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Web-Based Online Store Design at the Stebi Bina Essa Sharia Cooperative

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Abstract

The STEBI Bina Essa Sharia Cooperative offers a range of everyday necessities for its members and the general public, including products from small and medium-sized enterprises and those manufactured by its members. Nonetheless, other obstacles persist in its operations, including inefficient record-keeping procedures, potential data inaccuracies, misplaced documents, and manual promotional and sales efforts. Moreover, the personal selling mechanism complicates matters for consumers at a distance, as they must visit the cooperative in person and pay in cash. This research aims to build and develop a web-based online store for the STEBI Bina Essa Sharia Cooperative. The author utilizes the System Development Life Cycle (SDLC) technique in this study. The findings suggest that sales may be executed online. Suggestions for enhancing the online shop design for the STEBI Bina Essa Sharia Cooperative include using larger datasets, specifically through the implementation of a Cloud VPS.

Keywords : Web-Based Sales System, Cooperative, Online Store, SDLC (System Development Life Cycle)

INTRODUCTION

The advancement of technology in contemporary times has profoundly influenced several facets of human existence, especially in facilitating more efficient and organized endeavors. Technology serves as the primary instrument for streamlining quotidian activities (Zendrato, 2024). This technological advancement did not emerge abruptly but was the culmination of an extensive process that originated in the Industrial Revolution 1.0. The progression commenced with steam engines, evolved to electric power in phase 2.0, advanced to computer-based automation and robotics in era 3.0, and concluded in the deployment of the Internet of Things (IoT), artificial intelligence (AI), and cloud computing in Industry 4.0. At the zenith

of Industry 5.0, technology seeks to enhance collaborative synergy between machines and humans, while prioritizing social dimensions and sustainability (Musyafatoni et al., 2025). In addition to industrial advancements, information technology includes software, hardware, and networks. Software comprises data and instructions that operate computer systems, whereas hardware pertains to the tangible components of a computer that are visible and tactile. Computer networks facilitate the exchange of messages, data, and information among individuals (Hasibuan et al., 2022). These three components mutually reinforce one another and establish the foundation for the advancement of contemporary information systems.

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The proliferation of digital technology compels individuals and companies to embrace more efficient and cohesive systems. Online shopping is a rapidly expanding phenomenon, as the existence of online businesses enables electronic transactions via the internet, free from spatial and temporal constraints, thereby creating opportunities for many entrepreneurs, including cooperatives.

Cooperatives are economic entities owned and utilized by their members. Rational customers will select company entities that offer superior service quality, competitive pricing, and other advantageous benefits, in alignment with cooperative principles. The STEBI Bina Essa Sharia Cooperative exemplifies these ideals by providing a range of daily necessities for its members and the wider public, including products from small and medium-sized enterprises and from its members. Nonetheless, other obstacles continue to afflict its operations, including inadequate record-keeping procedures, potential data inaccuracies, misplaced documents, and manual promotional and sales efforts. The personal selling system complicates matters for distant consumers, who must visit the cooperative in person and pay in cash. This circumstance obstructs operational efficiency and growth potential.

Given these challenges, there is a necessity for innovation through a web-based sales system to improve the cooperative's service quality.

Consequently, the author undertakes a study entitled "Design and Development of a Web-Based Online Store for the STEBI Bina Essa Sharia Cooperative." The adoption of this system is anticipated to enhance cooperative operations, augment promotions, broaden trade reach, streamline transactions, and enable automated report generation.

Research on cooperative systems has been considerable; however, most studies focus on savings and loan systems or the internal functions of cooperatives. Research concerning the establishment of internet retail platforms for consumer cooperatives is scarce. Prior research encompasses the investigation by Maryati et al. (2024) regarding a Website-Based Savings and Loan System Model for Cooperatives, the study conducted by Jum'atin et al. (2025) on the Savings and Loan Cooperative Information System at KSP Mitra Mandiri utilizing a website, and the analysis by Muslimah & Ghodzaly (2024) on the Design of Information Systems for the Keluarga Besar (KKB) STT Cipasung Tasikmalaya Cooperative. Additional research includes Hia (2023), which examines a Web-Based Money Lending Information System for the New Mitra Karya Cooperative Unit XXXVII, and Sayuti et al. (2025), which focuses on a Palm Oil Sales Information System for the Biru Makmur Mandiri Bingin Rupit Village Cooperative, also utilizing a website. These studies underscore a research deficiency in the

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creation of online platforms tailored for consumer cooperatives.

METHOD

This study employs the System Development Life Cycle (SDLC) methodology as the framework for system development. The Software Development Life Cycle (SDLC) is a

structured process intended to ensure that a system is developed with high quality and meets user requirements and development objectives (Sagita & Surbakti, 2025). This method provides a framework that delineates the processes involved in software development. The stages of the Software Development Life Cycle (SDLC) are as follows:

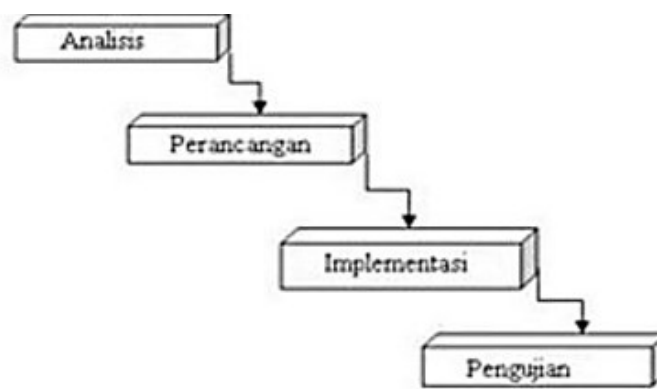


Figure 1. SDLC Method Stages

1. Analysis: The analysis phase involves the collection of information necessary to comprehend the current issues. This activity encompasses problem identification, solution formulation, and the establishment of system requirements to be developed. All assessments concentrate on facilitating the design and installation of the online store system.
2. The design phase seeks to create a system architecture that fulfills user requirements. The design incorporates sequence diagrams, class diagrams, database architecture, menu organization, and interface design.
3. Implementation: During this phase, the author implements the system plan by selecting appropriate hardware and software, then executing the program.
4. The testing step is executed to verify that the developed system fulfills user requirements. Should flaws be identified, the revision process entails reverting to the preceding phase. This testing seeks to reduce faults or flaws to ensure optimal system operation. The employed testing method is black-box testing, which focuses on evaluating system functionality without analyzing the core code.

RESULTS AND DISCUSSION

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UML tools are necessary to document the SDLC approach in a step-by-step manner. This encompasses use case, activity, sequence, and class diagrams (Toto Sugiarto, 2022).

The subsequent outcomes of this study are as follows:

1. Analysis

A. Analysis of the Running System

Understanding the system's workflow requires examining operational processes and identifying issues and deficiencies. If the existing system has flaws, initiatives to enhance or update it are important. The procedural activities are enumerated as follows:

1. The consumer chooses the preferred things.

2. After the consumer selects, the administrator verifies stock availability. If the requested item is unavailable, the administrator will notify the consumer.

3. Upon the product's availability, the administrator will notify the consumer of the full amount payable.

4. The consumer executes a cash transaction.

5. The administrator produces a receipt.

6. The administrator changes the inventory and sales transactions in Excel.

The activity diagram is illustrated as follows:

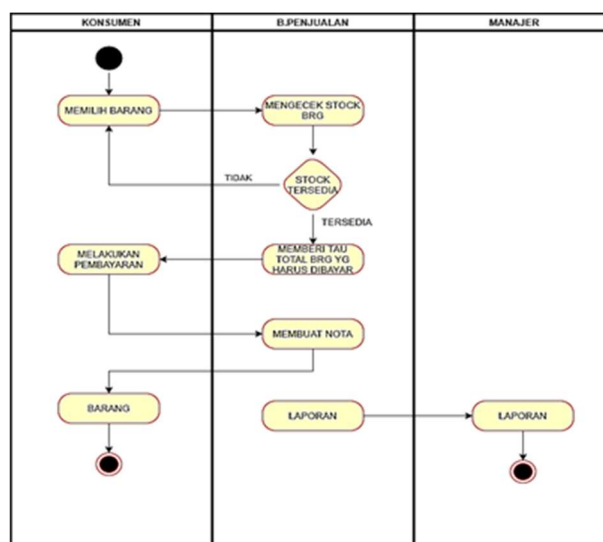


Figure 2. Activity Diagram of Current System Analysis

B. Proposed System Analysis

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The Use Case Diagram serves to illustrate and record the behavioral needs of a system. It illustrates the interaction between the system and users or other systems. It is highly

beneficial for delineating the requirements of a system. The suggested system, accompanied by the use case graphic, is outlined as follows:



Figure 3. Use Case Diagram Of The Proposed System

C. Use Case Diagram Description

The following is a description of the use case diagram:

Tabel 1. Deskripsi Use Case Diagram

| No. | Use Case | Description |
|-----|----------------------------|---|
| 1. | Login | It is the process and registration of access rights for system users. |
| 2. | View Home | Admin can view the homepage. |
| 3. | Manage Product Categories | Admin can view product category data. |
| 4. | Add/input product category | To input/add product categories. |
| 5. | Product category updates | To change product category data |
| 6. | Delete product category | To delete data |
| 7. | Manage Products | Admin can view and manage product data |
| 8. | Add/input product | To input/add product data |
| 9. | Change product | To change product data |
| 10. | Delete product | To delete product data |

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| | | |
|-----|----------------------|---|
| 11. | Product details | To view product data in detail and add product images |
| 12. | Manage Purchases | To view the purchase list |
| 13. | Detail | To view the invoice |
| 14. | Payment Confirmation | To confirm consumer payment |
| 15. | Customer Data | To view customer data |
| 16. | Report | Admin can view reports and download reports. |
| 17. | Arrangement | Admin can manage profiles and themes |
| 18. | Viewing web pages | Consumers can view and visit the website. |
| 19. | Registration | Consumers fill out the registration form. |
| 20. | Add to cart | Consumers can add products to the cart. |
| 21. | Shopping cart | Consumers can view the shopping list. |
| 22. | Product details | Consumers can see the product in detail. |
| 23. | Shopping delete | Consumers delete shopping data. |
| 24. | Checkout Shopping | The process to continue shopping transactions. |
| 25. | Continue Shopping | Consumers cancel purchases. |
| 26. | Payment | The consumer confirms the payment. |
| 27. | Logout | It is the process of ending the use of the system. |

2. Design

This design stage produces design documents, including the following:

A. Sequence Diagram Design

A sequence diagram is an interaction diagram that delineates

the execution of an operation, the messages transmitted, and their timing. This is an illustration of employing a sequence diagram for shopping.

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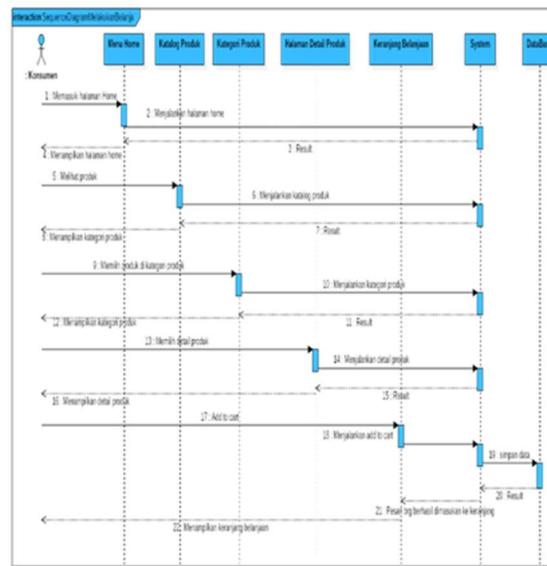


Figure 4. Sequence diagram of shopping

B. Class Diagram Design

The class diagram delineates the structure and description of classes, packages, and objects, as well as their interrelationships. The following is the class diagram for the design and development of the

online store at the STEBI Bina Essa Sharia Cooperative. This is an illustration of the class diagram for the design and development of the online store at the STEBI Bina Essa Sharia Cooperative:

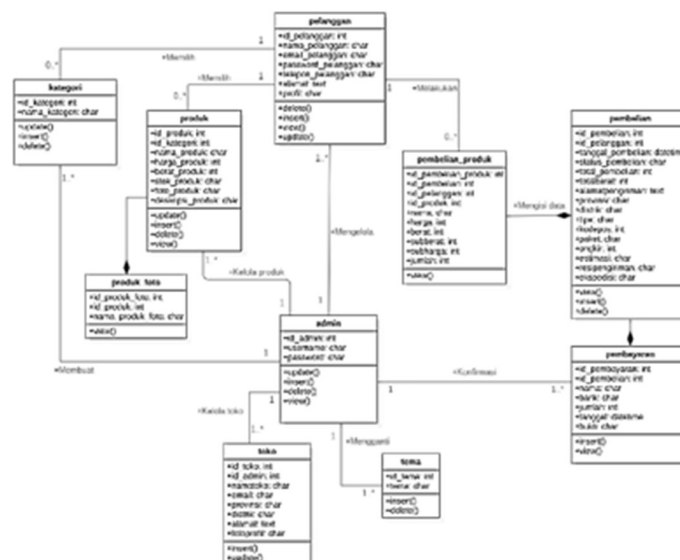


Figure 5. Class Diagram

C. Database Design

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Several tables have been produced for the execution of the online shop design for the STEBI Bina Essa Sharia Cooperative. The objective of this schema is to identify the fields, field types, field widths, and

primary keys for each table in the 'db_toko' database. An illustration of the data structure is as follows:

Table Name: admin

Function: Stores admin data

Primary Key: id

Table 2. Admin

| Field Name | Type | Size | Information |
|------------|---------|------|-------------|
| id_admin | integer | 11 | Primary key |
| Username | varchar | 255 | |
| password | varchar | 100 | |

D. Interface Design

Interface design is the stage of creating the appearance or design of the system to be built. An example of the interface design for

the web-based online store of the STEBI Bina Essa Sharia Cooperative is shown below:

a. Consumer Home Interface Design

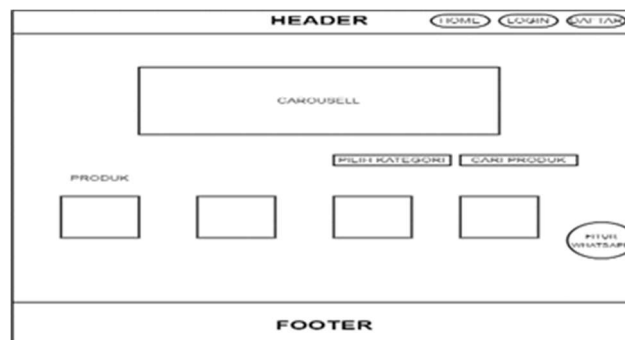


Figure 6. Consumer Home Interface Design

b. Store Admin Interface Design



Figure 7. Shop Admin Interface Design

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Implementation

A. System Requirements

Hardware. The hardware used to support the online store design at the STEBI Bina Essa Sharia Cooperative includes:

1. Core i3 processor
2. 4096 MB RAM
3. 14-inch monitor
4. Printer
5. Keyboard
6. Mouse
7. 500 GB hard drive

Software. The software used includes:

1. Windows 10
2. XAMPP
3. Database: MySQL
4. Programming language: PHP
5. Web browser: Google Chrome
6. Web server: Apache

Brainware/access rights. This system can be operated by:

1. Users, namely those who use the finished system, namely, store administrators and consumers.
2. Programmers, namely those who create and maintain the system.

B. Database Interface

This is a presentation of the previously developed database implementation:

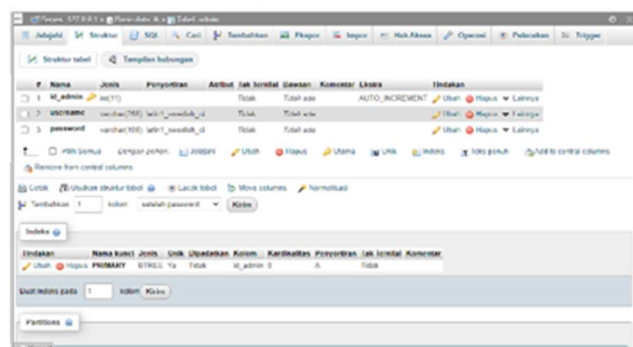


Figure 8. Admin Table

C. Consumer Home Interface

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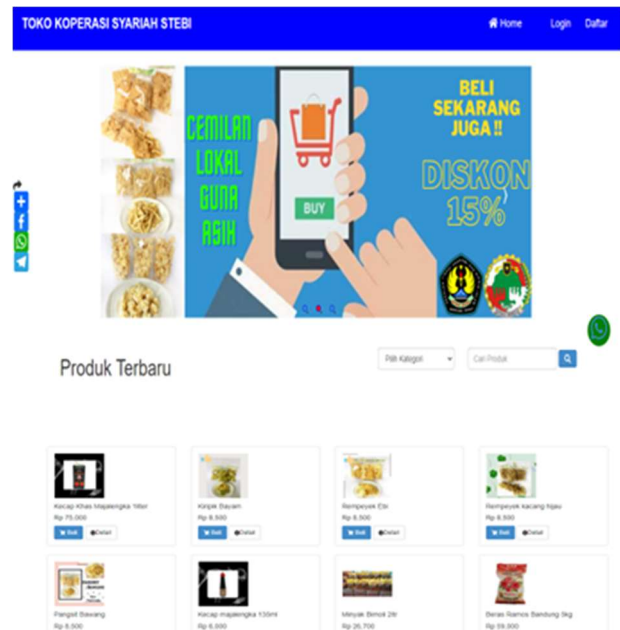


Figure 9. Consumer Home Interface

D. Store Admin Interface



Figure 10. Store Admin Interf

Blackbox Testing

Black box testing is a software evaluation technique that emphasizes functionality, particularly the application's input and output, and assesses whether they align with the

anticipated outcomes (Jum'atin et al., 2025). The testing phase is a crucial stage in the software development cycle. The following table illustrates the black-box testing.

Table 2. Blackbox Testing

| No | Tested Modules | Action | Results | Status |
|----|----------------|------------------------------|---|---------|
| 1. | Login Form | Enter username and password. | The user successfully logged into the system. | SUCCEED |

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| | | | | |
|-----|-------------------|--|--|---------|
| 2. | Registration Form | Input name, email, password, address, telephone. | Users can log in. | SUCCEED |
| 3. | Home Menu | Click the home menu | Displaying the main page menu | SUCCEED |
| 4. | Logout Menu | Select the logout menu | Sign out of account | SUCCEED |
| 5. | Purchase History | Click the purchase history menu | Displays the purchase history page | SUCCEED |
| 6. | Checkout | Click checkout | Displaying the shopping checkout form | SUCCEED |
| 7. | Payment | Click the payment button | Displaying the payment confirmation form | SUCCEED |
| 8. | Shopping Cart | Click shopping cart | Displaying shopping cart | SUCCEED |
| 9. | Select Category | Click select category | Displaying product category pages | SUCCEED |
| 10. | Setting Profile | Displaying product category pages | Displaying the consumer profile page | SUCCEED |
| 11. | Unpaid Button | Click not paid yet | Displays unpaid shopping data | SUCCEED |
| 12. | Button processed | Click processed | Displays shopping data that is being processed by the admin | SUCCEED |
| 13. | Button sent | Click send | Displays shopping data that has been sent by the admin | SUCCEED |
| 14. | View Home | Click the home menu | Displaying the “Welcome Administrator” home page | SUCCEED |
| 15. | Manage Categories | Click the category menu | Displaying category pages | SUCCEED |
| 16. | Manage Products | Click add category | The database grows according to the categories added. | SUCCEED |
| | | Click edit | The database updates the categories according to what is edited. | SUCCEED |
| | | Click delete | Database deleted according to what was deleted | SUCCEED |
| | Manage Products | Click the product menu | Displaying product pages | SUCCEED |
| 17. | | Click add product | The database grows according to the products added. | SUCCEED |
| 18. | | Click edit | Database updates products according to what is edited | SUCCEED |
| | | Click delete | Database deleted according to what was deleted | SUCCEED |
| | Manage Sales | Click the sales menu | Displaying the sales report page | SUCCEED |
| | Arrangement | Click settings | Displaying the store profile page | SUCCEED |

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CONCLUSION

This report allows for numerous conclusions regarding the effects of the website's establishment on the STEBI Bina Essa Sharia Cooperative. The creation of this online platform enables clients to browse and purchase products from any location, significantly expanding the cooperative's market reach. The shift to an online system streamlines ordering and shipping operations, improves payment methods by including transfers, facilitates transactions, and provides more information for consumers. They can now finalize their purchases without physically visiting the business, saving time and effort. Moreover, adopting this system markedly optimizes reporting processes for cooperative management, facilitating swifter, more efficient data handling. This unique strategy markedly improves the cooperative's operational efficiency and broadens the marketing reach of its products.

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