U6 Assignment 4 Web Application Development for Berimbolo Security

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Introduction

Berimbolo Security, a company specializing in security systems and monitoring, is building a new website to enhance their online presence and attract new customers. This report outlines the development process, ensuring quality and functionality throughout.

Website Development Process

Step 1: Site Creation

Development Tools and Frameworks: The website shall be built on either an appropriate IDE-Visual Studio Code or any other framework-Django or ReactJS, which provides certain features to the developers for speeding up development and maintaining code quality.

Content Creation: All content will align with Berimbolo Security's requirements and target audience. This includes:

Clearly explained explanations of security services: security risk assessment, alarm system, CCTVs, and 24/7 monitoring

Quality images and videos that showcase security systems and their benefits on display.

• Forms to Contact or Call for an Inquiry-and other compelling call-to-actions

Step 2: Website Testing

Functional Testing:

Every single element on the site will be thoroughly tested to its maximum: links, forms, and buttons for functionality.

User Interactions: Navigation, any sign-in processes, if applicable, and form submissions should go through.

Compatibility testing:

The website will be checked on desktop, tablet, and mobile in order to confirm responsiveness and the best possible view for any screen size.

Compatible with all major browsers: Chrome, Safari, and Edge, Firefox.

Usability testing:

There will be user test sessions in terms of website usability, accessibility, and the general user experience.

• Information collection from prospective customers on what they would like to see improved based on frustrations in navigation or finding unclear information.

Step 3: Feedback and Improvement

Test your website by inviting stakeholders, potential users, or peers to do so.

Detailed individual feedback with the participants on:

The expressive design and aesthetic

Performance and speed of the website.

They are user-friendly and easy to navigate.

Reflect on feedback given in order to make improvements.

Step 4: Implementation and Enhancement

It would refine its website in view of the feedback it receives.

The design could involve changing the color scheme, improving the layout, optimizing images, etc.

Functional improvements might include streamlining navigation, enhancing CTAs, or improving form performance.

Keep a log of the changes made for future reference.

Specific feedback not addressed will be followed by a clear justification.

Further testing of design variations, if necessary, and incorporating those working best.

Step 5: Documentation

Records should also be kept concerning the test results and feedback sessions.

What is expected here is to highlight an identified problem/error.

It will contain "before-after" versions of the website, which show developments made in view of changes applied.

Step 6: Website optimization

Regarding testing and feedback received from the users, the following optimization will be effected:

Improved Performance: faster loading, fewer errors, more efficient resources usage.

Smart design: more appealing; easier to navigate; effective use of multi-media where appropriate.

• Usability improved: easy to navigate, intuitive user flow, and accessible to all kinds of users.

Details on optimizations may be provided by annotating the Web design itself or in a separate document.