

DIGITAL LIBRARY MANAGEMENT INFORMATION SYSTEM AT MADRASAH IBTIDAIYAH ALFAJAR PRINGSEWU IN AN EFFORT TO INCREASE STUDENT LITERACY

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Abstract

Study This aim for designing System Information Management Digital Library at Madrasah Ibtidaiyah Alfajar Pringsewu as effort increase literacy student. Research methods used is approach qualitative with steps research that includes analysis need system, design system with using the Unified Modeling Language (UML) model, and evaluation design. Data is collected through studies literature, interviews with staff library, as well observation to the management process library moment This. Research result show that design system information management customized digital library with needs of Madrasah Ibtidaiyah Alfajar Pringsewu can increase efficiency in management information, facilitating accessibility source power, and enrich experience Study student. Study This conclude that implementation system information governance management designed digital library in a way special can become step strategic in support effort increase literacy students at Madrasah Ibtidaiyah. System Information Digital Library, Madrasah Ibtidaiyah Alfajar Pringsewu can increase effectiveness system information governance management digital library in support effort increase literacy students and strengthen role library as center dynamic and inclusive learning.

Keywords: System Information, Digital Library, Enhancement Literacy, Students

I. INTRODUCTION

along with development technology information and communications (ICT) of course give Lots change to all aspect. Developing technology give Lots influence to life human, fine in work, social, or education. Development technology in the world of education bring up Lots innovation new For support education in the management and learning process in the 4.0 era. (Krisdiantoro, Rangkuti, & Maryani, 2022) (Sholihah, Meishanti, & Khafidhoh, 2023) In the middle development technology literacy No Again limited to capabilities reading and writing, but also includes understanding, analysis, and use digital information effective. In the middle current globalization and revolution Industry 4.0, important for institution education For adapt with fast to change This. (Santosa, Sukirman, & Subaidi, 2022) As stated in Law Number 20 of 2003 concerning National Education system “ National education works develop ability and form character as well as civilization dignified nation in frame enlighten life nation, aim For development potency participant educate to become a man of faith and piety to God Almighty, have morals noble, healthy, knowledgeable, capable, creative, independent, and become democratic citizens as well as responsible answer ". (Rahman & Hamdi, 2021) Madrasah Ibtidaiyah as institution Islamic education has not quite enough answer big in form a generation that is intelligent, critical and has moral integrity. One of possible efforts done for reach objective This is with increase literacy student through optimization system information governance management digital

library. Literacy read and write is knowledge and skills for reading, writing, searching, tracing, processing and understanding information for analyze, respond, and use text written for reach goal, develop understanding and potential, as well for participate in the environment social. Definition literacy read according to Clay in (S. A. M, 2018) is activity get message, and in a way flexible to use For solve problem. Definition the directed at code printer, language and response intentional visual perception directed by reading in a number of method integrated For dig meaning from signal in text, so reader can maximizing in understand message writer.

Data from the Central Statistics Agency (BSP) shows that amount Indonesia 's population in 2023 will be 278.69 million soul. But it's very unfortunate, p This compare backwards with amount interest read it. Reported From UNESCO data, only 0.001% of Indonesian people have it interest read. That matter This means, out of 1000 Indonesians, only 1 person likes and is active read. Additionally, based on survey conducted by the Program of International Student Assessment (PISA) in 2019, interest read Indonesia occupies ranked 62nd out of 70 countries. In other words, Indonesia entered in part 10 countries that have level literacy lowest among the countries surveyed. In an attempt enhancement interest read student digital library has a number of excess compared to with library traditional. More digital libraries economical costs, because No need room great physique. There are also more digital libraries easy-accessible, because can accessed from anywhere and anytime just. In addition, digital libraries are more-easy for updated, because his collection can added or updated in a way periodically. Digital libraries are one of the media that can used for increase literacy public. Digital libraries can give access to various source quality information, and can provide various service possible support help public For Study How use digital library online effective. Digital libraries are one of them available means used For build intelligent and knowledgeable society . Implementation digital library in effort enhancement literacy Once done by some researcher as done by (Krisdiantoro et al., 2022) Study This focus on improving the literacy programs carried out through planning library, provision collections and facilities library, gift service superior to readers, promotions libraries, and literacy programs consisting of from promotion library form description general management library in increase management library. (Mathar, Wardani, Musdalifah, Sari, & Zulkifli, 2021) study This focuses on improvement / maximization role library. Management library has fixed, start from spatial planning, arrangement collection Library, up to data collection membership library with print card member for all over students who are owner Actually library. Research conducted by Andika Saputra, et al (2022) (Saputra, Warisno, & Murtafiah, 2022) study This focused on architecture and depiction or the resulting model from the Enterprise Architecture Planning process will used as guide For making print blue in planning strategic System Information Management and technology information in a way overall at MA Nurul Ulum.

Research that has been carried out, focusing on improving literacy programs through management governance library as effort maximization role library. Meanwhile, in the research carried out focuses on utilization improving literacy programs students at the Ibtidaiyah madrasah through management governance library use digital technology. Novelty study This depends on the method used for repair governance management with utilise development technology system information, with consider need unique and the context of the madrasah as institution religious education. Madrasah Ibtidaiyah as institution Islamic education has not quite enough answer big in form a generation that is intelligent, critical and has moral integrity. One of possible efforts done for reach objective This is with increase literacy student through optimization library. Although library offer potency big in increase literacy, still there is a number of necessary problem overcome. Some of them is, management governance lacking library good, and limitations accessibility library that causes lack of interest student in read. The main purpose study This is for design and

implement system information governance management effective digital library in increase literacy students at Madrasah Ibtidaiyah Alfajar Pringsewu. With Thus, research This expected can give significant benefits, including increasing accessibility information, expand range learning, and improving quality education at Madrasah Ibtidaiyah Alfajar Pringsewu.

II. RESEARCH METHODS

Study This done with approach qualitative with type study studies case. This matter emphasized to use describe a *Digital Library* program carried out by Madrasah Ibtidaiyah Alfajar Pringsewu.

2.1 Data Collection Methods

data collection method is something important thing in research and is a strategy or methods used by researchers in collect the necessary data in his research. Data collection methods used in study This namely : (Manu & Tugil, 2020)

a. Observation

As for technique Data and information collection is carried out at the time studies field is observation directly (Observation) (Setyaningrum, 2022) that is data collection carried out with do observation directly to students and librarians at MI Alfajar Pringsewu.

b. Interview

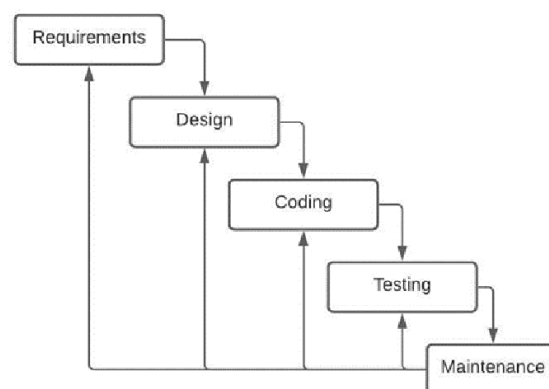
Held through submission question related moderate obstacles experienced at MI Alfajar, Management Governance as well as method increase interest student read. for know role library at MI Alfajar Pringsewu in increase literacy students and can add completeness of the data obtained from observation. Interview done with method do ask answer with students, teachers and librarians at MI Alfajar Pringsewu. (Fadhli, Indah, Widya, & Oktaviani, 2020)

c. Literature review

Literature review done with method read, quote and create notes based on ingredients supporting and related libraries with study. (M. Risa. M, Nurfadillah, & Zulfika, 2020) in matter This about application of digital libraries as effort increase literacy student

2.2 Development Method System

In stages This For develop system used Waterfall method. The waterfall method, namely kind policy expansion device soft sequentially during expansion device soft. (Meesters & Gordijn, 2015)



Picture 1. Waterfall Model (Muhamad Muslihudin, 2016)

Stages in the Waterfall Method is selected in study development this digital library because Lots study previous use method This Because each stages done in a way tiered (Mailasari & Sikumbang, 2019) . Deep waterfall stages study This focus on:

1. Requirement
At stage This is stages development purposeful system for understand hope user to device software and its limitations. Data can be obtained through interviews, discussions and observations. the data analyzed for get required information.
2. Design
In the design stage, the developer create a helpful system design determine condition device hard and helpful system determine architecture system in a way whole. Using UML models, namely context diagrams, Activity Diagrams, and Sequence Diagrams.
3. Implementation
Stage implementation This is the original system developed in small programs called units, which are then integrated at stage next. Each unit is developed and tested in a way functional. This is called as unit testing.
4. Testing
Stage testing inspect is system fulfil condition system in a way whole or part. This matter done for minimize errors and ensuring the resulting output in accordance with what was expected.
5. Maintenance
At stage maintenance is stage end from the waterfall model. Device software that has been finished will implemented and maintained. Maintenance covers repair error anything else found in step previously.

2.3 Research Flow

Research flow This used as guidelines in implementation study This is so that the results are achieved No deviate from goals that have been determined previously. Following This is channel research conducted.

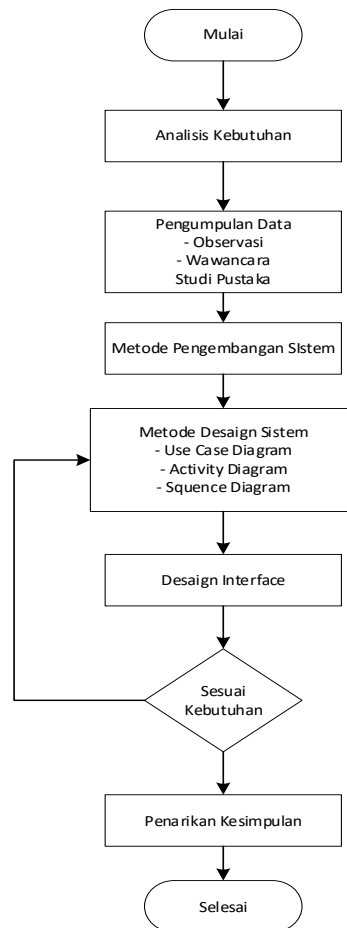


Figure 2. Research Flow

III. RESULTS AND DISCUSSION

3.1 System Design *Electronic Library*

Research result show that planning System Information Digital Library Management at Madrasah Ibtidaiyah Alfajar Pringsewu has succeed in increase accessibility information, efficiency management library, and experience Study student. Technology integration information in management library has bring change positive in matter processing and provision source Power information, as well increase involvement student in the learning process. Following is stages design smart complaint service system This.

1. Use Case Diagram

Describe interaction between actor with system in something system information. Show How actor use system for reach objective certain through series actions called " use cases".

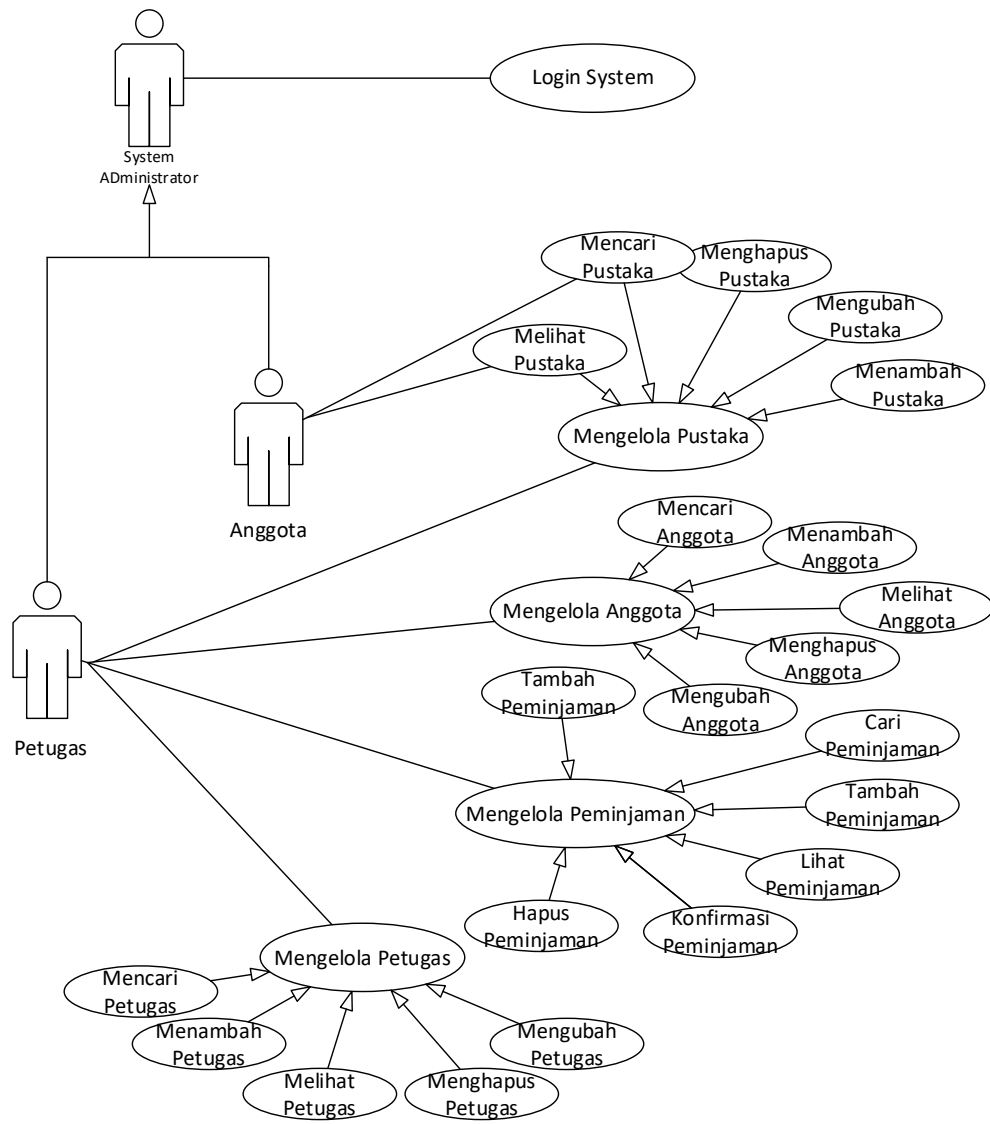


Figure 2. Use Case Diagram

Use case diagram above is a process of actor activity within system This is the inner actor usecase This is Officer Library, Members, and System Administrator.

2. Activity Diagrams

Activity Diagrams are design Genre activity or Genre Work in A the system will executed. Activity Diagrams are also used for define or grouping flow appearance from system the. Following This is description library input activity flow.

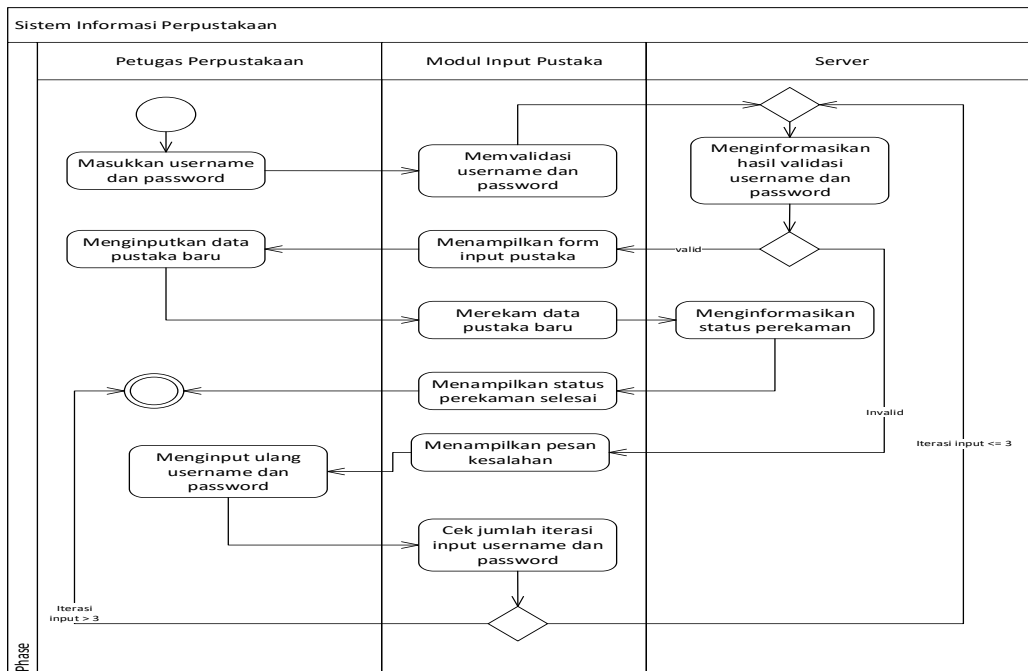


Figure 3. Library Input Activity Diagram

Draw the activity diagram above describe How is the library input process carried out by officer library.

3. Sequence Diagram

Sequence diagram or sequence diagram is a diagram is used for explain and show interaction between objects in A system in a way detailed. Apart from that, the sequence will also be diagrammed displays message or orders sent, along with time its implementation. Following This is picture sequence library input process diagram.

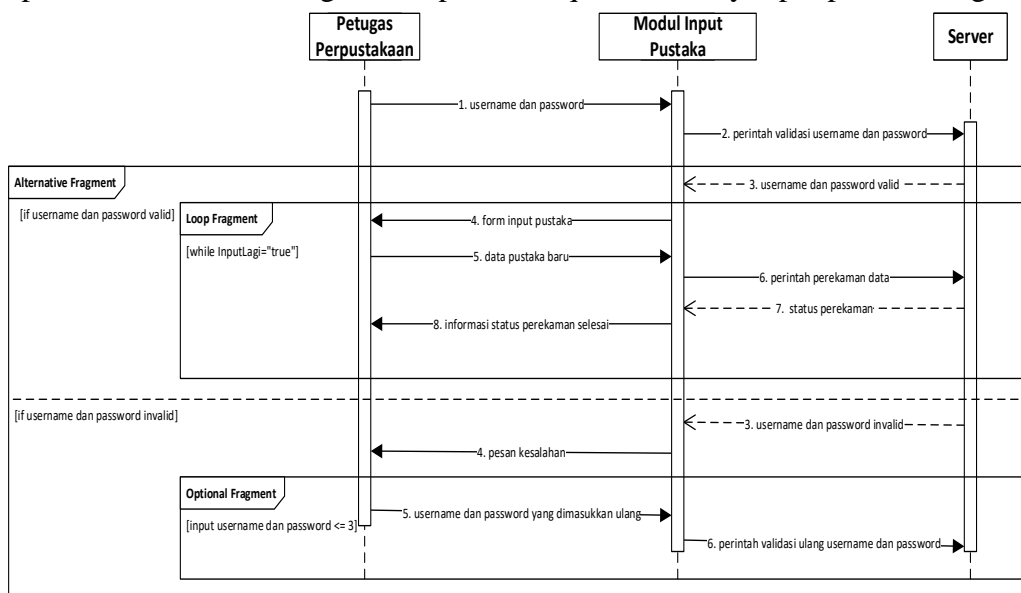


Figure 4. Sequence Diagram of the Library Input Process

Draw the sequence diagram above describe How is the library input process carried out by officer library.

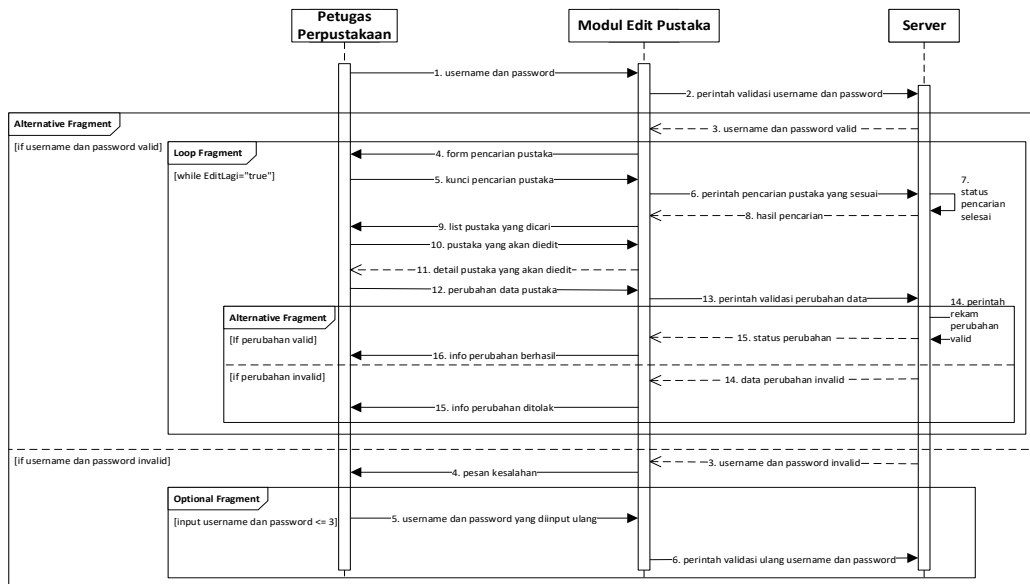


Figure 5. Sequence Diagram of the Library Editing Process

Draw the sequence diagram above describe What is the library editing process carried out by officer library.

3.2. Research result

Analysis results planning System Information Management Digital Library at Madrasah Ibtidaiyah Alfajar Pringsewu own implications important in increase literacy student. Application technology information in management library No only increase efficiency administrative, but also expanding accessibility and availability resource education for student (Aulia, Millah, Sani, Wahyudin, & Caturiasari, 2023)

1. Implementation system information governance management digital libraries have succeed increase accessibility student to source Power information. Student No Again limited access physique to library, but can access digital collection from anywhere and anytime just through device electronic they. This matter give chance for expand range study outside room class and facilitating learning independent.
2. System information management digital library brings change positive in matter efficiency management library. Borrowing, returning and searching processes source Power information become more-fast and easy done via digital platforms.
3. Technology integration in management library has create experience learn more interactive for student. This matter No only increase motivation Study students, but also help they develop Skills critical digital literacy.

With apply System Information Digital Library Management, Madrasah Ibtidaiyah Alfajar Pringsewu can Keep going increase effectiveness and support effort increase literacy student as well as can strengthen role library as center dynamic and inclusive learning.

3.3. Impact Implementation *Electronic Library* Regarding Students' Reading Interest

Implementation library electronics (*electronic library*) at Madrasah Ibtidaiyah own significant impact to interest read student. In context education basic Madrasah Ibtidaiyah, interest read is factor important thing that supports the learning process student. Following a number of impact possible positives happen from implementation library electronic to interest read student library electronic makes it easier student for access various type material reading without limitation time and place. This is very useful for possible students No own Lots access to library physique Because factor geographical or limitations source Power

statement This in line with results research conducted by (Athiyatul Muharromah Fajarwati, Cicik Syamsiyah, Dewi Irma Wulandari, Shenny Ratna Amelia Ali, 2022) .

With various available content in digital format, students can find material appropriate reading with interests and needs Study they. This includes book text, story child, material learning interactive, and resources visual power that can be enrich experience Study they. Use library electronic teach student for become familiar with digital technology. Skills This important No only For success academic they but also for preparation they facing an increasingly digital world (Rahmawati, Jannah, Ragil, & Atmojo, 2022). E-Library implementation can be done increase motivation and independence Study with features interactive and experiential interesting users in library electronic can increase motivation student for read. Convenience access and capabilities For choose material reading I also encourage myself independence and learning independent (Liana, Iskandar Wiryokusumo, 2021) . Library electronic often be equipped with possible features student for interact, such as discussion forums or room read together. This is possible student for share knowledge, discuss reading, and studying from Friend peer those who can increase interest reading and comprehension material. Library electronic can adapt with various style Study students, provide material in text, audio and visual formats. This is possible student For choose method most effective learning for them, improve comprehension and retention information.

IV. CONCLUSION

Based on research that has been done design and implementation System Information Digital Library Management at Madrasah Ibtidaiyah Alfajar Pringsewu has bring impact significant positive in effort increase literacy student. With use technology information as tool main, digital libraries have succeed overcome constraint accessibility physical and expanding range Study student. With use technology student can own more access easy and fast to source Power diverse information, which is not only enrich experience Study them, but also help they develop Skills critical and relevant literacy with the digital world. Additionally, implementation system This can increase efficiency management library with speed up the lending process and returns books, as well speed up the search process book. Experience Study students also become more interactive with exists recommendation material customized reading with interests and needs Study they. With apply with apply System Information Digital Library, Madrasah Ibtidaiyah Alfajar Pringsewu can increase effectiveness system information governance management digital library in support effort increase literacy students and strengthen role library as center dynamic and inclusive learning.

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