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# The Emerging Problem in Academic and Professional Relationship

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### ABSTRACT

In order to improve the competitiveness of graduates of the Faculty of Economics, State University of Jakarta, an E-Learning Application was designed that integrates big data of learning curriculum with the exchange of curriculum of foreign educational institutions through Eurasia Research. In designing the application, the methods used are literature study, analysis method with fishbone diagram and e-learning software design method using Multi Platforms based on PHP. The analysis method in the form of guest lecturer is intended to examine the curriculum of foreign educational institutions as a sample. The design method is used to design a new application system based on data taken from the results of interviews in the form of Intellectual Property Rights that can solve the problems faced. The design of Intellectual Property Rights e-learning software uses cloud computing web server hardware with client hardware and Multi Platforms programming e- learning software, interpreter and big data and e-learning software for clients. The desired result is the successful implementation of e-learning Software and widespread publication in Indonesia with its publication that can produce Big Data integration of learning curriculum.

## 1. Introduction

In accordance with action research that is in line with the 1945 Constitution (UUD), the Draft Law (RUU) on the national education system (Sisdiknas) is one of the bills included in the 2020-2024 national legislative program [1]. This bill is directed to be a replacement law for Law No. 20 of 2003 concerning the National Education System, Law No. 14 of 2005 concerning Teachers and Lecturers and Law No. 12 of 2012 concerning Higher Education [1]. Furthermore, in the initial stage of public involvement as explained the Ministry of Education, Culture, Research and Technology has invited representatives of stakeholders, such as representatives of teacher professional organizations and associations, academics, community organizations, education providers, and local governments [1]. In accordance with the mandate of applicable laws regarding the formation of laws, the government openly accepts suggestions and input from the public [2]. In addition, the government also opens up

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opportunities for the wider community to participate in examining all documents of the 2022 National Education System Bill and provide input through the page <https://sisdiknas.kemdikbud.go.id/> [2]. As conveyed by the government, the public is given the opportunity to provide suggestion and input regarding the contents of the 2022 National Education System Bill [2]. This is because through the issuance of Government Regulation of the Republic of Indonesia Number 31 of 2024 concerning State University with Legal Entities of the State University of Jakarta which was stipulated by The President of Indonesia on August 14, 2024 [10]. Based on the bill, a learning curriculum from foreign educational institutions is therefore needed that can provide input to educational institutions and institutions that are in accordance with technological developments and information systems to improve the quality and quality of university graduates throughout Indonesia. Jakarta State University considers it necessary to integrate the National Education System Law, the Teachers and Lecturers Law, and the Higher Education Law into one law to implement the mandate of the 1945 Constitution concerning one education system, and so that regulations at the law level do not overlap [2].

To respond to rapid developments, this law is drafted more flexibly, not too detailed [2]. The National Education System Bill that is currently being planned has accommodated all Constitutional Court decisions regarding the three integrated laws [2]. The principles of Independent Learning which emphasize the quality of teaching and learning and expand the space for innovation, especially in the field of the E-learning Match Link information system in the education system need to be included in the National Education System Bill in the future.

As an administrator of curriculum learning activities using e-learning media, an application is designed that can apply curriculum input from foreign institutions to the public participation link application provided by the National Education System site. However, in terms of improving or actualizing the e-learning software technology infrastructure resulting from the implementation of the foreign institution's education curriculum. Some partner issues that can be explained after conducting a survey and Focus Group Discussion (FGD) and agreed upon by Partner 1 Eurasia Research in Jakarta are:

- a. The existence of a priority education program at the Jakarta State University that is currently running and experiencing obstacles to advancing E-learning therefore requires program that is able to match link (bring together) and integrate big data.
- b. Access for graduates of Jakarta State University who have difficulty penetrating the international workforce because it is not well integrated and there is no big data-based e-learning software to manage the E- Learning match link.

Based on the identification of the Partner's problems, a guest Lecturer activity was designed using the e-learning match link site with the combined link Sisdiknas' participation platform. The proposal drafting team planned to communicate and speak directly with Eurasia Research which has provided Memory of Understanding (MOU) facilities as representatives of foreign educational institutions to develop the Sisdiknas' curriculum through Guest Lecturers. The enthusiastic response to the invitation to cooperate from the proposal drafting team and economy faculty students with the design of e-learning software for this matter through the application of e-learning software.

Before the implementation of this community service activity, socialization was first carried out to related parties, across Sisdiknas' sectors. With this socialization, it is hoped that all parties can achieve solid cooperation, both material and non-material. The program implementation team consisting of the Higher Education Team, the Regional Government Team as partners, and the Eurasia

Research Team can identify the problems faced by the National Education System and decide on the solutions that can be offered by the team.

He expected output of the World Partnership program is the determination of the budget for the development of e-learning software with the Match Link curriculum, a learning curriculum in terms of Big Data-based technology. Due to the lack of adequate infrastructure, the World Partnership program is the reason why the region can implement e-learning software. In terms of implementing information technology activities, counseling and assistance can be carried out on the actualization of the infrastructure for utilizing computer technology along with appropriate Internet of Things (IoT) technology for the community and E-Learning entrepreneurs and government bureaucracy through the National Education System which has initiated bureaucratic challenges to answer the Industrial Revolution 4.0 and society 5.0 which can be applied as added value in everyday life (research and devotion institution community service report).

The description of the proposed technology and information in this study is as follows:

Year I: Designing intellectual and property rights e-learning Software Additional Scan Functions and Unique data of participant inputted using Big Data Multi Platforms technology are as follows:

The design stage is carried out by creating a navigation structure, program flow and application appearance. Then the testing stage of the application that has been created is tested using programming so that the results can be improved on the application [11]. The system implementation stage is the final stage in this research. If the testing stage is successfully carried out, the researcher first installs the application on the smartphone device that has been provided [8]. The stages of preparing articles and publications are mandatory outputs that must be carried out in this research [12]. The publication of scientific work will later be published in the reputable and accredited online journal.

## **2. Methodology**

The method used in this National Collaborative research is literature study, analysis method using fishbone diagrams for viewing and design methods. The analytical method is used to examine the problems faced by the regional government [7]. The design method is used by using hardware, software, brain ware server and client specifications to design a software prototype design that can solve the problems faced, then after that the software testing stage is carried out to test whether the software created as a prototype is able to process transactions in the system properly [5]. Then implementation is carried out in the form of training for users [6].

## **3. Results**

The expected output of this research program is the determination of a budget to increase the literacy of the e-Learning community, entrepreneurs and stakeholders in information technology [9].

## **4. Conclusions**

The Modules above are providing users to access accurate, transparent and accountable reports regarding to the provincial government of Indonesia [3].

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