An Automated System for Collecting Data and Managing Identity Documents

Phan Kim Tuân
Thai Nguyen University of Information and Communication Technology
Thai Nguyen University, Thai Nguyen, Vietnam
dtc16hd4801030001@ictu.edu.vn

***Abstract*—This thesis focuses on the development of an automated data collection system and identity-document management. The author describes the theoretical foundations of web applications, including HTML5, CSS3, and SCSS, as well as the BEM methodology. The work aims to create a system that can collect and manage documents independently, organizing citizen identity-document data. The system is built using modern web technologies, with a particular emphasis on HTML5 and CSS3. The BEM methodology is applied to ensure a structured and maintainable user interface. The thesis details the development process, but specific numerical results are not provided. The system is designed to be administrative, allowing users to manage documents independently, and it includes features such as document upload, search, and retrieval. The limitations include the lack of empirical evaluation and the need for further development to enhance functionality and user experience.**

***Index Terms*—Web Application, HTML5, CSS3, SCSS, BEM, Document Management**

I. Introduction

The thesis introduces the concept of web applications and their architecture, emphasizing the evolution of web technologies. It discusses the advantages of HTML5 and CSS3, and the use of SCSS for more structured and maintainable CSS coding. The BEM methodology is explored for better structuring of CSS and user interfaces. The work aims to create a system that can collect and manage documents independently, organizing citizen identity-document data. The author outlines the theoretical foundations of web applications, including the architecture of web applications and the use of HTML5, CSS3, and SCSS. The BEM methodology is discussed for structuring CSS and UI components. The system is designed to be administrative, allowing users to manage documents independently, and it includes features such as document upload, search, and retrieval [1].

II. Methods

The author outlines the theoretical foundations of web applications, including the architecture of web applications and the use of HTML5, CSS3, and SCSS. The BEM methodology is discussed for structuring CSS and UI components. The system is built using modern web technologies, with a particular emphasis on HTML5 and CSS3. The BEM methodology is applied to ensure a structured and maintainable user interface. The system is designed to be administrative, allowing users to manage documents independently, and it includes features such as document upload, search, and retrieval. The development process involves coding and testing the system to ensure its functionality and usability. The system is designed to be administrative, allowing users to manage documents independently, and it includes features such as document upload, search, and retrieval [1].

Supervisor: Nguyễn Thị Dung, Thai Nguyen University of Information and Communication Technology.

III. Results

The thesis details the development of an automated data collection system and identity-document management, but specific numerical results are not provided. The system is built using modern web technologies, with a particular emphasis on HTML5 and CSS3. The BEM methodology is applied to ensure a structured and maintainable user interface. The system includes features such as document upload, search, and retrieval. The system is designed to be administrative, allowing users to manage documents independently. The limitations include the lack of empirical evaluation and the need for further development to enhance functionality and user experience [1].

IV. Discussion

The author discusses the benefits of using modern web technologies and the BEM methodology for creating a more structured and maintainable system. The discussion focuses on the theoretical aspects rather than empirical results. The system is designed to be administrative, allowing users to manage documents independently, and it includes features such as document upload, search, and retrieval. The limitations include the lack of empirical evaluation and the need for further development to enhance functionality and user experience. The BEM methodology is applied to ensure a structured and maintainable user interface. The system is designed to be administrative, allowing users to manage documents independently, and it includes features such as document upload, search, and retrieval [1].

V. Conclusion

The thesis concludes with the results of the developed system, identifying areas for improvement and suggesting future directions for research and development. The system is designed to be administrative, allowing users to manage documents independently, and it includes features such as

document upload, search, and retrieval. The limitations include the lack of empirical evaluation and the need for further development to enhance functionality and user experience. The BEM methodology is applied to ensure a structured and maintainable user interface. The system is designed to be administrative, allowing users to manage documents independently, and it includes features such as document upload, search, and retrieval [1].

References

[1] Phan Kim Tuân, ”An Automated System for Collecting Data and Managing Identity Documents,” internal undergraduate thesis (original in Vietnamese), Thai Nguyen University of Information and Communication Technology, 2021.

[2] Bộ môn hệ thống thông tin, “Giáo trình phân tích thiết kế hướng đối tượng”, Trường đại học công nghệ thông tin và truyền thông 2016

[3] “Learning React: Modern Patterns for Developing React Apps” 2nd Edition, Eve Porcello, Alex Banks 2020

[4] Scientific article, , Soukupova and Cech 2016