Exploring And Investigating The Advantages Of Static Websites

Introduction

This project is based on the development of static websites and how their advantages can be utilised in the mass market. Currently, static websites are not commonly used, mainly due to the web development experience required to be able to understand and use the technologies involved.

A static site consists of HTML, CSS and sometimes JavaScript. They don't use any database functionality or server-side scripting.

53% Mobile websites abandonded if page takes more than 3 seconds to load And 57% of users say they won't recommend a business with a poorly-designed mobile site

Static Website



Client's Browser

Dynamic Website



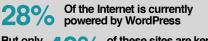


Client's Browse

Audience

 Targeted at novice users, ones with no web development experience but who would benefit from the advantages that a static website has - Bloggers, students or small businesses

- Someone that needs a small, content-based website with no complex functionality



But only 40% of these sites are kept up to date, Ieaving massive security flaws





Problem

- Users turning to easy solutions such as WordPress because they don't have the skills required for building static sites
 WordPress has many security flaws due to it being open-source and often not being kept updated
 Jekyll sites and static sites in general are not easy to update/maintain, due to them usually not having a front-facing CMS
 Dynamic sites such as WordPress are slower and larger in file size, making them particularly bad on mobile devices and crash under heavy user loads

Why?

- Static sites are faster and more secure, due to the lack of database connections Mobile devices have limited network connections and smaller processors, therefore websites need
- to be as small as possible Websites need to be lighter and smaller in file size to improve loading times - Content on static sites can be controlled by text files, these are local and accessible at all times
 - Tests have shown that Jekyll sites are 164% faster than sites created using WordPress of users are unlikely to return to a mobile 40% site they had trouble accessing and visit a competitor's site instead

Solution

- The proposed solution will take advantage of static sites by using local text files, such as an excel document, to control the content
 When building the site, users will upload their excel document and an online tool will then generate them a static Jekyll website, ready for hosting
 Users will be able to pick from a range of website templates
 There isn't a complex CMS to learn so users with minimal ability can edit content on a website
 Each HTML template will have an excel file to be able to edit corresponding content
 Websites that are created will be lighter and faster, making them much better when thinking about loading times on mobile devices
 Due to the sites being light, they have hardly any load on the servers that host them, therefore they won't crash with a spike in user levels

Jekyll website generator Simple Content is local Easy to use Scalability for HTML templates No complex CMS Output is fast Small in file size No load on servers Blog friendly SEO friendly Better for mobile devices



Browse website templates



Download template excel

document





Complete template

A typical user journey

Add content to document



Upload to online website generator



Downloadable website ready for hosting