Technology Choices - Online Medical System

In the development of the Online Medical System, the following technologies have been chosen to create a robust and efficient application:

Front-end Technologies:

- **JavaScript (JS):** JS is used to add interactivity and dynamic functionality to the system's web pages, providing a seamless user experience.
- **HTML/CSS:** HTML and CSS are utilized for structuring and styling the user interface of the Online Medical System, ensuring a visually appealing and intuitive design.

Back-end Technologies:

- **PHP:** PHP is employed as the primary server-side scripting language to handle dynamic content generation, data processing, and interaction with the database.
- **SQL (MySQL):** MySQL is the chosen relational database management system for storing and managing the system's data efficiently.

Testing Framework:

- **PHPUnit:** PHPUnit is utilized as the testing framework for conducting unit tests on the system's PHP code. It allows for automated testing, ensuring the stability and correctness of the implemented functionalities.

Rationale:

The chosen technologies offer several advantages for the development of the Online Medical System. JavaScript provides rich client-side interactions, enhancing the user experience by enabling dynamic updates without page reloads. HTML/CSS ensures a well-structured and visually appealing user interface.

PHP is a popular server-side scripting language known for its ease of use, extensive community support, and compatibility with various web servers. It enables seamless integration with MySQL, a robust and widely adopted database management system.

PHPUnit is a mature and widely used testing framework in the PHP ecosystem, providing comprehensive tools for unit testing. It facilitates the identification of code issues, ensuring the system's reliability and stability.

The chosen technologies align with industry standards and best practices, offering a solid foundation for the development, testing, and maintenance of the Online Medical System.