented in detail in the sections that follow.

4.2.1 Objective One

The first objective was to design, develop and implement a real estate consultant website in accordance to the user requirements. Figure 10 shows developed homepage of a consultant website.



Figure 11 HOMEPAGE

4.2.2 Objective Two

The primary goal and implementation of objectives is described here which was to develop a user-friendly real estate consultancy website. The interaction between users and system at different modules and levels are well elaborated using screenshots.

4.2.2.1 Admin Login Module

The admin login page is where an administrator of the system can access his/her dashboard.

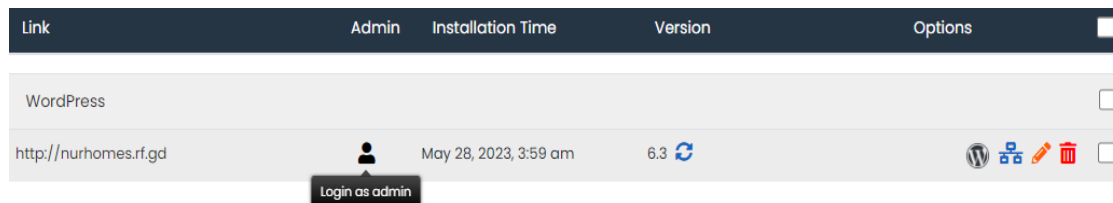


Figure 12 ADMIN LOGIN PAGE

4.2.2.2 Administrator's Module

This page allows the administrator to perform all the operations in the system which can include creating, updating and deleting.

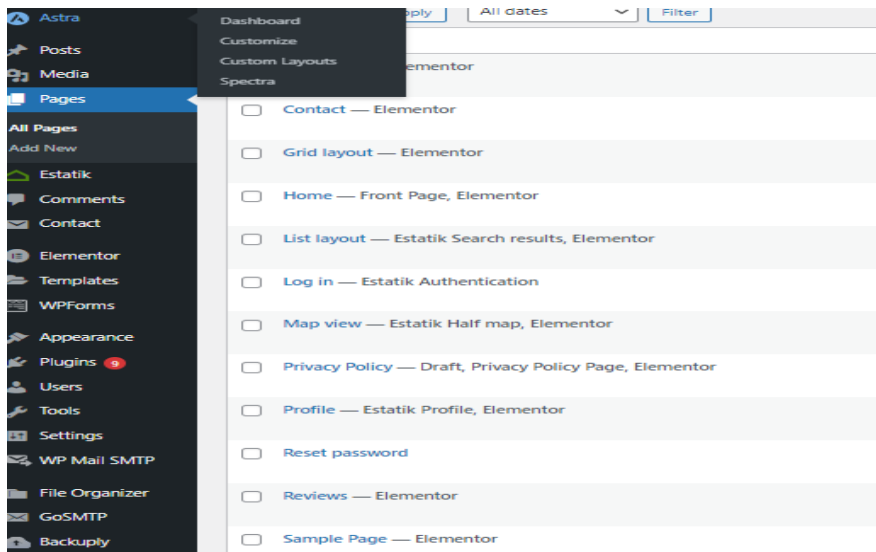


Figure 13 ADMINISTRATOR'S MODULE

4.2.2.3 Data Entry Form

On clicking Find Your Home menu from the homepage, figure 14 is displayed to the clients. The client will then specify their needs to choose the property of their choice in the list layout.

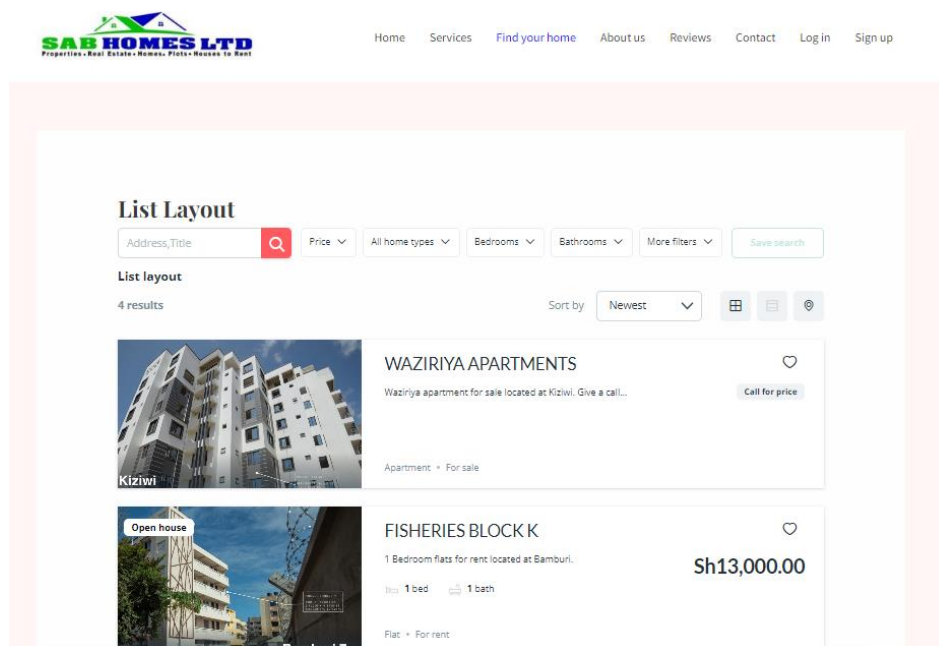


Figure 14 FIND YOUR HOME PAGE

4.2.2.4 Query Output

This is the output after the client has specify their needs.

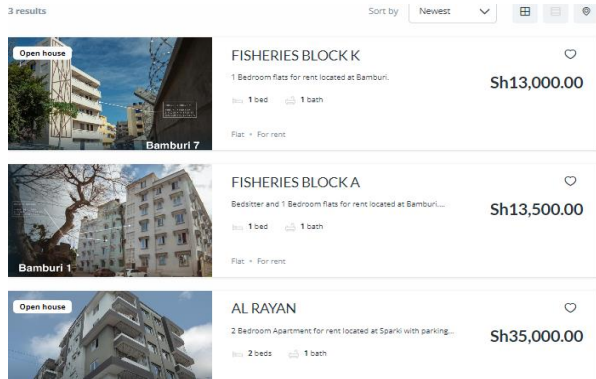


Figure 15 HOUSE DETAILS OUTPUT FORM

4.2.2.5 Contact Form

This is where client can get in touch and communicate with the administrator. The availability of a call icon which directly links to the telephone number of SAB HOMES LTD office as shown in figure 15. Clients can physically locate SAB HOMES LTD office using the map view as shown in figure 16.

Get a Consultation

Feel free to reach out to us if you are interested in viewing any of the properties.

Name *

First Last

Email *

Message *

SEND

Figure 16 CONTACT FORM

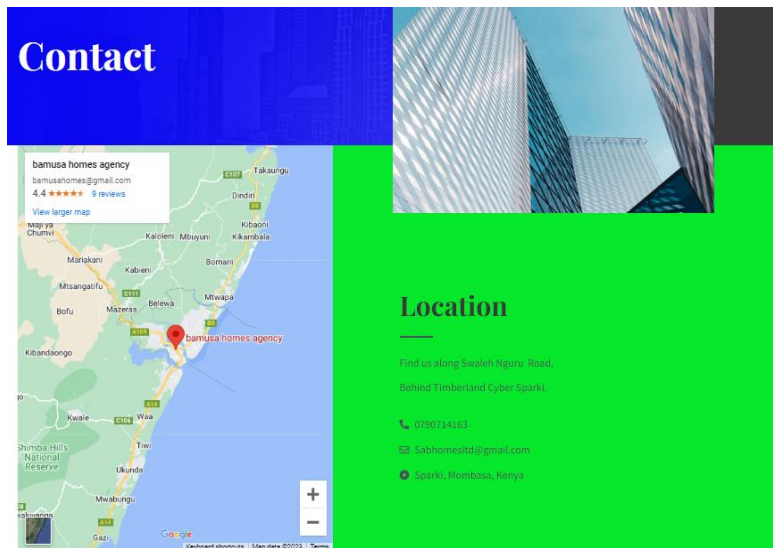


Figure 17 MAP VIEW

4.2.2.6 Customer's sign up and login page

This is where customers create their accounts and save their favorite properties.

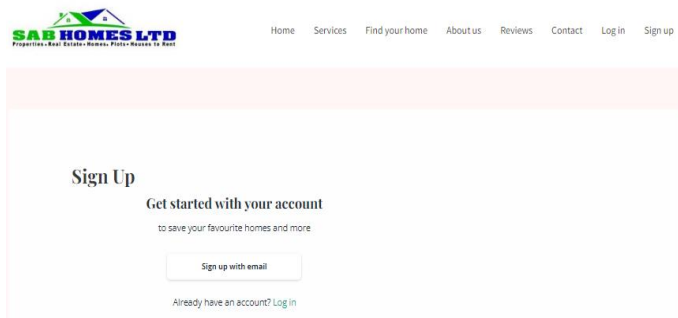


Figure 18 SIGN UP PAGE

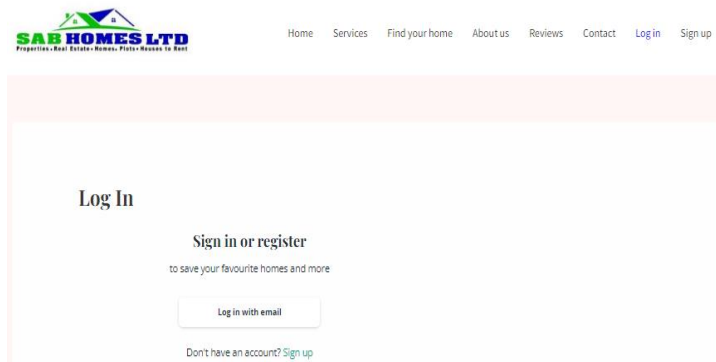


Figure 19 LOGIN PAGE

4.3 Chapter summary

The results shown here serves as evidence based on the objective of the research study as well as fulfilled the system user requirements. The system succeeds in achieving the main and specific objectives of the study in accordance to SAB HOMES policies and regulations.

CHAPTER FIVE: SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

5.1 Introduction

With a summary of the findings, inferences from the research, and suggestions for next steps, this chapter serves as the project's conclusion on the real estate consultant website. It also includes recommendations for additional research. This chapter is essential to completing the project and providing direction for future work.

5.2 Summary of Findings

This project involves the development of a real estate consultant website for SAB HOMES LTD. The goal was to create a user-friendly website which can enhance and facilitate communication between SAB HOMES LTD and their clients. The system was executed in an online environment using HTML, CSS and JavaScript in designing the graphical user interface, while WordPress was used to provide database for server-side communications. SAB HOMES employees' recommendations and comments were involved and acted upon to meet the website's specification.

5.2.1 Objective One

The main goal was to create and construct a real estate consultant website that was user-friendly. The successful implementation of user-friendly elements, such as an efficient login system, well-structured data entry forms, clear query output displays, well-designed reports, and efficient data validation processes, was indicated by findings relating to this objective.

5.2.2 Objective Two

The second goal was to make sure that user experience and web design guidelines were followed. According to the study, the website efficiently abides by these guidelines and provides an aesthetically pleasing and user-friendly experience. A simple layout, easy navigation, responsive design, and user validation feedback are noteworthy qualities.

5.3 Conclusion

In conclusion, the project for the real estate consultant website has succeeded in achieving its goals. The website adheres to web design and user experience best practices and is user-friendly. Logging in is simple, and users can easily submit data, search property listings, generate reports, and get validation comments. In general, the website provides real estate clients with a smooth and effective experience.

5.4 Recommendation

The following recommendations are offered in light of the study's results and conclusions:

1. Monitoring user comments and website analytics frequently will help you find areas that need development. Implement user suggestions, and resolve any problems as soon as possible.
2. Update the content on the website often to make sure it stays a useful resource for customers. This includes keeping a current database of real estate listings, market trends, and other pertinent data.
3. Enhanced Security to safeguard user information and uphold confidence, the website's security measures must be continuously monitored and improved.
4. To effectively serve individuals with disabilities, make sure the website conforms with accessibility requirements.
5. Marketing & Promotion to create a thorough digital marketing plan to boost website visibility and draw in more potential customers.

5.5 Suggestions for further study

Even though this research has shed light on how to create a real estate consultant website, there are still a number of areas that require more research. Future study is suggested in the following areas:

1. User Experience Optimization: Carry out in-depth user experience research to pinpoint areas where the usability and functionality of the website may be further enhanced.

2. Market Trend Analysis: Investigate cutting-edge data analytics methods to give users more in-depth insights into market trends.
3. Investigate the viability and potential advantages of creating a mobile application for the services of real estate consultants.

5.6 Chapter Summary

We outlined the study's findings in this chapter and came to insightful conclusions. Further study recommendations were also provided, opening the door for additional investigations in this area. The website has established itself as a useful resource for real estate consultants and their clients due to its effective development, adherence to web design principles, and unambiguous conclusions.

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APPENDICES

A. Questionnaire and Interview Questions

1. How often do you visit real estate websites to search for properties and consultancy?
2. What type of properties are you primarily interested in (e.g., houses, apartments, commercial properties)?
3. What is your preferred location or area for property search?
4. What is your budget range for purchasing or renting a proper?
5. How do you prefer to receive property listings (e.g., email alerts, website notifications)?
6. How likely are you to use an online platform to contact real estate consultants for inquiries or property viewings?
7. What information do you find most valuable when viewing property listings (e.g., high-quality images, detailed descriptions)?
8. How important is the usability and ease of navigation of a real estate website to you?
9. Would you like to have the option to save and compare properties on the website?
10. What features would you like to see on a real estate website that are not currently available on other platforms?
11. How likely are you to recommend a real estate website to a friend or colleague based on your experience?

B. Budget Table

Table 1 BUDGET TABLE

No	Item	Price	Amount
1	Laptop	35000	35000
1	Hard Disk	6000	6000
6	Transport	1500	1500
5	Printing	1500	1500
		Total	44000

C. Work Plan

Table 2 PROJECT TIME FRAME

Project Time Frame							
Activity	June	July	August	September	October	November	December
Project proposal							
Requirements analysis							
System design							

Coding							
Testing							
Presentation							
Documentation							

D. System Codes

Functions.php

```

<?php
/**
 * Astra functions and definitions
 *
 * @link https://developer.wordpress.org/themes/basics/theme-functions/
 *
 * @package Astra
 * @since 1.0.0
 */

if ( ! defined( 'ABSPATH' ) ) {
    exit; // Exit if accessed directly.
}

/**
 * Define Constants
 */
define( 'ASTRA_THEME_VERSION', '4.1.5' );
define( 'ASTRA_THEME_SETTINGS', 'astra-settings' );
define( 'ASTRA_THEME_DIR', trailingslashit( get_template_directory() ) );
define( 'ASTRA_THEME_URI', trailingslashit( esc_url( get_template_directory_uri() ) ) );
define( 'ASTRA_PRO_UPGRADE_URL', 'https://wpastra.com/pro/?utm_source=dashboard&utm_medium=free-theme&utm_campaign=upgrade-now' );
define( 'ASTRA_PRO_CUSTOMIZER_UPGRADE_URL', 'https://wpastra.com/pro/?utm_source=customizer&utm_medium=free-theme&utm_campaign=upgrade' );

/**
 * Minimum Version requirement of the Astra Pro addon.
 * This constant will be used to display the notice asking user to update the Astra addon to the version defined below.
 */
define( 'ASTRA_EXT_MIN_VER', '4.1.0' );

/**
 * Setup helper functions of Astra.
 */
require_once ASTRA_THEME_DIR . 'inc/core/class-astra-theme-options.php';
require_once ASTRA_THEME_DIR . 'inc/core/class-theme-strings.php';
require_once ASTRA_THEME_DIR . 'inc/core/common-functions.php';
require_once ASTRA_THEME_DIR . 'inc/core/class-astra-icons.php';

```

```

/**
 * Update theme
 */
require_once ASTRA_THEME_DIR . 'inc/theme-update/astra-update-functions.php';
require_once ASTRA_THEME_DIR . 'inc/theme-update/class-astra-theme-background-updater.php';

/**
 * Fonts Files
 */
require_once ASTRA_THEME_DIR . 'inc/customizer/class-astra-font-families.php';
if ( is_admin() ) {
    require_once ASTRA_THEME_DIR . 'inc/customizer/class-astra-fonts-data.php';
}

require_once ASTRA_THEME_DIR . 'inc/lib/webfont/class-astra-webfont-loader.php';
require_once ASTRA_THEME_DIR . 'inc/customizer/class-astra-fonts.php';

require_once ASTRA_THEME_DIR . 'inc/dynamic-css/custom-menu-old-header.php';
require_once ASTRA_THEME_DIR . 'inc/dynamic-css/container-layouts.php';
require_once ASTRA_THEME_DIR . 'inc/dynamic-css/astra-icons.php';
require_once ASTRA_THEME_DIR . 'inc/core/class-astra-walker-page.php';
require_once ASTRA_THEME_DIR . 'inc/core/class-astra-enqueue-scripts.php';
require_once ASTRA_THEME_DIR . 'inc/core/class-gutenberg-editor-css.php';
require_once ASTRA_THEME_DIR . 'inc/core/class-astra-wp-editor-css.php';
require_once ASTRA_THEME_DIR . 'inc/dynamic-css/block-editor-compatibility.php';
require_once ASTRA_THEME_DIR . 'inc/dynamic-css/inline-on-mobile.php';
require_once ASTRA_THEME_DIR . 'inc/dynamic-css/content-background.php';
require_once ASTRA_THEME_DIR . 'inc/class-astra-dynamic-css.php';
require_once ASTRA_THEME_DIR . 'inc/class-astra-global-palette.php';

/**
 * Custom template tags for this theme.
 */
require_once ASTRA_THEME_DIR . 'inc/core/class-astra-attr.php';
require_once ASTRA_THEME_DIR . 'inc/template-tags.php';

require_once ASTRA_THEME_DIR . 'inc/widgets.php';
require_once ASTRA_THEME_DIR . 'inc/core/theme-hooks.php';
require_once ASTRA_THEME_DIR . 'inc/admin-functions.php';
require_once ASTRA_THEME_DIR . 'inc/core/sidebar-manager.php';

/**
 * Markup Functions
 */
require_once ASTRA_THEME_DIR . 'inc/markup-extras.php';
require_once ASTRA_THEME_DIR . 'inc/extras.php';
require_once ASTRA_THEME_DIR . 'inc/blog/blog-config.php';
require_once ASTRA_THEME_DIR . 'inc/blog/blog.php';
require_once ASTRA_THEME_DIR . 'inc/blog/single-blog.php';

/**
 * Markup Files
 */
require_once ASTRA_THEME_DIR . 'inc/template-parts.php';
require_once ASTRA_THEME_DIR . 'inc/class-astra-loop.php';
require_once ASTRA_THEME_DIR . 'inc/class-astra-mobile-header.php';

/**
 * Functions and definitions.
 */
require_once ASTRA_THEME_DIR . 'inc/class-astra-after-setup-theme.php';

// Required files.
require_once ASTRA_THEME_DIR . 'inc/core/class-astra-admin-helper.php';

```

```

require_once ASTRA_THEME_DIR . 'inc/schema/class-astra-schema.php';

/* Setup API */
require_once ASTRA_THEME_DIR . 'admin/includes/class-astra-api-init.php';

if ( is_admin() ) {
    /**
     * Admin Menu Settings
     */
    require_once ASTRA_THEME_DIR . 'inc/core/class-astra-admin-settings.php';
    require_once ASTRA_THEME_DIR . 'admin/class-astra-admin-loader.php';
    require_once ASTRA_THEME_DIR . 'inc/lib/astra-notices/class-astra-notices.php';
}

/**
 * Metabox additions.
 */
require_once ASTRA_THEME_DIR . 'inc/metabox/class-astra-meta-boxes.php';

require_once ASTRA_THEME_DIR . 'inc/metabox/class-astra-meta-box-operations.php';

/**
 * Customizer additions.
 */
require_once ASTRA_THEME_DIR . 'inc/customizer/class-astra-customizer.php';

/**
 * Astra Modules.
 */
require_once ASTRA_THEME_DIR . 'inc/modules/posts-structures/class-astra-post-structures.php';
require_once ASTRA_THEME_DIR . 'inc/modules/related-posts/class-astra-related-posts.php';

/**
 * Compatibility
 */
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-gutenberg.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-jetpack.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/woocommerce/class-astra-woocommerce.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/edd/class-astra-edd.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/lifterlms/class-astra-lifterlms.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/learndash/class-astra-learndash.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-beaver-builder.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-bb-ultimate-addon.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-contact-form-7.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-visual-composer.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-site-origin.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-gravity-forms.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-bne-flyout.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-ubermeu.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-divi-builder.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-amp.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-yoast-seo.php';
require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-starter-content.php';
require_once ASTRA_THEME_DIR . 'inc/addons/transparent-header/class-astra-ext-transparent-header.php';
require_once ASTRA_THEME_DIR . 'inc/addons/breadcrumbs/class-astra-breadcrumbs.php';
require_once ASTRA_THEME_DIR . 'inc/addons/scroll-to-top/class-astra-scroll-to-top.php';
require_once ASTRA_THEME_DIR . 'inc/addons/heading-colors/class-astra-heading-colors.php';
require_once ASTRA_THEME_DIR . 'inc/builder/class-astra-builder-loader.php';

// Elementor Compatibility requires PHP 5.4 for namespaces.
if ( version_compare( PHP_VERSION, '5.4', '>=' ) ) {
    require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-elementor.php';
    require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-elementor-pro.php';
    require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-web-stories.php';
}

```

```

}

// Beaver Themer compatibility requires PHP 5.3 for anonymous functions.
if ( version_compare( PHP_VERSION, '5.3', '>=' ) ) {
    require_once ASTRA_THEME_DIR . 'inc/compatibility/class-astra-beaver-themer.php';
}

require_once ASTRA_THEME_DIR . 'inc/core/markup/class-astra-markup.php';

/**
 * Load deprecated functions
 */
require_once ASTRA_THEME_DIR . 'inc/core/deprecated/deprecated-filters.php';
require_once ASTRA_THEME_DIR . 'inc/core/deprecated/deprecated-hooks.php';
require_once ASTRA_THEME_DIR . 'inc/core/deprecated/deprecated-functions.php';

```

theme.json

```

{
  "version": 2,
  "settings": {
    "color": {
      "palette": [
        {
          "name": "Theme Color 1",
          "slug": "ast-global-color-0",
          "color": "var(--ast-global-color-0)"
        },
        {
          "name": "Theme Color 2",
          "slug": "ast-global-color-1",
          "color": "var(--ast-global-color-1)"
        },
        {
          "name": "Theme Color 3",
          "slug": "ast-global-color-2",
          "color": "var(--ast-global-color-2)"
        },
        {
          "name": "Theme Color 4",
          "slug": "ast-global-color-3",
          "color": "var(--ast-global-color-3)"
        },
        {
          "name": "Theme Color 5",
          "slug": "ast-global-color-4",
          "color": "var(--ast-global-color-4)"
        },
        {
          "name": "Theme Color 6",
          "slug": "ast-global-color-5",
          "color": "var(--ast-global-color-5)"
        },
        {
          "name": "Theme Color 7",
          "slug": "ast-global-color-6",
          "color": "var(--ast-global-color-6)"
        },
        {
          "name": "Theme Color 8",
          "slug": "ast-global-color-7",
          "color": "var(--ast-global-color-7)"
        },
        {
          "name": "Theme Color 9",

```

```

        "slug": "ast-global-color-8",
        "color": "var(--ast-global-color-8)"
    }
}
},
"appearanceTools": true,
"spacing": {
    "blockGap": true,
    "margin": true,
    "padding": true,
    "units": ["%", "px", "em", "rem", "vh", "vw"]
},
"typography": {
    "customFontSize": true,
    "customLineHeight": true,
    "dropCap": true,
    "fontSizes": [
        {
            "size": "13px",
            "name": "Small",
            "slug": "small"
        },
        {
            "size": "20px",
            "name": "Medium",
            "slug": "medium"
        },
        {
            "size": "36px",
            "name": "Large",
            "slug": "large"
        },
        {
            "size": "42px",
            "name": "Extra Large",
            "slug": "x-large"
        }
    ]
},
"layout": {
    "contentSize": "var(--wp--custom--ast-content-width-size)",
    "wideSize": "var(--wp--custom--ast-wide-width-size)",
    "fullSize": "none"
}
},
"styles": {
    "elements": {
        "link": {
            "typography": {
                "textDecoration": "none"
            }
        }
    }
}
}
}
}

```

Toolset-config.json

```

{
    "data": [
        {
            "name": "ast-main-header-display",
            "type": [
                "local"
            ]
        }
    ]
}

```

```

"group": "Layout Settings",
"target": [
  "single"
],
"gui": {
  "display_name": "Primary Header",
  "type": "select",
  "values": [
    {
      "text": "Disabled",
      "value": "disabled"
    },
    {
      "text": "Enabled",
      "value": "enabled"
    }
  ]
},
"default_value": "toolset_use_theme_setting"
},
{
  "name": "site-post-title",
  "type": [
    "local"
  ],
  "group": "Layout Settings",
  "target": [
    "single"
  ],
  "gui": {
    "display_name": "Post Title",
    "type": "select",
    "values": [
      {
        "text": "Disabled",
        "value": "disabled"
      },
      {
        "text": "Enabled",
        "value": "enabled"
      }
    ]
  },
  "default_value": "toolset_use_theme_setting"
},
{
  "name": "site-sidebar-layout",
  "type": [
    "local"
  ],
  "group": "Layout Settings",
  "target": [
    "single"
  ],
  "gui": {
    "display_name": "Sidebar",
    "type": "select",
    "values": [
      {
        "text": "No Sidebar",
        "value": "no-sidebar"
      },
      {
        "text": "Left Sidebar",
        "value": "left-sidebar"
      }
    ]
  }
}

```



```

    },
    {
      "text": "Right Sidebar",
      "value": "right-sidebar"
    }
  ]
},
"default_value": "toolset_use_theme_setting"
},
{
  "name": "site-sidebar-layout",
  "type": [
    "global"
  ],
  "global_key": "astra-settings",
  "group": "Archive Layout Settings",
  "target": [
    "archive"
  ],
  "gui": {
    "display_name": "Sidebar",
    "type": "select",
    "values": [
      {
        "text": "No Sidebar",
        "value": "no-sidebar"
      },
      {
        "text": "Left Sidebar",
        "value": "left-sidebar"
      },
      {
        "text": "Right Sidebar",
        "value": "right-sidebar"
      }
    ]
  },
  "default_value": "toolset_use_theme_setting"
},
{
  "name": "site-content-layout",
  "type": [
    "local"
  ],
  "group": "Layout Settings",
  "target": [
    "single"
  ],
  "gui": {
    "display_name": "Content Layout",
    "type": "select",
    "values": [
      {
        "text": "Boxed",
        "value": "boxed-container"
      },
      {
        "text": "Content Boxed",
        "value": "content-boxed-container"
      },
      {
        "text": "Full Width / Stretched",
        "value": "page-builder"
      }
    ]
  },
  "default_value": "toolset_use_theme_setting"
}

```

```

        "text": "Full Width / Contained",
        "value": "plain-container"
    }
}
},
"default_value": "toolset_use_theme_setting"
},
{
    "name": "site-content-layout",
    "type": [
        "global"
    ],
    "global_key": "astra-settings",
    "group": "Archive Layout Settings",
    "target": [
        "archive"
    ],
    "gui": {
        "display_name": "Content Layout",
        "type": "select",
        "values": [
            {
                "text": "Boxed",
                "value": "boxed-container"
            },
            {
                "text": "Content Boxed",
                "value": "content-boxed-container"
            },
            {
                "text": "Full Width / Stretched",
                "value": "page-builder"
            },
            {
                "text": "Full Width / Contained",
                "value": "plain-container"
            }
        ]
    },
    "default_value": "toolset_use_theme_setting"
},
{
    "name": "footer-sml-layout",
    "type": [
        "local"
    ],
    "group": "Layout Settings",
    "target": [
        "single"
    ],
    "gui": {
        "display_name": "Small Footer",
        "type": "select",
        "values": [
            {
                "text": "Disabled",
                "value": "disabled"
            },
            {
                "text": "Enabled",
                "value": "enabled"
            }
        ]
    },
    "default_value": "toolset_use_theme_setting"
}

```

```

},
{
  "name": "footer-sml-layout",
  "type": [
    "global"
  ],
  "global_key": "astra-settings",
  "group": "Archive Layout Settings",
  "target": [
    "archive"
  ],
  "gui": {
    "display_name": "Small Footer",
    "type": "select",
    "values": [
      {
        "text": "Disabled",
        "value": "disabled"
      }
    ]
  },
  "default_value": "toolset_use_theme_setting"
},
{
  "name": "astra_pagination_enabled",
  "filter_method": "__return_false",
  "type": [
    "control_filters"
  ],
  "target": [
    "archive"
  ],
  "group": "Disable Elements",
  "gui": {
    "display_name": "Pagination",
    "type": "select",
    "values": [
      {
        "text": "Enable",
        "value": 0
      },
      {
        "text": "Disable",
        "value": 1
      }
    ]
  },
  "trigger_value": 1,
  "default_value": 0
},
{
  "name": "astra_the_title_enabled",
  "filter_method": "__return_false",
  "type": [
    "control_filters"
  ],
  "target": [
    "archive"
  ],
  "group": "Disable Elements",
  "gui": {
    "display_name": "Archive Title",
    "type": "select",
    "values": [
      {

```

```

        "text": "Enable",
        "value": 0
    },
    {
        "text": "Disable",
        "value": 1
    }
]
},
"trigger_value": 1,
"default_value": 0
},
{
    "name": "astra_featured_image_enabled",
    "filter_method": "__return_false",
    "type": [
        "control_filters"
    ],
    "target": [
        "single"
    ],
    "group": "Disable Elements",
    "gui": {
        "display_name": "Featured Image",
        "type": "select",
        "values": [
            {
                "text": "Enable",
                "value": 0
            },
            {
                "text": "Disable",
                "value": 1
            }
        ]
    },
    "trigger_value": 1,
    "default_value": 0
},
{
    "name": "astra_single_post_meta_enabled",
    "filter_method": "__return_false",
    "type": [
        "control_filters"
    ],
    "target": [
        "single"
    ],
    "group": "Disable Elements",
    "gui": {
        "display_name": "Post meta information",
        "type": "select",
        "values": [
            {
                "text": "Enable",
                "value": 0
            },
            {
                "text": "Disable",
                "value": 1
            }
        ]
    },
    "trigger_value": 1,
    "default_value": 0
}

```

```

    },
    {
        "name": "toolset_disable_read_more_for_excerpt",
        "type": [
            "toolset_custom"
        ],
        "group": "Disable Elements",
        "target": [
            "archive"
        ],
        "gui": {
            "display_name": "Read more link in excerpt",
            "type": "select",
            "values": [
                {
                    "text": "Disable",
                    "value": 1
                },
                {
                    "text": "Enable",
                    "value": 0
                }
            ]
        },
        "default_value": 0
    }
]
}

```

404.php

```

<?php
/**
 * The template for displaying 404 pages (not found).
 *
 * @link https://codex.wordpress.org/Creating_an_Error_404_Page
 *
 * @package Astra
 * @since 1.0.0
 */

if ( ! defined( 'ABSPATH' ) ) {
    exit; // Exit if accessed directly.
}

get_header(); ?>

<?php if ( astra_page_layout() == 'left-sidebar' ) : ?>

    <?php get_sidebar(); ?>

```

```
<?php endif ?>
```

```
<div id="primary" <?php astra_primary_class(); ?>
```

```
<?php astra_primary_content_top(); ?>
```

```
<?php astra_404_content_template(); ?>
```

```
<?php astra_primary_content_bottom(); ?>
```

```
</div><!-- #primary -->
```

```
<?php if ( astra_page_layout() == 'right-sidebar' ) : ?>
```

```
<?php get_sidebar(); ?>
```

```
<?php endif ?>
```

```
<?php get_footer(); ?>
```

Archive.php

```
<?php
```

```
/**
```

```
 * The template for displaying archive pages.
```

```
 *
```

```
 * @link https://codex.wordpress.org/Template\_Hierarchy
```

```
 *
```

```
 * @package Astra
```

```
 * @since 1.0.0
```

```
 */
```

```
if ( ! defined( 'ABSPATH' ) ) {
```

```
    exit; // Exit if accessed directly.
```

```
}
```

```
get_header(); ?>
```

```

<?php if ( astra_page_layout() == 'left-sidebar' ) : ?>

    <?php get_sidebar(); ?>

<?php endif ?>

<div id="primary" <?php astra_primary_class(); ?>>

    <?php astra_primary_content_top(); ?>

    <?php astra_archive_header(); ?>

    <?php astra_content_loop(); ?>

    <?php astra_pagination(); ?>

    <?php astra_primary_content_bottom(); ?>

</div><!-- #primary -->

<?php if ( astra_page_layout() == 'right-sidebar' ) : ?>

    <?php get_sidebar(); ?>

<?php endif ?>

<?php get_footer(); ?>

```

Comments.php

```

<?php
/**
 * The template for displaying comments.
 *
 * This is the template that displays the area of the page that contains both the current comments
 * and the comment form.
 *
 * @link https://codex.wordpress.org/Template_Hierarchy

```

```

*

* @package Astra
* @since 1.0.0
*/

if ( ! defined( 'ABSPATH' ) ) {
    exit; // Exit if accessed directly.
}

/*
* If the current post is protected by a password and
* the visitor has not yet entered the password we will
* return early without loading the comments.
*/
if ( post_password_required() ) {
    return;
}

?>

<div id="comments" class="comments-area">

    <?php astra_comments_before(); ?>

    <?php
    if ( have_comments() ) :
        astra_markup_open( 'comment-count-wrapper' );
        ?>

        <h3 class="comments-title">

            <?php
            $astra_comments_title = apply_filters(
                'astra_comment_form_title',
                sprintf( // WPCS: XSS OK.

                    /* translators: 1: number of comments */
                    esc_html( _nx( '1$s thought on &ldquo;%2$s&rdquo;', '1$s
thoughts on &ldquo;%2$s&rdquo;', get_comments_number(), 'comments title', 'astra' ) ),
                    number_format_i18n( get_comments_number() ),
                    get_the_title()

```



```

        )

    );

    echo esc_html( $astra_comments_title );

    ?>

</h3>

<?php
astra_markup_close( 'comment-count-wrapper' );

if ( get_comment_pages_count() > 1 && get_option( 'page_comments' ) ) :

    ?>

    <nav id="comment-nav-above" class="navigation comment-navigation" aria-label="<?php esc_attr_e(
'Comments Navigation', 'astra' ); ?>">

        <h3 class="screen-reader-text"><?php echo esc_html( astra_default_strings( 'string-comment-
navigation-next', false ) ); ?></h3>

        <div class="nav-links">

            <div class="nav-previous"><?php previous_comments_link( astra_default_strings( 'string-
comment-navigation-previous', false ) ); ?></div>

            <div class="nav-next"><?php next_comments_link( astra_default_strings( 'string-
comment-navigation-next', false ) ); ?></div>

        </div><!-- .nav-links -->

    </nav><!-- #comment-nav-above -->

<?php endif; ?>

<ol class="ast-comment-list">

    <?php
    wp_list_comments(
        array(
            'callback' => 'astra_theme_comment',
            'style' => 'ol',
        )
    );

    ?>

</ol><!-- .ast-comment-list -->

<?php if ( get_comment_pages_count() > 1 && get_option( 'page_comments' ) ) : ?>

```

```

        <nav id="comment-nav-below" class="navigation comment-navigation" aria-label="<?php esc_attr_e(
'Comments Navigation', 'astra' ); ?>">

            <h3 class="screen-reader-text"><?php echo esc_html( astra_default_strings( 'string-comment-
navigation-next', false ) ); ?></h3>

            <div class="nav-links">

                <div class="nav-previous"><?php previous_comments_link( astra_default_strings( 'string-
comment-navigation-previous', false ) ); ?></div>

                <div class="nav-next"><?php next_comments_link( astra_default_strings( 'string-
comment-navigation-next', false ) ); ?></div>

            </div><!-- .nav-links -->

        </nav><!-- #comment-nav-below -->

    <?php endif; ?>

<?php endif; ?>

<?php
    // If comments are closed and there are comments, let's leave a little note, shall we?
    if ( ! comments_open() && get_comments_number() && post_type_supports( get_post_type(), 'comments' ) ) :
        ?>
        <p class="no-comments"><?php echo esc_html( astra_default_strings( 'string-comment-closed', false ) );
?></p>
    <?php endif; ?>

    <?php comment_form(); ?>

    <?php astra_comments_after(); ?>

</div><!-- #comments -->

```

Footer.php

```

<?php
/**
 * The template for displaying the footer.
 *
 * Contains the closing of the #content div and all content after.
 *
 * @link https://developer.wordpress.org/themes/basics/template-files/#template-partials

```

```

*

* @package Astra
* @since 1.0.0
*/

if ( ! defined( 'ABSPATH' ) ) {
    exit; // Exit if accessed directly.
}

```

```

?>

<?php astra_content_bottom(); ?>

    </div> <!-- ast-container -->
    </div> <!-- #content -->

<?php
    astra_content_after();

    astra_footer_before();

    astra_footer();

    astra_footer_after();
?>

    </div> <!-- #page -->

<?php
    astra_body_bottom();
    wp_footer();
?>

    </body>

</html>

```

Header.php

```

<?php
/**
 * The header for Astra Theme.
 *
 * This is the template that displays all of the <head> section and everything up until <div id="content">
 *

```

```

* @link https://developer.wordpress.org/themes/basics/template-files/#template-partials
*
* @package Astra
* @since 1.0.0
*/

```

```

if ( ! defined( 'ABSPATH' ) ) {
    exit; // Exit if accessed directly.
}

```

```

?><!DOCTYPE html>
<?php astra_html_before(); ?>
<html <?php language_attributes(); ?>>
<head>
<?php astra_head_top(); ?>
<meta charset="<?php bloginfo( 'charset' ); ?>">
<meta name="viewport" content="width=device-width, initial-scale=1">
<?php
if ( apply_filters( 'astra_header_profile_gmpg_link', true ) ) {
    ?>
    <link rel="profile" href="https://gmpg.org/xfn/11">
    <?php
}
?>
<?php wp_head(); ?>
<?php astra_head_bottom(); ?>
</head>

```

```

<body <?php astra_schema_body(); ?> <?php body_class(); ?>>
<?php astra_body_top(); ?>
<?php wp_body_open(); ?>

<a
    class="skip-link screen-reader-text"
    href="#content"
    role="link"

```

```

        title="<?php echo esc_attr( astra_default_strings( 'string-header-skip-link', false ) ); ?>">
            <?php echo esc_html( astra_default_strings( 'string-header-skip-link', false ) ); ?>
    </a>

<div
<?php
    echo astra_attr(
        'site',
        array(
            'id' => 'page',
            'class' => 'hfeed site',
        )
    );
?>
>

<?php
astra_header_before();

astra_header();

astra_header_after();

astra_content_before();
?>
<div id="content" class="site-content">
    <div class="ast-container">
        <?php astra_content_top(); ?>

```

Index.php

```

<?php
/**
 * The main template file.
 *
 * This is the most generic template file in a WordPress theme
 * and one of the two required files for a theme (the other being style.css).
 * It is used to display a page when nothing more specific matches a query.
 * E.g., it puts together the home page when no home.php file exists.

```

```

*
* @link https://codex.wordpress.org/Template_Hierarchy
*
* @package Astra
* @since 1.0.0
*/

if ( ! defined( 'ABSPATH' ) ) {
    exit; // Exit if accessed directly.
}

get_header();?>

<?php if ( astra_page_layout() == 'left-sidebar' ) : ?>

    <?php get_sidebar(); ?>

<?php endif ?>

    <div id="primary" <?php astra_primary_class(); ?>>
        <?php
            astra_primary_content_top();

            astra_content_loop();

            astra_pagination();

            astra_primary_content_bottom();
        ?>
    </div><!-- #primary -->
<?php
if ( astra_page_layout() == 'right-sidebar' ) :

    get_sidebar();

endif;

get_footer();

```

page.php

```
<?php
/**
 * The template for displaying all pages.
 *
 * This is the template that displays all pages by default.
 * Please note that this is the WordPress construct of pages
 * and that other 'pages' on your WordPress site may use a
 * different template.
 *
 * @link https://codex.wordpress.org/Template_Hierarchy
 *
 * @package Astra
 * @since 1.0.0
 */

if ( ! defined( 'ABSPATH' ) ) {
    exit; // Exit if accessed directly.
}

get_header(); ?>

<?php if ( astra_page_layout() == 'left-sidebar' ) : ?>

    <?php get_sidebar(); ?>

<?php endif ?>

<div id="primary" <?php astra_primary_class(); ?>>

    <?php astra_primary_content_top(); ?>

    <?php astra_content_page_loop(); ?>

    <?php astra_primary_content_bottom(); ?>
```

```
</div><!-- #primary -->
```

```
<?php if ( astra_page_layout() == 'right-sidebar' ) : ?>
```

```
<?php get_sidebar(); ?>
```

```
<?php endif ?>
```

```
<?php get_footer(); ?>
```

Search.php

```
<?php
```

```
/**
```

```
 * The template for displaying search results pages.
```

```
 *
```

```
 * @link https://developer.wordpress.org/themes/basics/template-hierarchy/#search-result
```

```
 *
```

```
 * @package Astra
```

```
 * @since 1.0.0
```

```
 */
```

```
if ( ! defined( 'ABSPATH' ) ) {
```

```
    exit; // Exit if accessed directly.
```

```
}
```

```
get_header(); ?>
```

```
<?php if ( astra_page_layout() == 'left-sidebar' ) : ?>
```

```
<?php get_sidebar(); ?>
```

```
<?php endif ?>
```

```
<div id="primary" <?php astra_primary_class(); ?>>
```

```
<?php astra_primary_content_top(); ?>
```



```
<?php astra_archive_header(); ?>
```

```
<?php astra_content_loop(); ?>
```

```
<?php astra_pagination(); ?>
```

```
<?php astra_primary_content_bottom(); ?>
```

```
</div><!-- #primary -->
```

```
<?php if ( astra_page_layout() == 'right-sidebar' ) : ?>
```

```
<?php get_sidebar(); ?>
```

```
<?php endif ?>
```

```
<?php get_footer(); ?>
```

Searchform.php

```
<?php
```

```
/**
```

```
 * Search Form for Astra theme.
```

```
 *
```

```
 * @package  Astra
```

```
 * @author   Brainstorm Force
```

```
 * @copyright Copyright (c) 2020, Brainstorm Force
```

```
 * @link     https://www.brainstormforce.com
```

```
 * @since    Astra 3.3.0
```

```
 */
```

```
/**
```

```
 * Adding argument checks to avoid rendering search-form markup from other places & to easily use get_search_form() function.
```

```
 *
```

```
 * @see https://themes.trac.wordpress.org/ticket/101061
```

```
 * @since 3.6.1
```

```
 */
```

```

$astra_search_input_placeholder = isset( $args['input_placeholder'] ) ? $args['input_placeholder'] : astra_default_strings( 'string-search-input-placeholder', false );

$astra_search_show_input_submit = isset( $args['show_input_submit'] ) ? $args['show_input_submit'] : true;

$astra_search_data_attrs = isset( $args['data_attributes'] ) ? $args['data_attributes'] : '';

$astra_search_input_value = isset( $args['input_value'] ) ? $args['input_value'] : '';

?>

<form role="search" method="get" class="search-form" action="<?php echo esc_url( home_url( '/' ) ); ?>">

    <label>

        <span class="screen-reader-text"><?php echo esc_html__( 'Search for:', 'astra' ); ?></span>

        <input type="search" class="search-field" <?php echo esc_attr( $astra_search_data_attrs ); ?>
placeholder="<?php echo esc_attr( $astra_search_input_placeholder ); ?>" value="<?php echo esc_attr( $astra_search_input_value );
?>" name="s" tabindex="-1">

        <?php if ( class_exists( 'Astra_Icons' ) && Astra_Icons::is_svg_icons() ) { ?>

            <button class="search-submit ast-search-submit" aria-label="<?php echo esc_attr__( 'Search Submit',
'astra' ); ?>">

                <span hidden><?php echo esc_html__( 'Search', 'astra' ); ?></span>

                <i><?php Astra_Icons::get_icons( 'search', true ); ?></i>

            </button>

        <?php } ?>

    </label>

    <?php if ( $astra_search_show_input_submit ) { ?>

        <input type="submit" class="search-submit" value="<?php echo esc_attr__( 'Search', 'astra' ); ?>">

    <?php } ?>

</form>

<?php

```

Sidebar.php

```

<?php
/**
 * The sidebar containing the main widget area.
 *
 * @link https://developer.wordpress.org/themes/basics/template-files/#template-partials
 *
 * @package Astra
 * @since 1.0.0
 */

if ( ! defined( 'ABSPATH' ) ) {

```

```

        exit; // Exit if accessed directly.
    }

    $astra_sidebar = apply_filters( 'astra_get_sidebar', 'sidebar-1' );

    echo '<div ';

        echo astra_attr(
            'sidebar',
            array(
                'id' => 'secondary',
                'class' => join( ' ', astra_get_secondary_class() ),
            )
        );
    echo '>';

    ?>

    <div class="sidebar-main" <?php /** @psalm-suppress TooManyArguments */ echo apply_filters(
    'astra_sidebar_data_attrs', '', $astra_sidebar ); // phpcs:ignore WordPress.Security.EscapeOutput.OutputNotEscaped,
    Generic.Commenting.DocComment.MissingShort ?>>

        <?php astra_sidebars_before(); ?>

    <?php

        if ( is_active_sidebar( $astra_sidebar ) ) :

            dynamic_sidebar( $astra_sidebar );

        endif;

        astra_sidebars_after();

    ?>

    </div><!-- .sidebar-main -->
</div><!-- #secondary -->

```

Single.php

```

<?php
/**
 * The template for displaying all single posts.
 *

```

```

* @link https://developer.wordpress.org/themes/basics/template-hierarchy/#single-post
*
* @package Astra
* @since 1.0.0
*/

```

```

if ( ! defined( 'ABSPATH' ) ) {
    exit; // Exit if accessed directly.
}

```

```

get_header(); ?>

```

```

<?php if ( astra_page_layout() == 'left-sidebar' ) : ?>

```

```

    <?php get_sidebar(); ?>

```

```

<?php endif ?>

```

```

    <div id="primary" <?php astra_primary_class(); ?>>

```

```

        <?php astra_primary_content_top(); ?>

```

```

        <?php astra_content_loop(); ?>

```

```

        <?php astra_primary_content_bottom(); ?>

```

```

    </div><!-- #primary -->

```

```

<?php if ( astra_page_layout() == 'right-sidebar' ) : ?>

```

```

    <?php get_sidebar(); ?>

```

```

<?php endif ?>

```

```

<?php get_footer(); ?>

```

Wpml-config.xml

```

<wpml-config>
  <custom-fields>
    <custom-field action="copy">ast-main-header-display</custom-field>
    <custom-field action="copy">ast-hfb-above-header-display</custom-field>
    <custom-field action="copy">ast-hfb-below-header-display</custom-field>
    <custom-field action="copy">ast-hfb-mobile-header-display</custom-field>
    <custom-field action="copy">footer-adv-display</custom-field>
    <custom-field action="copy">adv-header-id-meta</custom-field>
    <custom-field action="copy">ast-above-header-display</custom-field>
    <custom-field action="copy">ast-below-header-display</custom-field>
    <custom-field action="copy">footer-sml-layout</custom-field>
    <custom-field action="copy">stick-header-meta</custom-field>
    <custom-field action="copy">header-main-stick-meta</custom-field>
    <custom-field action="copy">header-above-stick-meta</custom-field>
    <custom-field action="copy">header-below-stick-meta</custom-field>
    <custom-field action="copy">site-post-title</custom-field>
    <custom-field action="copy">site-sidebar-layout</custom-field>
    <custom-field action="copy">site-content-layout</custom-field>
    <custom-field action="copy">ast-featured-img</custom-field>
    <custom-field action="copy">ast-breadcrumbs-content</custom-field>
    <custom-field action="copy">theme-transparent-header-meta</custom-field>
    <custom-field action="copy">ast-advanced-hook-layout</custom-field>
    <custom-field action="copy">ast-advanced-hook-location</custom-field>
    <custom-field action="copy">ast-advanced-hook-exclusion</custom-field>
    <custom-field action="copy">ast-advanced-hook-users</custom-field>
  </custom-fields>
  <admin-texts>
    <key name="astra-settings">
      <key name="header-html-1"/>
      <key name="header-html-2"/>
      <key name="header-html-3"/>
      <key name="header-html-4"/>
      <key name="header-html-5"/>
      <key name="header-html-6"/>
      <key name="header-html-7"/>
      <key name="header-html-8"/>
    </key>
  </admin-texts>
</wpml-config>

```

```
<key name="header-html-9"/>
<key name="header-html-10"/>
<key name="footer-html-1"/>
<key name="footer-html-2"/>
<key name="footer-html-3"/>
<key name="footer-html-4"/>
<key name="footer-html-5"/>
<key name="footer-html-6"/>
<key name="footer-html-7"/>
<key name="footer-html-8"/>
<key name="footer-html-9"/>
<key name="footer-html-10"/>
<key name="header-button1-text"/>
<key name="header-button2-text"/>
<key name="header-button3-text"/>
<key name="header-button4-text"/>
<key name="header-button5-text"/>
<key name="header-button6-text"/>
<key name="header-button7-text"/>
<key name="header-button8-text"/>
<key name="header-button9-text"/>
<key name="header-button10-text"/>
<key name="header-button1-link-option"/>
<key name="header-button2-link-option"/>
<key name="header-button3-link-option"/>
<key name="header-button4-link-option"/>
<key name="header-button5-link-option"/>
<key name="header-button6-link-option"/>
<key name="header-button7-link-option"/>
<key name="header-button8-link-option"/>
<key name="header-button9-link-option"/>
<key name="header-button10-link-option"/>
<key name="footer-button1-text"/>
<key name="footer-button2-text"/>
<key name="footer-button3-text"/>
<key name="footer-button4-text"/>
```

<key name="footer-button5-text"/>
<key name="footer-button6-text"/>
<key name="footer-button7-text"/>
<key name="footer-button8-text"/>
<key name="footer-button9-text"/>
<key name="footer-button10-text"/>
<key name="footer-button1-link-option"/>
<key name="footer-button2-link-option"/>
<key name="footer-button3-link-option"/>
<key name="footer-button4-link-option"/>
<key name="footer-button5-link-option"/>
<key name="footer-button6-link-option"/>
<key name="footer-button7-link-option"/>
<key name="footer-button8-link-option"/>
<key name="footer-button9-link-option"/>
<key name="footer-button10-link-option"/>
<key name="header-account-logged-out-text"/>
<key name="header-account-logged-in-text"/>
<key name="header-account-login-link"/>
<key name="header-account-logout-link"/>
<key name="header-main-rt-section-html"/>
<key name="header-main-rt-section-button-text"/>
<key name="header-main-rt-section-button-link"/>
<key name="header-main-menu-label"/>
<key name="blog-read-more-text"/>
<key name="blog-load-more-text"/>
<key name="header-search-box-placeholder"/>
<key name="below-header-section-1-html"/>
<key name="below-header-section-2-html"/>
<key name="above-header-section-1-html"/>
<key name="above-header-section-2-html"/>
<key name="url"/>
<key name="shop-load-more-text"/>
<key name="product-sale-percent-value"/>
<key name="shop-filter-trigger-link"/>
<key name="related-posts-title"/>

```
<key name="footer-html-1"/>
<key name="footer-html-2"/>
<key name="footer-copyright-editor"/>
<key name="footer-sml-section-1-credit"/>
<key name="footer-sml-section-2-credit"/>
<key name="edd-archive-add-to-cart-button-text"/>
<key name="edd-archive-variable-button-text"/>
<key name="woo-cart-button-text"/>
<key name="single-product-shipping-text"/>
<key name="woo-header-cart-label-display"/>
</key>
</admin-texts>
</wpml-config>
```