

SMART LIBRARY SYSTEM – INNOVATION IN LIBRARIES WITH A SMART BOOK PRINTER

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<https://doi.org/10.5281/zenodo.14061646>

Abstract: This article explores the "Smart Library System" project, which aims to address issues in the automation and standardization of library services. The project centers around an innovative "smart book printer" that allows users to print electronic books in a physical format. The main goal is to encourage the younger generation to read more and familiarize themselves with new technologies. This article discusses the technological features, practical benefits, and social significance of the "Smart Library System" project.

Keywords: Smart Library System, smart book printer, library automation, youth reading, library innovation, technological library.

Introduction. In an era where technology is rapidly advancing, there is a growing need to modernize library services to meet contemporary demands. Traditional libraries are often ineffective in attracting young people, leading to a decline in their interest in books. The "Smart Library System" project seeks to increase the popularity of libraries by introducing an automated and user-friendly book printer. This project provides users with the opportunity to print electronic books in physical form, making the reading experience more accessible and engaging.

Problems and Solutions: Challenges in Library Automation and Standardization Currently, most libraries operate with traditional methods, limiting the convenience for users. Finding or borrowing books can be challenging. The "Smart Library System" project aims to automate and standardize library services by equipping libraries with a digital database and smart printer. This specialized book printer allows users to print PDF or electronic books in hard copy, making library services more user-friendly and addressing the need for automation.

Low Book Usage Among Youth: Today's younger generation mostly relies on the internet and digital devices for information, reducing their interest in reading books. This can limit their learning opportunities. The "Smart Library System" project seeks to increase young people's interest in reading by attracting them through modern technology. The smart book printer is programmed with scientific and training books, allowing users to select specific sections and print them in a short time. This approach encourages young people to take an interest in reading. At the same time, through this project, not only the young generation, but also the entire society will expand their spirituality, become deep-minded, broad-minded, and adapt to the times through innovative devices.

Increasing the Popularity of Libraries: The significance of libraries is diminishing, which can impact cultural and intellectual growth. The "Smart Library System" project aims to enhance the social role of libraries. These specialized book printers will be installed in public spaces, universities, and shopping centers to attract more users. The printer is housed in a

booth with noise-reducing glass and a music system, creating a comfortable environment for users. This feature makes libraries more appealing and accessible to the public. The most important thing is that they easily pay for the book through their personal cards. Cards, book amount is withdrawn when approaching the special scanner button.

Practical Benefits and Technological Features of the System

1. **Printing and Summarizing PDF Books** The "Smart Library System" allows users to print electronic books they already own in hard copy. This printer also enables users to select specific parts of a book, making the information they need easily accessible. This is a significant innovation for modern library services.
2. **User-Friendly Interface** The smart book printer has an intuitive interface that is easy for users to navigate. By using simple buttons, users can select the desired book or document and print it in physical format. The printer is connected to a bot program, allowing users to upload and print PDF-format books.
3. **Installation Locations and Opportunities for Youth** This system is designed to be installed in busy public spaces, especially in universities, where it can be programmed with books related to specific fields of study. Students can easily print academic materials within a short time. This technology encourages young people to engage with new technologies and fosters a learning environment.

Conclusion. The "Smart Library System" project brings library services to a new level based on modern technology. The smart book printer automates library services, offering users a contemporary library experience. This project aims to boost young people's interest in reading and familiarizes them with new technology. Additionally, libraries contribute to social and intellectual development. By being installed in public places, this project encourages a love for reading, supporting the growth of a knowledgeable and cultured new generation.

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