

## Website-Based E-Library Of The Yellow Book

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Article Info :	ABSTRACT
<p>Article History :</p> <p>Received :</p> <p>25 July 2022</p> <p>Revised :</p> <p>19 Nov 2022</p> <p>Accepted :</p> <p>15 Dec 2022</p> <p>Available Online :</p> <p>22 Dec 2022</p> <p><b>Keyword :</b></p> <p>Codeigniter, E-library, Yellow Book.</p>	<p><i>The yellow book is one of several media for learning about good Islamic religious knowledge and needs to be studied by Muslims. However, only Islamic boarding school students can study the book. This is due to the difficulty in learning it independently, especially for ordinary people who lack or have not mastered Arabic. Besides that, the book is only available in the form of a book that is easily damaged and difficult to carry anywhere. From this subject, this research focuses on making a web-based book library application with Indonesian translation. The method used is Waterfall. This method has the analysis stage: an observation of the existing system. The design stage: making a flowchart and DFD design, the coding stage, and the testing stage. The results obtained are the web-based yellow book library application that can make it easier for Muslims to study the yellow book daily because this application has access to material in the form of the yellow book along with the audiobook in Arabic and a video link for studying the yellow book.</i></p>

### 1. INTRODUCTION

The yellow book, one of the most frequently studied, namely Kitab al Hikam, contains the teachings of Sufism which are so broad and deep that this book is used as a guide by the followers of the Sufi path (Salik) to Mahabbah Divine. Al Hikam's teachings are the teachings of Sufism which combine Akhlaqi Sufism, Amali Sufism, and Philosophical Sufism (Khalim, 2011). The study of the yellow book is not only to obtain theoretical knowledge but also to obtain knowledge that can be practiced in real life.

In the current millennial era, global culture which tends to be hedonistic, materialistic, pragmatic and secularistic has influenced today's society. In such a society, moral values, noble character, spirituality, and manners are increasingly being ignored and marginalized. Currently, what is becoming the trend is not only things that bring goodness but also lead to moral declines, such as unlimited association, indulgence in lust, insulting each other, spreading hatred, and slandering. In this case, by practicing the contents of the yellow book, people can understand moral values, noble character, or good things from the contents of the yellow book.

The yellow book is a good thing and should be studied by Muslims. However, only students can learn the yellow book, which is only studied in Islamic boarding schools, and people who want to study the yellow book find it difficult to learn it because there needs to be a teacher to

teach it. Moreover, the book is only available in the form of a book that is easily damaged and costs money to buy it.

E-Library is a library with a collection of books where most of the collections are in digital format and can be accessed by a computer. A digital library can also be interpreted as a system that has various services and information objects that support access to these information objects through digital devices so that these collections can be used by certain communities or selected communities economically and easily (Kairil, 2012).

In connection with the problems that occur and to facilitate learning the yellow book, it is necessary to make a web-based book library application that makes it easy for users to understand the yellow book. Because in the application, there is translation and application in everyday life. In addition, the application minimizes funds, and it is very effective.

## 2. METHOD

The method in this study uses a qualitative descriptive method where the development of the system used is a waterfall system from the top to the sequentially downward stages (Hidayati, 2019), as shown below:

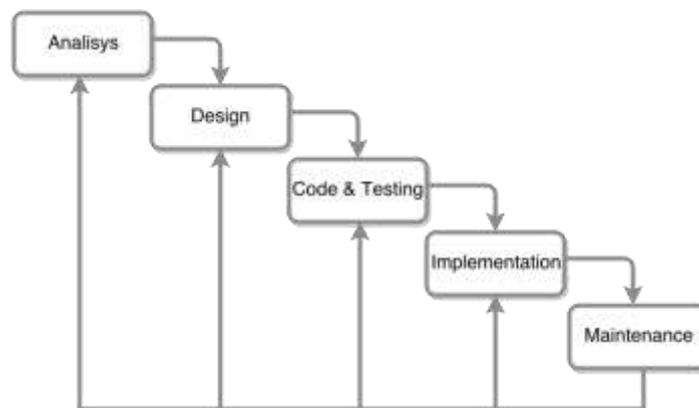


Figure 1. Waterfall Method Flow

The picture above it can be described as the points mentioned below regarding what must be done, namely:

a. System Analysis Stage

At this stage, the researcher conducted a literature study and observed the pre-existing system by reading several journals and looking for information on the internet.

b. Design Stage

The system design designed in this research is to make a Flowchart Design for System Design and Database Design.

c. Coding stage

This application was built with the CodeIgniter Framework using the PHP programming language for code implementation and editing using the Sublime Text editor tool. The Codeigniter framework is used because it contains a package of functions commonly used in making applications. Some standard functions common in a framework include email, paging, calendar, date, language, file upload, session, form validation, table, image manipulation, text, string, captcha, encryption, protection against XSS, security, and others. These functions can be used immediately by calling them in the program; how to call them depends on the framework used. So, programmers can make these functions from scratch (Irawan, 2017).

#### d. Testing Stage

At this stage, testing of compatibility and system functionality is carried out to review whether the application is running according to the concept and plan. In the process of testing, the researchers used the Black Box method.

### 3. DEVELOPMENT PROCEDURE

Making the yellow book library application through several procedures, which include (Faizaty, 2010):

#### a. App design

The design of application design in this study is to make a system flowchart that matches the data obtained and make the UI design of the application. Moreover, the results for the system flowchart in this application are the input flowchart of the book's contents.

#### b. Application design

##### 1) DFD

Data flow diagrams (DFD) in the field of information systems are a form of illustration of the flow of a system. This diagram was popularized by Ed Yourdon and Larry Constantine in the late 1970s in their book entitled Structured Design. The DFD design for the E-Library application is as follows:

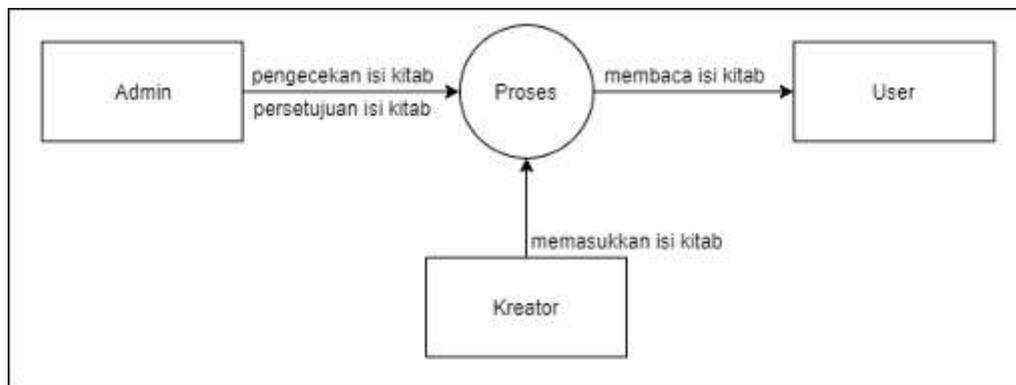


Figure 2. DFD E-Library

Based on the diagram above, in this system, there are admins, creators, and users who have different tasks. The admin performs the task of checking and approving the book's contents inputted by the creator. Then the creator is in charge of entering the contents of the book. Then the user reads the contents of the book.

##### 2) Flowcharts

A flowchart is a graphical representation of the flow of a process or system. flowcharts use special symbols to represent steps, decisions, operations, or information flow in a program or procedure. Flowcharts help to visualize and systematically understand the steps of a process or algorithm. Processes or systems are represented graphically by flowcharts. A flowchart represents steps, decisions, operations, or information flow in a program. Flowcharts help visualize and understand a process or algorithm systematically. We will build an e-library as shown in the following flowchart

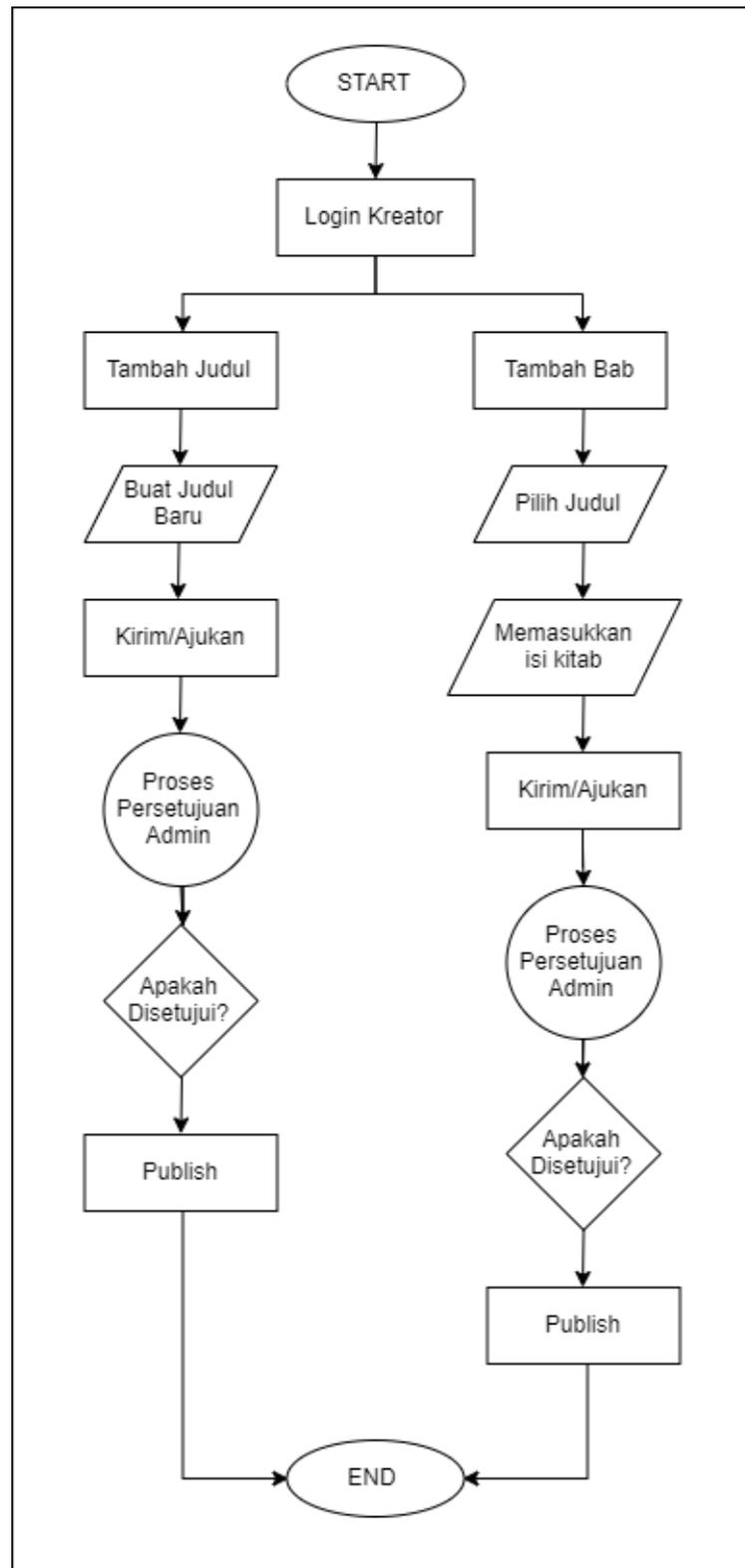


Figure 3. Book contents input flowchart

The flowchart above explains that there is a process for inputting the contents of book data. That starts with logging in as a creator. Next, the creator creates a new example title, in this case, al hikam. Then the title is submitted to the admin to assess its feasibility. To become an

admin, you must have criteria, namely understanding computer operation, then understanding the content of the yellow book, and being careful in reviewing the book library application.

If the title is approved, the title will be published. Moreover, if rejected, the creator can submit a new title that is more appropriate. After the title has been published, creators can create new chapters/rules. In this process, the creator creates chapters according to the selected title. Furthermore, chapters that have been filled in can be submitted to the admin to assess their feasibility and review. If the chapter is approved, it will be published and can be read by users. Furthermore, the creator can correct the chapter and submit it back to the admin if rejected.

#### 4. RESULTS AND ANALYSIS

The result of this research is a digital library application that makes it easier for readers to study the Yellow Book in everyday life with the translation. This application makes it easy for users to access studying the Yellow Book via hardware (computer) anytime and anywhere. This digital library application provides access to yellow book material obtained from books and the internet along with audiobooks in Arabic and video links for yellow book recitations. The video link is obtained from the recitation video on YouTube.

The application is accessed by opening the link on the website. After the start page appears, users can access the book by selecting the read book menu in the navbar.

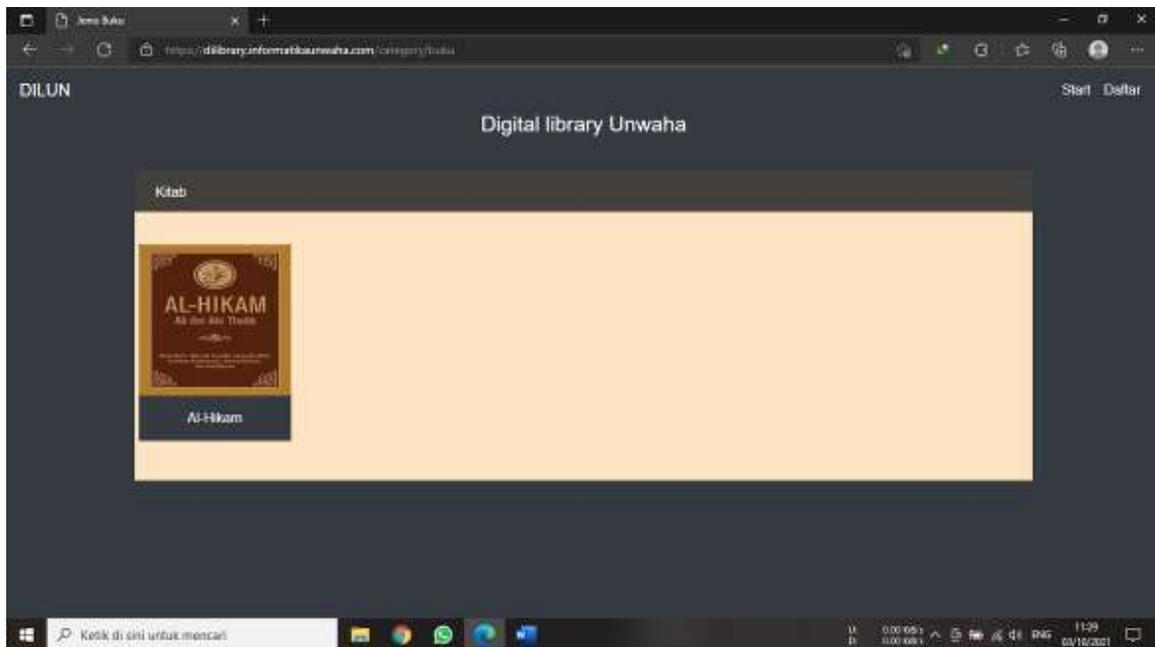


Figure 4. user Page

The user page shown in Figure 4 contains a register button for adding books to the digital library, a Start button for returning to the home page, and a selection of books/books that can be accessed/read.

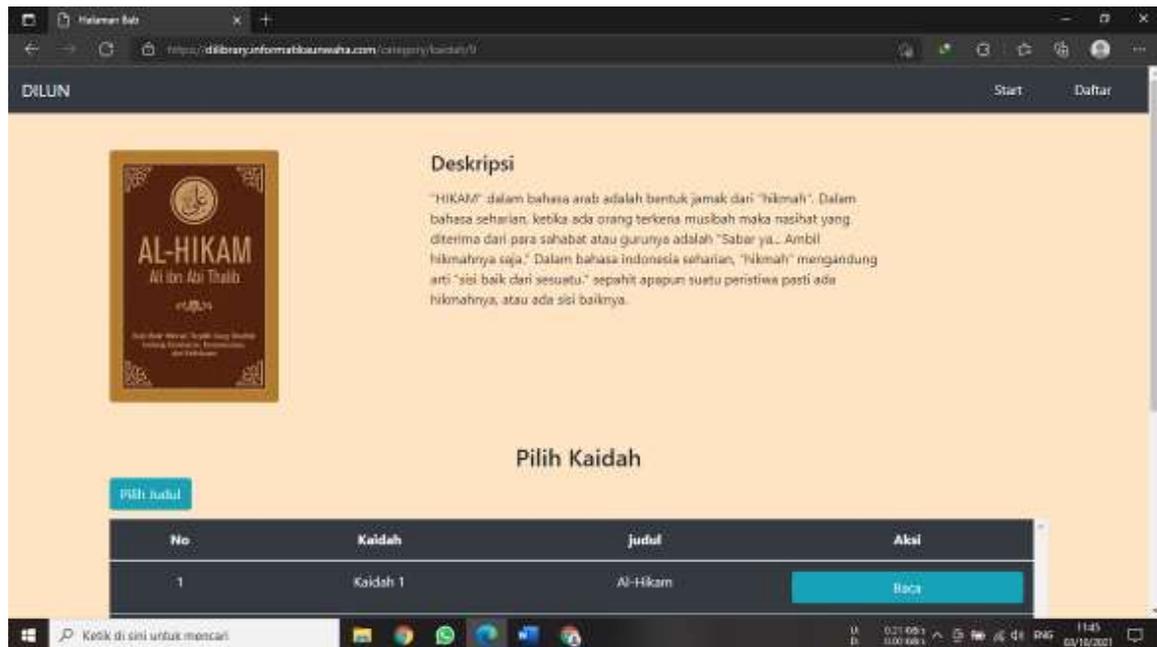


Figure 5. Book chapter page

Then the book chapter page is a page that contains chapters from the book. Which contains a description and list of rules from the book. Then the user will enter the contents page which allows the user to read directly (Figure 6)

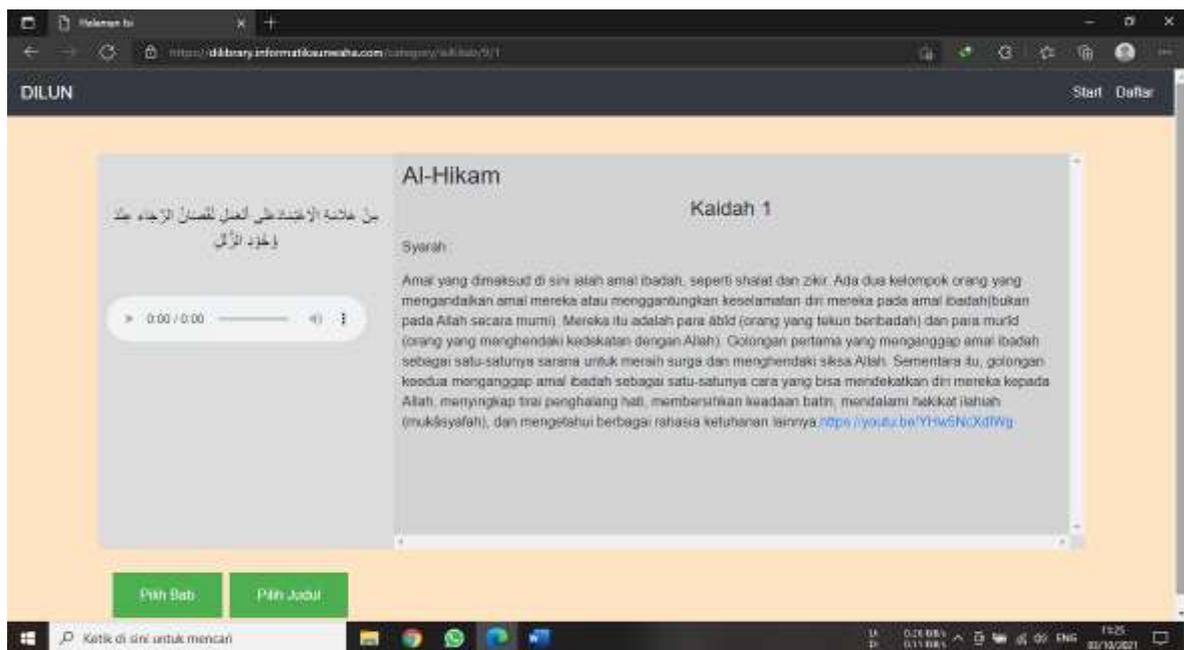


Figure 6. Contents page

The image above shows a contents page containing yellow book material such as Arabic writing, and then below there is audio from Arabic. Then next to it is the meaning and explanation of Arabic in everyday life. Then there is a YouTube video link in the form of an explanation of the book in the form of recitations from scholars. The YouTube video link is at the end of the Arabic explanation.

## 5. CONCLUSION

The web-based Yellow Book library application was created to make it easier for Muslims to study the Yellow Book daily. The design of this application was made using DFD and flowcharts. The coding of this application was built with the CodeIgniter Framework and uses the PHP programming language in terms of code implementation and editing using the Sublime Text editor tool. This application can make it easier for people to study the Yellow Book because this application has access to Yellow Book material along with audio of the book in Arabic and video links for Yellow Book recitations.

## 6. ACKNOWLEDGEMENTS

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## 7. DECLARATION OF COMPETING INTEREST

We declare that we have no conflict of interest.

## 8. REFERENCES

- Faizaty, Aldina Prastya. 2010. "Analisis dan perancangan sistem informasi sirkulasi pada perpustakaan Sekolah Dasar Islam Al Azhar 31 Yogyakarta" dalam *Skripsi*. Jurusan Teknik Informatika Sekolah Tinggi Manajemen Informatika Dan Komputer Amikom Yogyakarta.
- Irawan, Rio. Sulistyowati. 2017. "Implementasi framework codeigniter untuk pengembangan website pada dinas perkebunan provinsi Kalimantan Tengah" dalam *Jurnal Saintekom*, Vol.7, No.1.
- Khairil. Dimas Aulia Trianggana. dan Yupianti. 2012. "Pembuatan e-library Madrasah Aliyah Negeri (MAN) Arga Makmur menggunakan macromedia dreamweaver 8" dalam *Jurnal Media Infortama*. Vo.8 No.2.
- Khalim, Samidi. 2011. "Aplikasi kitab Al Hikam di pondok pesantren Bi Ba'a Fadlrah Turen, Malang, Jawa Timur" dalam *Jurnal Analisa* Volume XVIII, No. 01.
- Nur, Hidayati. 2019. "Penggunaan metode waterfall dalam rancang bangun sistem informasi penjualan" dalam *Generation Journal*. Vol.3 No. 1. E-ISSN: 2549-2233/ p-ISSN: 2580-4952.