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# DEVELOPMENT OF THE TANJUNG SALAM ISLAMIC BOARDING SCHOOL WEBSITE IN CIWIDEY DISTRICT BANDUNG REGENCY

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## ABSTRACT

The development of pesantren institutions can be carried out using internet-based information media so that it can be accessed publicly, and of course, it requires infrastructure that can meet the criteria according to the needs. Developing a website certainly requires skills and expertise in order to produce information that is easily accessible, engaging, and understandable to visitors. In developing the Tanjung Salam Pesantren website, the community service team from STMIK Mardira Indonesia used a descriptive method with a qualitative approach and the waterfall model in developing the software (Software Development Life Cycle). With the development that has been carried out, training is certainly needed for the management, especially operators and admins who are responsible for the website content. The results of this website development make information access for the community or the public more freely available.

**Keywords :** *development, training, information, website*

## INTRODUCTION

To support the acceleration of the development of Islamic boarding school institutions today, it certainly requires an information medium that can be accessed publicly by utilizing infrastructure that is reachable by the institution. One option that can be used is by purchasing a domain and renting hosting from an internet service provider at a very affordable price[1] in accordance with the needs required to display information from Tanjung Salam Islamic Boarding School.

Tanjung Salam Islamic Boarding School is an educational institution that plays an important role in the development of students' character and knowledge. However, in today's digital era, many boarding schools still face challenges in utilizing information technology to improve the quality of education and communication. The existing website facilities currently only provide a one-way flow of information, so they need to be developed further so that interested parties can communicate with the institution through the existing website. There needs to be more intensive socialization in introducing the existence and

benefits that can be obtained from the Tanjung Salam Islamic Boarding School website. The process of identifying this problem begins with observing the need for better information for students, parents, and the general public.

Based on the development needs of the Tanjung Salam Islamic Boarding School website, the community service team (Abdimas Team) of STMIK Mardira Indonesia, consisting of lecturers and students, has the obligation under the Tri Dharma of Higher Education to carry out community service that is problem-solving, comprehensive, meaningful, thorough, and sustainable[2] to assist in the development of a website that meets the needs so that it can be easily managed by the Tanjung Salam Islamic Boarding School.

## **METHODOLOGY**

In carrying out this community service activity, a qualitative descriptive method is used[3] and the data collection techniques used were observation and interviews. The STMIK Mardira Indonesia Abdimas team directly visited Tanjung Salam Islamic Boarding School to exchange information with the existing website management, discuss the development of the static informational website into a dynamic website that can facilitate two-way communication between the stakeholders and the Tanjung Salam Islamic Boarding School, especially regarding information on activities and education currently taking place at the institution.

The implementation of the execution method carried out is:

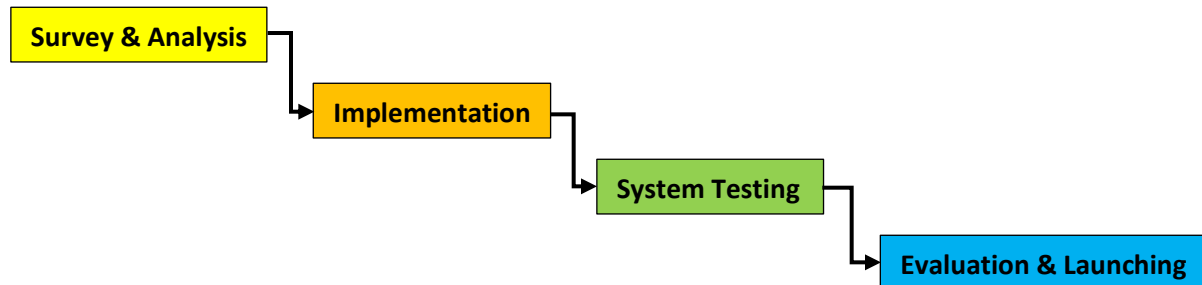


Figure 1. Implementation Method

### 1. Survey & Analysis

- a. The STMIK Mardira Abdimas team held discussions and interviews with the management of Tanjung Salam Islamic Boarding School to understand the desired needs.
- b. Designing the website interface focusing on ease of use for users.
- c. Designing the database structure using MySQL to store the necessary data.

### 2. Implementation

Developing key features, as well as adding dynamic communication features such as new student registration facilities.

### 3. System Testing

- a. Conduct testing on each feature to ensure functionality works well by several volunteer users.
- b. Ensure data security.

### 4. Evaluation & Launching

- a. Conduct evaluations based on feedback from volunteer users who have been designated during the system testing phase.

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- b. Update the website publication on the internet service provider server that has been rented previously.

For website development carried out using the Waterfall method, as used in the design of a web-based library information system[4], this method provides the advantage of ensuring that each development stage is carried out carefully and in a structured manner. In the requirements analysis stage, the development team can identify features needed by users, such as profile pages, education, registration, and blog.

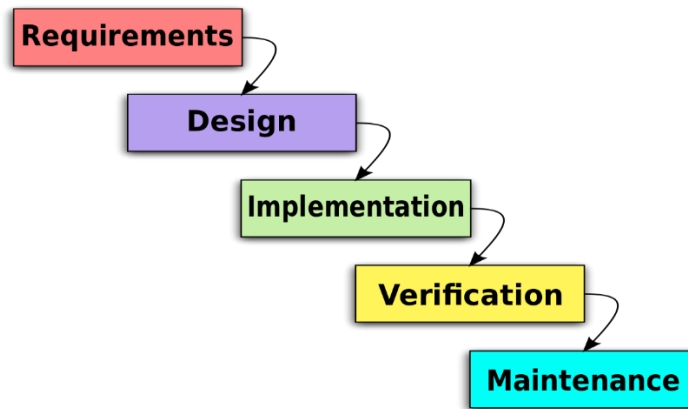


Figure 2. Waterfall Method

A responsive design allows the website to be accessed well across various devices, including smartphones and tablets. With the increasing use of mobile devices among students and parents, it is important for Tanjung Salam Islamic Boarding School to adopt a responsive design so that information can be easily accessed by all users.

School websites can provide many benefits, including:

1. **Increased Transparency:** Websites allow schools to openly share information about activities, achievements, and school management with the public.
2. **Ease of Access to Information:** Students and parents can easily access important information, such as class schedules, announcements, and the latest news.
3. **School Promotion:** Websites can be used as a promotional tool to attract prospective students and enhance the school's reputation in the eyes of the public.

The development of a website for Tanjung Salam Islamic Boarding School is very relevant and beneficial. By utilizing information technology, the school can enhance accessibility, transparency, and the involvement of all parties in the educational process. Therefore, the development of this website is expected to provide a positive contribution to the management and communication at Tanjung Salam Islamic Boarding School.

As for the infrastructure used, it is done by subscribing to a service from an internet provider company that has good quality and trustworthy credibility.

## **RESULTS AND IMPACT OF IMPLEMENTATION**

The main goal of this project is to provide an informative and interactive online platform for prospective students, parents, alumni, and the general public, thereby enhancing the visibility and reputation of Tanjung Salam Islamic Boarding School in the virtual world.

### **Activity Schedule**

This activity schedule is prepared to provide a clear overview of the stages that will be carried out in the website development project for Tanjung Salam Islamic Boarding School, from the planning stage to the launch. This schedule will serve as a reference for the development team to ensure the project progresses according to the plan and the established timeline.

Table 1. Activity Schedule

No	Activity	Dura-tion	Person in charge	Notes
1	Planning Stage	1 day	Advisory and Development Team	Forum Group Discussion
2	Data Collection and Needs Analysis	2 days	Development Team	Interview with the boarding school management
3	Website Design Planning	7 days	Desainer	Creating wireframes, mockups, and prototypes
4	Development Stage	1 day	Advisory and Development Team	Forum Group Discussion
5	CMS Platform Selection	5 days	Development Team	Choosing WordPress as the CMS platform
6	Website Structure Development	23 days	Development Team	Creating homepage, program profile pages, etc.
7	Special Features Development	15 days	Development Team	Registration forms, etc.
8	Testing Stage	1 day	Advisory and Development Team	Forum Group Discussion
9	Functional Testing	5 days	Development Team	Ensuring all features function properly
10	Appearance Testing	5 days	Development Team	Ensuring responsive display on various devices
11	User Testing	4 days	Development Team	Collecting feedback
12	Launch Stage	1 day	Advisory and Development Team	Forum Group Discussion
13	Website Launch	1 day	Development Team	Promoting
14	Final Evaluation	1 day	Advisory and Development Team	Forum Group Discussion
15	Training	3 days	Abdimas Team of STMIK Mardira Indonesia	Conducting training for the management team of Tanjung Salam Islamic Boarding School website

### **Data Collection and Needs Analysis**

Interviews: Conduct interviews with the management of Tanjung Salam Islamic Boarding School to identify important information to be displayed on the website, such as vision and mission, history, educational programs, facilities, and activities.

### **Website Design Planning**

Carrying out the design process conducted by the development team, which consists of several stages, namely:

1. Wireframe: Creating the basic framework of the website layout to determine the structure and hierarchy of information.
2. Mockup: Creating a more detailed visual design, including the selection of colors, typography, and graphic elements that match the identity of Tanjung Salam Islamic Boarding School.
3. Prototyping: Creating an interactive prototype to test user flow and gather feedback.

### **Website Development**

The initial stage is building the website on localhost through several steps, namely :

1. Platform selection: Choosing a suitable CMS (Content Management System) platform, for example, WordPress, to facilitate content management.
2. Feature development: Building the main features of the website, such as :
  - a. An attractive and informative homepage.
  - b. A profile page for the pesantren.
  - c. An education program page.
  - d. A new student registration page[5].
  - e. Latest news and activities.
  - f. Photo and video gallery.
  - g. Contact and other important information.
3. SEO optimization: Performing Search Engine Optimization (SEO) to improve the website's ranking on search engines.
4. Testing and Launching
5. Functional testing: Ensuring all features work properly.
6. Appearance testing: Ensuring the website looks responsive on various devices (desktop, tablet, smartphone).
7. User testing: Inviting several users to try the website and provide feedback.
8. Launch: Officially launch the website and carry out promotions.

The resulting appearance can be seen in Figure 3.

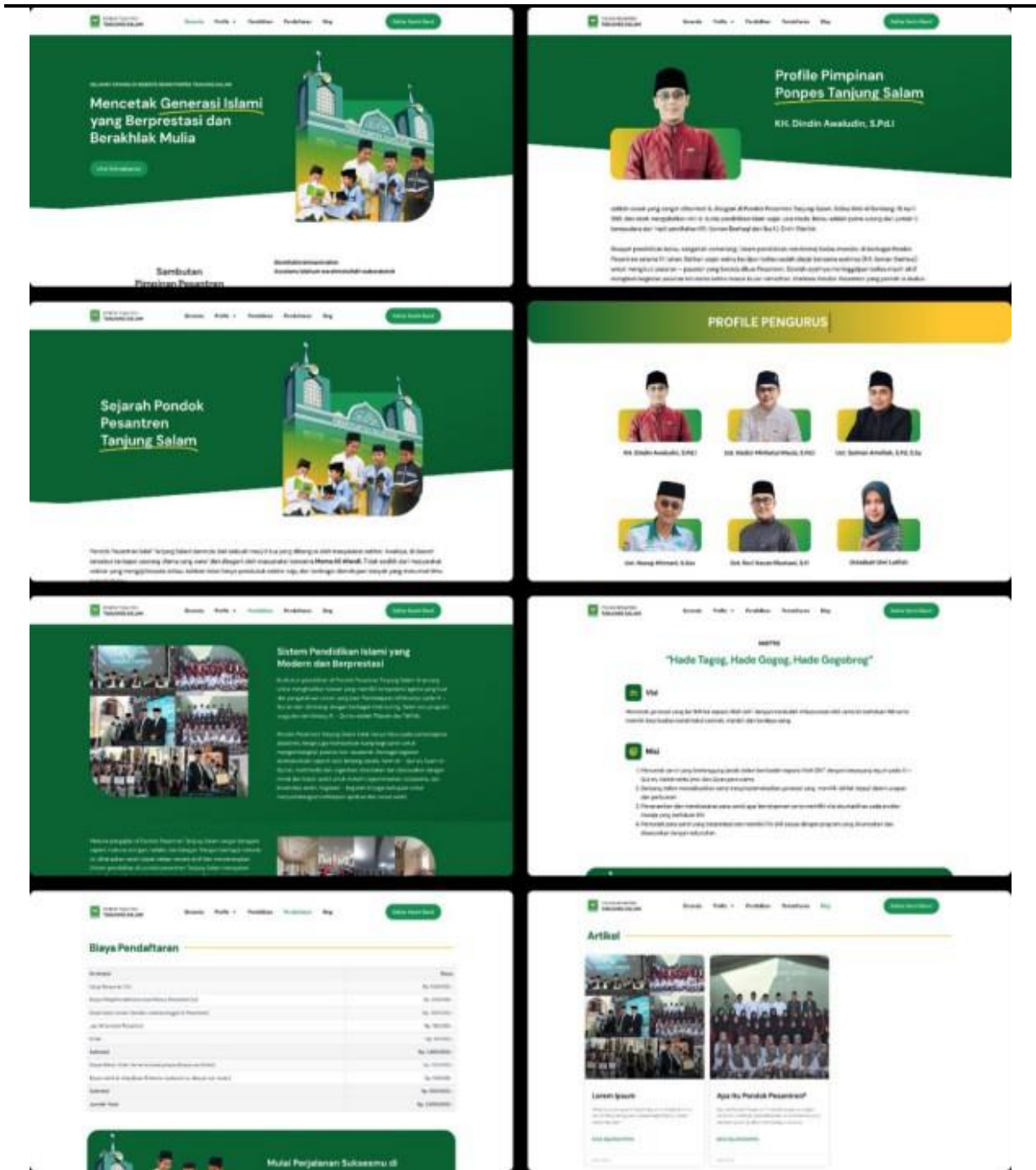


Figure 3. Tanjung Salam Islamic Boarding School Web Display

**Evaluation**

After the launch phase is completed without any bugs or errors in the application, several evaluations are carried out in the following areas :

1. Traffic analysis: Monitoring the number of visitors and the behavior of website visitors.
2. User feedback: Collecting feedback from users through surveys or comments on the website.

3. Goal achievement: Evaluating whether the website has successfully achieved the set goals, such as increasing the number of new student registrations or raising public awareness about Tanjung Salam Islamic Boarding School.

### **Handover**

After the development process has been completed and the evaluation results indicate that it is suitable for publication without any issues in the application, a handover is conducted by the Abdimas Team of STMIK Mardira Indonesia to the Tanjung Salam Islamic Boarding School.



Figure 4. Training Process and Handover of Tanjung Salam Islamic Boarding School Website

### **Conclusion**

The result of the community service program carried out by the Abdimas Team of STMIK Mardira Indonesia at Tanjung Salam Islamic Boarding School has produced the development of an interactive website that is beneficial for the boarding school administrators, parents of the students, and the public who need information related to various activities conducted by Tanjung Salam Islamic Boarding School. It also enables the online registration process for prospective students who live far from the location of Tanjung Salam Islamic Boarding School.

**THANKS TO**

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