# JEME-01-01-Hani

*By* Hani Supriati

Designing A Web-Based Credit Application Information System (Study at One of The Sharia Financial Institutions in Bandung)

#### Abstract

In today's technological developments, the role of Internet media must be addressed. The ease of doing online activities certainly must be connected to the critical role of websites in it. One of the benefits of applying the Internet in the banking sector is simplifying work processes such as processing data for credit applications. The system being used to process data at one of the Sharia financial institutions in Bandung still needs to be better organized, so it is less effective and efficient, less accurate, or errors often occur, and also takes up much space for customer documents. Therefore, the author is interested in building a system expected to overcome the problems faced by one of the Sharia financial institutions in Bandung. This system was formulated as "Designing a Web-Based Credit Application Information System (Study at one of the Sharia financial institutions in Bandung)." The method the author uses is a qualitative descriptive method. The system development method that the author uses is the object-oriented method, namely OOSE. The author used PHP, MySQL, and XAMPP as tools to create this website. The results of this accounting information system application research can help simplify data processing at one of the Sharia financial institutions in Bandung that has been running so far.

**Keywords:** *Credit, OOSE, Website, PHP, MySQL, and XAMPP* 

#### Introduction

A financial institution is a forum with services for managing finances for specific purposes. The role of financial is titutions in life, especially banks, is vital. (Musti & Baporikar, 2023) As the large Muslim country in the world, the need for banks that carry out their activities based on Sharia principles is essential, namely the rules of agreements based on Islamic law between banks and other parties for depositing funds and financing business activities or other activities that are declared to be following sharia. (Shuja et al., 2023) In carrying out their business, Islamic banks use a profit-sharing pattern, the primary basis for all their operations in funding, financing, and other products. (Ardalan et al., 2019; Jääskeläinen et al., 2022) Islamic bank products are similar but different from conventional ones because of the prohibition of usury, gharar, and maysir. Therefore, funding and financing products in Islamic banks must avoid these prohibited elements. (Khalequzzaman et al., 2023; Xu & Du, 2022)

The public's need for sharia banking institutions is relatively high. To meet the needs of the community, it is possible to establish sharia banks in the national banking system. (Adel & Younis, 2021) The existence of one of the Sharia financial institutions in Bandung is intended to be able to provide banking services quickly, easily, and simply to the community, mainly medium, small, and micro-entrepreneurs in both rural and urban areas whom public banking services have treached. at one of the sharia financial institutions in Bandung, as a public trust institution whose business activities are based on sharia principles, it is hoped that it can carry out the mandate of the fund owners by channeling it into productive businesses in order to improve people's living standards. (Shin et al., 2023; Shoeb & Rahman, 2020)

In today's technological developments, the role of Internet media must be addressed. Almost all activities are made more accessible through Internet media. (De Sarkar, 2022; Sabar Rudiarto et al., 2022) The ease of activities via Internet media must be distinct from the critical role of websites. Internet applications can be made in government, health, education, industry, and even banking. (Anthony Jnr. et al., 2019) One of its

beneficial impacts in the banking sector is facilitating specific work processes, such as data processing for credit applications or requests. (Haolina et al., 2020; Ritchi et al., 2019)

One of the products offered at one of the Sharia financial institutions in Bandung is a business credit intended for individuals, small/micro businesses, and large businesses. (Asemi et al., 2021) One of the Sharia financial institutions in Bandung still needs to have a structured credit application system. Submissions are semi-computerized using Microsoft Excel, thus hampering the performance of one of the Sharia financial institutions in Bandung. This condition causes a slow exchange of information and losses due to errors in recording credit applications at one of the Sharia financial institutions in Bandung. (Chen et al., 2022; Zhang et al., 2021)

This condition can be overcome by a web-based credit application information system so that recording credit applications and calculations can be more effective and efficient so that they can be well documented. Because one of the Sharia financial institutions in Bandung still uses semicomputerization, the author is interested in taking the title in writing this final assignment, "Design of A Web-Based Credit Application Information System (Study At One Of The Sharia Financial Institutions In Bandung)."

### Research Method

The research method used in writing this final assignment is descriptive research. Descriptive research is research carried out to describe one or more variables without the need to compare or vary the relationships between variables. In this regard, this research uses the following data and information collection techniques: literature study, field study, observation techniques, and interview techniques.

In carrying out this research, designing a Web-Based Credit Application Information System (Study at one of the Sharia financial institutions in Bandung) used an object-oriented system development method, namely the OOSE (Object-Oriented et al.) method. According to (Putra, 2018), OOSE (Object-Oriented et al.) is a development method for

building and validating application domain models or object-oriented systems. The Object-Oriented Software Engineering methodology emphasizes using secases and software design.

Methods that contain elements from other Object Oriented. This method puts more emphasis on use cases. OOSE has three stages: creating requirements models and analysis, design and implementation, and model testing. The advantage of this method is that it is easy to learn because it has simple notation, covering all stages of software engineering.

### Results and Discussion

After the system has been analyzed and designed in detail, it will move to the implementation stage per implementation is the stage of placing the system to be ready to operate. The implementation aims to confirm the design modules so that users can provide input to the system builder. The recommended implementation scope includes software and hardware environments. The need for application design is the principal capital so that the design is by the previously built targets.

Software is a system support tool consisting of an operating system and database applications. The software used by the author in making this web-based application is as follows:

- 1. Windows 10 Operating System.
- 2. XAMPP Control Panel v3.2.1 as a local server.
- 3. MySQL as database.
- 4. PHP is a programming language for formulating programs.

Apart from software, authors also need hardware to run some software. The hardware specifications required to run this application are as follows:

- 1. PC/Laptop
- 2. Intel Processor (2.16 Ghz)

- 3. 15" monitor
- 4. Mouse
- 5. Keyboards

Brainware is one of the essential components in implementing a system and is usually in the form of human objects as the implementing staff consisting of:

- Applicant, namely the person with access to the credit application process.
- 2. Admin, the person in charge of operating the system and entering, changing, or deleting data.

PHP is open source because the PHP open source code is available for free; this allows the developer community to continually make improvements, develop, and find bugs in the PHP language. Open source means we do not need to depend on a particular company (e.g., Windows to Microsoft) to release the next version if something needs to be fixed. We also do not have to pay purchase and upgrade costs, which are usually quite expensive.

Stability and compatibility. PHP runs stably on various operating systems such as UNIX (including Linux), Windows, and Macs. PHP integrates well with various web servers, including the most popular IIS and Apache.

PHP is also equipped with various other supports, such as direct support for various popular databases, an extensible architecture, and a processor that uses minimal resources on our computer compared to its competitors and can also display web pages quickly.

It is also important to remember that PHP's advantages may change over time because each program will try to improve its performance.

System testing is a process to find out where the deficiencies in the system are and whether they are by what was described in the previous

design. Testing of this system is carried out carefully so that the results obtained can benefit users.

In the operation of application programs, changes to the application often occur or even damage. This result can happen due to an error in the operation of the program or a request from the user, and Maintenance basically must always be there, of course, adjusted to the environment where the program is used, to maintain the stability and balance of the program which can produce the information needed by the user.

Programming is an activity that supports implementing a new system because a good and structured program can produce information according to needs. Before the program is implemented, it must first be tested to be free from errors that may occur. This testing can be carried out for each program module, followed by testing all modules to ensure that all modules are integrated properly and correctly. This section describes the appearance of the application program, which is designed according to the design made at the system design stage. From the existing system design, the author divides it into several display forms. The database used is MySQL. Here are screen captures of the database implementation:

### 1. Table Admin

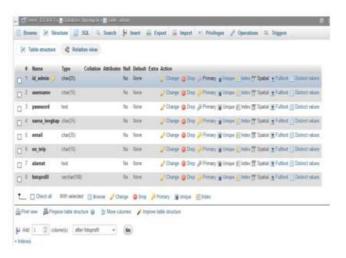


Figure 1. Admin Table

### 2. Application Table



Figure 2. Application Table

### 3. File Desk

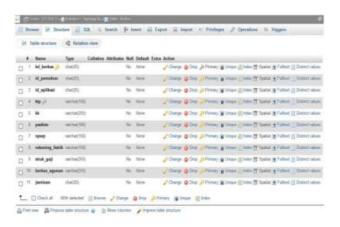


Figure 3. File Table

### 4. Guest Book Table

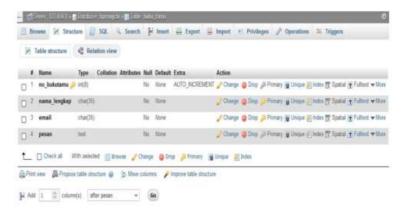


Figure 4. Guest book table

### 5. Category Table



Figure 5. Category Table

### 6. Credit Table

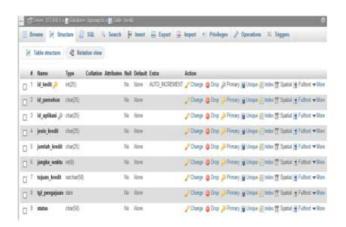


Figure 6. Credit Table

### 7. Applicant's Desk

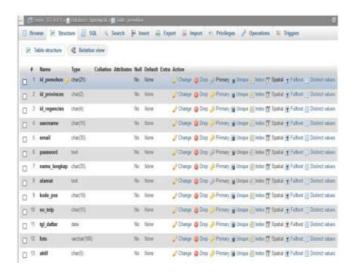


Figure 7. Applicant Table

### 8. Message Desk

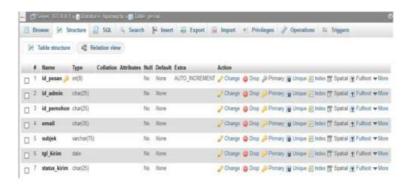


Figure 8. Message Table

### 9. Product Table



Figure 9. Product Table

#### 10. Provincial Table



Figure 10. Provincial Table

### 11. District Table



Figure 11. District Table

The following is the appearance of the Web-Based Credit Application Information System program at BPRS Al-Ihsan:

### 1. Login Form



Figure 12. Applicant Login Form

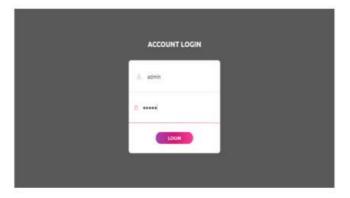


Figure 13. Admin Login Form

### 2. Home Appearance



Figure 14. View of the Applicant's House



Figure 15. Home Admin display

### 3. About Us Menu Display



Figure 16. Vision and Mission Display



Figure 17. Organizational Structure Display

4. Contact Us display



Figure 18. Contact Us display

5. Submission Procedure Display



Figure 19. Display of Submission Requirements



Figure 20. Submission Flow Display

### 6. Account List View



Figure 21. Account List Display

### 7. Submission Form Display



Figure 22. Personal Data Form Display



Figure 23. Display of Company Data Form



Figure 24. Display of Credit Application Data Form

### 8. Upload Data View

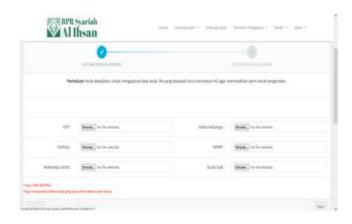


Figure 25. Display of Personal File Upload Form

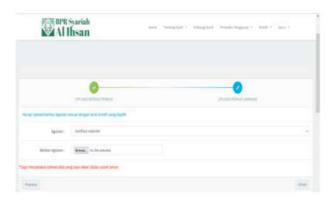


Figure 26. Display of the Guarantee File Upload Form

# 9. Credit Simulation Display



Figure 27. Credit Simulation Display

### 10. Guestbook View



Figure 28. Guestbook display

### 11. Applicant File Data Display



Figure 29. Applicant File Data

### 12. Admin List Data Display



Figure 30. Admin List Data

### 13. Display of Credit Application Data



Figure 31. Credit Application Data Display

### 14. Applicant Data Display



Figure 32. Applicant Data Display

### 15. Send Message View



Figure 33. Send Message Display

### Conclusion

Based on the discussion of research regarding the Credit Application Information System at one of the sharia financial institutions in Bandung, it can be concluded that designing a web-based credit application information system that will make it easier for applicants to obtain credit application information, as well as expedite operational work at one of the sharia financial institutions in Bandung. This research produces a system that is expected to reduce the use of physical documents, which results in too much paper being used so that many documents pile up and take up

much space. As well as preventing errors in the process of recording credit applications. Based on the results that have been obtained, suggestions in future research are that this credit application website program should be developed again into a better program, as well as adding other features that will be needed later, as well as the need for good system maintenance so that problems do not occur frequently. References

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