Group 12

DOCUMENTATION

1. Introduction

The school website is designed to provide information about the school, its students, academic programs, and other activities like school fee payment and Course registration.The website is built using HTML, CSS, and PHP, and is hosted on a local server using XAMPP.

2. Design

The website design is simple and user-friendly, with a clean layout and easy-to-navigate menus. The homepage features the School Name, as well as a brief introduction about the school.

2.1 HTML

The website is built using HTML5, which provides a clean and consistent markup language for structuring content. The HTML code is organized into sections, headers, footers, and other semantic elements to improve accessibility and search engine optimization.

2.2 CSS

The website's design is implemented using CSS, which provides a powerful and flexible way to style the website's layout, colors, fonts, and other visual elements. The CSS code is organized with internal selector for each page, and is optimized for performance and cross-browser compatibility.

2.3 PHP

The website's functionality is implemented using PHP, which provides a powerful server-side scripting language for creating dynamic and interactive web pages. The PHP code is organized into separate files for each page, and is tested for compatibility with XAMPP.

3. Implementation

The website is hosted on a local server using XAMPP, which provides a powerful and flexible platform for developing and testing web applications. The website's PHP code is executed on the server, and the resulting HTML and CSS code is sent to the client's web browser for display.

3.1 XAMPP

XAMPP is a free and open-source software package that includes Apache, MySQL, PHP, and other tools for creating and testing web applications. The website's PHP code is executed on the Apache server, and the MySQL database is used to store and retrieve data.

3.2 Security Measures

To ensure the website's security, the following measures are implemented:

- **Input validation**: All user input is validated to prevent SQL injection and other types of attacks.

- **Password hashing**: User passwords are hashed using the bcrypt algorithm to prevent unauthorized access.

- **Session management**: User sessions are managed using PHP's built-in session management functions to prevent session hijacking and other types of attacks.

- **Cross-site scripting (XSS) protection**: All user input is sanitized to prevent cross-site scripting

attacks.

- **Cross-site request forgery (CSRF) protection**: CSRF tokens are used to prevent cross-site request forgery attacks.

- **Database backup**: Regular backups of the MySQL database are taken to prevent data loss.

4. Conclusion

The school website design using HTML, CSS, and PHP with XAMPP as the backend, and implementation of security measures is a powerful and flexible platform for creating and testing web applications. The website's design is simple and user-friendly, with a clean layout and easy-to-navigate menus. The website's functionality is implemented using PHP, which provides a powerful server-side scripting language for creating dynamic and interactive web pages. The website's security is ensured by implementing input validation, password hashing, session management, cross-site scripting (XSS) protection, cross-site request forgery (CSRF) protection, and database backup.