

**Scared of the Coronavirus Disease Covid-19 Risk? Avoid By Using an Online Fiqh
Learning Management System**



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Scared of the Coronavirus Disease Covid-19 Risk? Avoid By Using an Online Fiqh Learning Management System

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Abstract—The application of the learning management information system can be used in managing materials, assignments, and assessments properly. So it is expected that the material, assignments, and lesson assessments from students are not easily lost and can be read by students anywhere and anytime. However, this complexity in the learning process can be overcome by using a computer-based online learning management system. The purpose of this research is that teachers and students can carry out the online learning process. It can also be used in implementing health protocols, thereby reducing the rate of transmission of the COVID-19 coronavirus disease. This research is field research with the population of the academic community of Madrasah Ibtidaiyah Darul Ulum Jakarta, namely a principal, five teachers, thirty homeroom teachers, thirty students, and two administrative staff. The approach used in this research is to use descriptive analytic by conducting interviews and survey results in the form of a questionnaire. The Fiqh learning management system model provides convenience for the academic community. This model is used to implement health protocols to reduce the transmission rate of the COVID-19 coronavirus.

Keywords—Information Communication Technology, Management Information Systems, Online Fiqh Learning, Viruscorona Disease COVID-19

I. INTRODUCTION

Faisal, P. and Kisman, Z., 2020; Yindrizar, 2021 revealed that the development of information communication technology shows a very rapid development. The development of information communication technology can be used to assist educational institutions in the process of managing academic information services more accurately [1]; [2]. Sevima.com, 2020; Yindrizar, 2021 stated educational institutions require a fast, accurate and efficient academic service process so that they can accelerate the service process for academic activities [3]; [2]. The issue of the availability of accurate and error-free information is an important factor in assessing an educational institution. In addition, the availability of good and accurate information has become a necessity for all educational institutions. For this reason, it is necessary to manage academic information services that can accelerate the process of academic activity services accurately and efficiently in the form of computer-based electronic academic information service management, as in [3].

Kurniadi, D., and Mulyani, A. 2016; Sevima.com, 2020 inform the management of computer-based electronic academic information services will provide convenience in the process of academic services to all academics [4]; [3]. The management of computer-based electronic academic information services can be applied to the academic world, including at Madrasah Ibtidaiyah Darul Ulum Jakarta. Faisal, P., 2018; Faisal, 2019 added internally, the implementation of computer-based electronic academic information service management is expected to provide convenience for students, teachers, and all other academics, to obtain various academic information needed quickly, accurately, and efficiently directly from the computers they use. The application of academic information solutions with computer-based electronic academic information service management is a commitment to increasing the competitive advantage of its corporate customers in terms of efficiency, effectiveness, and performance [5]; [6].

Prihandoyo, M.T., 2018, Sevima.com, 2020 outline the process of managing academic information services can be understood as a data processing service that provides accurate information, organizes and manages administration in an orderly manner to make it easier for all academics to utilize academic information that has been presented by academics accurately and more efficiently. The process of managing academic information services that still relies on the use of books and paper for data

recapitulation has become a decision to utilize the computer-based electronic academic information service management process in the process of providing academic information services. The academic information system is an information system that was built to handle the management and presentation of academic data more easily. Users are all elements of the school including principals, teachers, staff, students, and guardians of students [7]; [3].

Madina.go.id, 2017 described the process of managing computer-based electronic academic information services must be used as widely as possible, in opening up opportunities for access, management, and utilization of academic information results quickly and accurately [8]. Kemenag, 2020; Mitapasirsakti, 2020 added the process of managing computer-based electronic academic information services can be utilized by educational institutions in general and Madrasah Ibtidaiyah Darul Ulum Jakarta in general in implementing health protocols to reduce the transmission rate of the Covid 19 virus or the Corona Pandemic [9]; [10].

Widyawati, 2020 stated the danger of the Covid 19 virus or the Corona Pandemic has become a disaster [11]. Sebayang, R., 2020; Ekarina, 2020 revealed the World Health Organization has categorized the coronavirus as a pandemic [12]; [13]. Kominfo, 2021; Limanseto, H., 2021 added the World Health Organization defines a pandemic as the worldwide spread of a new disease. With the development of the spread of the Covid 19 virus or Corona Pandemic, the Government of Indonesia urges all people to implement health protocols to reduce the rate of transmission of the Covid 19 virus or Corona Pandemic [14]; [15]. Mukaromah, V.F., 2020; Putsanra, D.V., 2020 informed one is reducing contact within the larger crowd or community, also known as social distancing. The policy step for implementing social distancing is a step that must be taken to reduce the rate of transmission of the Covid-19 virus or Corona Pandemic. The impact of social distancing is expected to be able to prevent, contain, or slow down the transmission of more COVID-19 viruses or the Corona Pandemic [16]; [17].

Adrian, K., 2020; CNN, 2020 explained that social Distancing is an important way to prevent the Covid-19 virus or Corona Pandemic. Social distancing is difficult to implement because basically, humans are social creatures who demand to interact with each other. Social distancing is implemented to prevent outbreaks or slow down the transmission of more COVID-19 viruses or the Corona Pandemic. In addition, social distancing is expected to reduce the rate and extent of the spread of the Covid 19 virus or Corona Pandemic in any city. Social distancing can be done by reducing crowds, not being in crowded places, and maintaining a distance of about two meters from other people, especially from those who show signs of illness. Canceling group events or closing public spaces, as well as individual decisions such as avoiding crowds [18]; [19].

Ihsanuddin, 2020; Kemkes, 2020 stated that the Indonesian government urges all people who carry out activities outside, such as work, study, and worship to be done at home. With this condition, we work from home, study and worship at home. However, online-based information and communication technology services are needed that can be used to assist the community in carrying out work from home activities and studying at home. This online-based information and communication technology service assistance is expected to maintain the quality of the process of working and studying at home [20]; [21].

The problem faced by end-users in the process of managing academic information services and the problem of this research is the process of managing academic information services which are still done conventionally and cause the data obtained to be inaccurate. The process of managing academic information services at Madrasah Ibtidaiyah Darul Ulum Jakarta still relies on the use of books and paper to recapitulate academic data. The process of managing academic information services at Madrasah Ibtidaiyah Darul Ulum Jakarta resulted in the slow delivery of information to the entire academic community so that academic information services became long, less accurate, and inefficient.

However, the complexity in the process of managing academic information services can be overcome by using a computer-based electronic academic information service management application program. This research study uses the help of the Java Programming Language and Microsoft Access Applications in the construction and development of computer-based electronic academic information service management so that all academics get accurate and more efficient information. This research is a type of field research, with the research population being the academic community of Madrasah Ibtidaiyah Darul Ulum Jakarta, to develop and manage academic information services at Madrasah Ibtidaiyah Darul Ulum Jakarta in a more organized and efficient manner.

This study aims to examine the management of the academic information service of Madrasah Ibtidaiyah Darul Ulum Jakarta so that all academics who interact with the academic information service of Madrasah Ibtidaiyah Darul Ulum Jakarta get academic information services that are easy, accurate, and more efficient to create the intelligent generations.

II. LITERATURE REVIEW

A. Academic Information Service Management

Irawan, I., 2018 informed that with the development of academic information systems in educational institutions, all services and information related to the academic process can be utilized more quickly and accurately. This condition will give more satisfaction to the academic community in terms of the service of the lecture process. Reducing errors that often arise from the use of previous academic information services that still use conventional methods, so that this is an added value from the development of academic information systems at the Universitas Pahlawan Tuanku Tambusai Riau [22].

Purwanto, R., 2017 describes that the development of an academic information system at SMP Negeri 2 Paguyangan can help academic management for the academic community. The development and implementation of an academic information system at SMP Negeri 2 Paguyangan can improve the effectiveness and efficiency of academic management. The new student registration process is done online. Teachers, students, and other academics can interact with the implementation of the academic information system at SMP Negeri 2 Paguyangan. The academic information system at SMP Negeri 2 Paguyangan can reduce operational costs (low cost) and be paperless [23].

Sulihati and Andriyani, 2016 explained that Universitas Tama Jagakarsa develops its academic data, with this development the academic community can easily obtain information related to lectures. This study resulted in an academic information system application that is used to access academic information on android-based online academic applications at Universitas Tama Jagakarsa [24].

Sevima.com, 2020 added that several functions of the academic information system for the academic community, among others, can facilitate the process of managing academic data. Can provide reporting on the teaching and learning process for teachers, students, and other academics. Can facilitate reporting to DIKBUD. Can simplify the registration process and payment for the learning process [3].

B. Create Intelligent Generations

Faisal, P., and Kisman, Z., 2020 revealed that the purpose of developing human resources is to form human resources with character, intelligence, cheerfulness, skill, and piety. Human resource development is also carried out as the basis for the formation of a complete human personality, which can meet the requirements of high professionalism, competence, and loyalty, in addition to having a noble human nature and upholding moral ideals in carrying out tasks. The obligation to serve the State and the Nation. Efforts to develop human resources can be done by increasing knowledge in the field of education. Increasing knowledge in the field of education is an effort to shape humans into creatures of character, intelligence, cheerfulness, skill, and piety [1]. Law (UU) No. 20 of 2003 mentioned It was added in the Law of the Republic of Indonesia Number 20 (2003) which stated the vision, mission, functions, and objectives of national education as well as the national education development strategy to realize quality education [25].

Hermanto, B., 2020 stated that National education aims to develop capabilities and shape the character and civilization of a dignified nation to participate in the intellectual life of the nation. National education also aims to develop the potential of students to become human beings who believe and fear God Almighty, have a noble character, are healthy, knowledgeable, capable, creative, independent, and become democratic and responsible citizens [26].

C. Madrasah Ibtidaiyah Darul Ulum

Kemendikbud, 2021 stated that Madrasah Ibtidaiyah Darul Ulum Jakarta has NPSN 60706494 which is located at Jl. Kemanggisan Ilir VI RT. 002 RW. 013, Kemanggisan, Palmerah District, West Jakarta. Under the auspices of the Ministry of Religion number SK. Establishment of KW.09.4/4/KP.07//1306/2012 dated 2011-04-11, number SK. MI TPI Darul Ulum Operation [27].

Based on the problems that exist in Madrasah Ibtidaiyah Darul Ulum Jakarta and based on the results of previous studies related, the originality of the research gap in this study is the development of academic information service management, for Madrasah Ibtidaiyah Darul Ulum Jakarta to create the intelligent generations.

III. RESEARCH METHODS

Starting with observing the implementation process of managing academic information services at Madrasah Ibtidaiyah Darul Ulum Jakarta which is done conventionally. This research is continued in the next stage, which is to describe the management of online academic information services by creating

features that support the management of online academic information services. The research is continued by looking for supporting data that is relevant to the research. Next is the process of developing the management of academic information services for Madrasah Ibtidaiyah Darul Ulum Jakarta online. The final step that will be carried out in the process of testing the academic information service management model at Madrasah Ibtidaiyah Darul Ulum Jakarta using BlackBox testing.

The approach used in this research is to use descriptive analytic by conducting interviews and survey results in the form of a questionnaire. This approach is used to describe the current conditions of conventional management of the academic information service of Madrasah Ibtidaiyah Darul Ulum Jakarta, and analysis of the development of the management of academic information services of Madrasah Ibtidaiyah Darul Ulum Jakarta which will be carried out online, which is expected to assist the Government of the Republic of Indonesia in providing a good education for the nation's successors to create an intelligent generation.

A. Units

While the process of searching for data sources in this study was carried out at the Madrasah Ibtidaiyah Darul Ulum which is located at Jl. Kemanggisan Ilir VI RT. 002 RW. 013, Kemanggisan, Palmerah District, West Jakarta.

B. Roadmap

The roadmap in this study is shown in the table below.

TABLE I. TABLE TYPE STYLES

Stage	Description
Field observation	Input: Conduct surveys, interviews, and discussions with expert respondents.
	Purpose: To get an overview of academic information services.
	Method: Focus group discussion with expert respondents.
	Output: Analysis of academic information services for Madrasah Ibtidaiyah Darul Ulum.
Description of academic information services	Feedback: Conduct surveys, interviews, and discussions with expert respondents to get ideas.
	Objective: Determine the features that will be used in the academic information service process.
	Method: Focus group discussion with expert respondents.
	Output: Description of the academic information service of Madrasah Ibtidaiyah Darul Ulum.
Support data search	Input: Secondary data through various media such as the internet, literature books, and scientific journals as well as supporting articles.
	Objective: To produce quality research.
	Methods: Reading literature books and scientific journals as well as supporting articles.
	Output: Literature books and scientific journals as well as supporting articles, as a list of references.
Development of academic information service model	Feedback: Theories that support model analysis and development of academic information services.
	Goal: Get the expected model development.
	Method: Focus group discussion with expert respondents.
	Output: Model of academic information service for Madrasah Ibtidaiyah Darul Ulum.
Testing the academic information service model	Input: Analysis of testing the academic information service model.
	Goal: Get a tested model.
	Method: Focus group discussion with expert respondents.
	Output: Testing the academic information service model of Madrasah Ibtidaiyah Darul Ulum.

Furthermore, secondary data was searched in the field through various media, such as articles on the internet, literature books, and journals to obtain accurate information about research studies. In addition, the research process in this study uses data flow diagrams as an instrument and research design.

Based on the results of interviews with expert respondents regarding the information and data needed in this academic information service management research study, the analysis process was carried out. Furthermore, the information and data obtained are processed to obtain results in the form of strategic steps that must be taken for model development to testing the academic information service management model.

IV. RESULTS AND DISCUSSIONS

The following is a description of the results of the analysis and interpretation of data services from the interview process with expert respondents regarding the process of managing academic information at Madrasah Ibtidaiyah Darul Ulum. The academics involved included a principal, five teachers, thirty homeroom teachers, thirty students, and two Tata Usaha staff (TU). The development of the management of academic information services at Madrasah Ibtidaiyah Darul Ulum is carried out by computerization and integration with each other to facilitate the process of searching for data, viewing grades, and subject schedules.

A. Data Flow Diagram

The development of academic information service management in this study can be seen in the following data flow diagram.

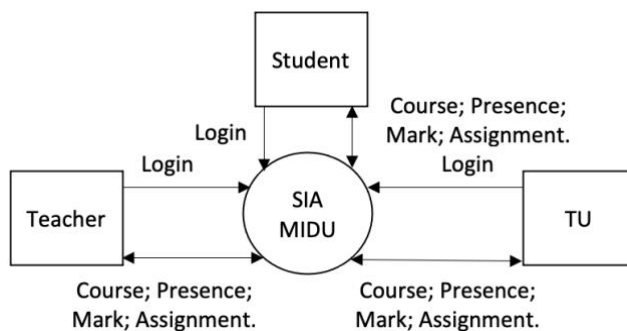


Fig. 1. Research Data Flow Diagram

The data flow diagram in figure 1 above describes the process of managing academic information services at the Madrasah Ibtidaiyah Darul Ulum institution. The first academic community is the teacher, who can set grades, make changes, and can delete them in the academic information service. The second academic community is all TU staff, who can check or checkmark, input, edit and delete marks if something is missing, forgets, or makes a mistake in giving marks. After the teacher who carries out the assessment process becomes a model in the management of academic information services at the Madrasah Ibtidaiyah Darul Ulum institution. Then the new TU staff can see the value that has been entered and can re-check it. Furthermore, TU staff will provide information to students so that their marks can be known. The third academic community is students, who can check or check marks and print them.

The development of a user interface model or user interface for the management of academic information services can be seen in the following description. To enter the user interface model or user interface, the user must log in with a valid UserID and Password.

B. Student Page

The following is a model of the Student page view.

Hi A

Student

Course

Mark

CourseID	CourseName	Day_Hour	ClassID
IV005	Qur'an	Tue_10.00-11.00	4A

Assignment

Logout

Fig. 2. Student Page View

Figure 2 above illustrates the interface or user interface of the student page. Students can view their course schedule, assignments, and marks.

C. Teacher Page

The following is a model of the Teacher page view.

Hi Mr. FP

Teacher

Course

Mark

CourseID	CourseName	Day_Hour	ClassID
IV005	Qur'an	Tue_10.00-11.00	4A

Assignment

Logout

Fig. 3. Teacher Page View

Figure 3 above illustrates the interface or user interface of the teacher page. Teachers can view their course schedule, assignments, and marks.

D. Course page

The following is a model of the Course page view.

COURSE

CourseID

CourseName

Day_Hour

ClassID

CourseID	CourseName	Day_Hour	ClassID
IV005	Qur'an	Tue_10.00-11.00	4A

Save

Update

Delete

Back

Fig. 4. Course Page View

Figure 4 above depicts the user interface or user interface of the course page. On this course page, TU staff can view and display class schedules and enter class schedules so that students can see the schedule of courses taken.

E. Mark page

The following is a model of the Mark page view.

MARK

Grading

StudentName	CourseName	Assignment	Mid	Final	Grade	Note	CourseID
A	Qur'an	80	80	80	B	Good	IV005

Save

Update

Delete

Back

Fig. 5. Mark Page View

Figure 5 above describes the user interface or user interface mark page so that teachers can enter the mark of each subject so that it can be seen and used by students.

F. Testing

The results of the test scenario and the test results of the academic information service management model can be seen in the following table.

TABLE II. RESEARCH MODEL TESTING

Testing Scenario	Expected Results	Test Results	Conclusion
Pressing Items on Students	Successfully Displays Courses, Grades, Assignments, Logout	As Expected	Valid
Pressing Items in Teacher	Successfully Displays Courses, Grades, Assignments, Logout	As Expected	Valid
Clicking on an item in the course	Successfully displays CourseID, CourseName, Day_Hour, ClassID, Save, Update, Delete, Back	As Expected	Valid
Pressing Item in Mark	Successfully Displays Grading, ClassID, Save, Update, Delete, Back	As Expected	Valid

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