# Construction of a Website for Phu Binh High School Using Open Source Joomla

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***Abstract*—This thesis details the construction of a website for Phu Binh High School using the open-source Joomla platform. The work covers the setup and configuration of Joomla, as well as the development of various components and functionalities. The website includes features such as student information lookup, download functionality, and a home page with relevant content. The study also analyzes the system's use cases and designs specific functionalities to meet the school's needs. The website was built to meet the requirements of teachers, students, and parents, providing a platform for information sharing and resource management. The study highlights the benefits of using an open-source platform, such as cost savings and the ability to customize the website to meet specific needs. However, the development process faced challenges, such as ensuring the security and reliability of the website.**

***Index Terms*—Joomla, open source, website construction, component development, use case analysis**

## I. Introduction

The thesis provides an overview of Joomla, a popular open-source content management system (CMS). It covers the installation, configuration, and management of Joomla, including various administrative functions and the creation of extensions. The study aims to build a website for Phu Binh High School, focusing on functionalities such as student information lookup and download capabilities. The website was designed to meet the needs of the school, including functionalities for teachers, students, and parents. The project involved setting up Joomla, creating various components and modules, and tailoring the website to the school's specific requirements [1].

## II. Methods

The methods section describes the setup and configuration of Joomla, including the creation of various components and modules. The thesis also includes the design of specific functionalities such as student information lookup and download features. The website was built to meet the needs of the school, including functionalities for teachers, students, and parents. The development process involved creating a module for student information lookup and a component for download functionality. The website was designed to be user-friendly and accessible to all members of the school community [1].

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## III. Results

The website was successfully constructed for Phu Binh High School, incorporating features such as student information lookup and download capabilities. The design and functionalities were tailored to meet the school's requirements, providing a platform for information sharing and resource management. The website included a home page with relevant content, such as school news and events. The study did not provide any measured evaluation of the website's performance or user satisfaction, but it highlighted the benefits of using Joomla for the school's website, such as cost savings and customization options [1].

## IV. Discussion

The discussion section evaluates the effectiveness of using Joomla for the school's website. It highlights the benefits of using an open-source platform, such as cost savings and the ability to customize the website to meet specific needs. The study also addresses the challenges faced during the development process, such as ensuring the security and reliability of the website. The website was designed to be user-friendly and accessible to all members of the school community, including teachers, students, and parents. The study suggests that the website could be further improved by incorporating additional features, such as a calendar for events and a forum for discussion [1].

## V. Conclusion

The thesis concludes that the construction of the website for Phu Binh High School was successful, providing a useful platform for information sharing and resource management. The use of Joomla allowed for customization and flexibility, meeting the school's needs and providing a valuable tool for teachers, students, and parents. The study suggests that the website could be further improved by incorporating additional features, such as a calendar for events and a forum for discussion. The use of Joomla provided cost savings and customization options, making it a suitable platform for the school's website [1].

## References

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