

Library Management Program

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Abstract: The thesis focuses on analyzing, designing, and developing a web-based online library management software system. The theoretical section introduces basic network concepts (WWW, Web Server, HTML) and particularly the power of Active Server Pages (ASP) technology. Applying object-oriented analysis and design methodology through the Unified Modeling Language (UML), the author systematizes real-world library business processes. Use case diagrams and class diagrams are rigorously established, combined with an SQL Server database to ensure secure storage. The result is a complete dynamic web application that supports book borrowing and returning operations, reader management, and statistical report extraction.

Keywords: Library management, web application, ASP, UML, system analysis and design, SQL Server

References

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