

WEB-BASED APPLICATION FOR REGISTRATION AND MANAGEMENT OF 'HAK KEKAYAAN INTELEKTUAL' IN THE LRPM DEPARTMENT PRESIDENT UNIVERSITY

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Abstract— Copyright is needed by everyone. They can file a copyright for a work they own to the government. If the submitted work has received a certificate of ownership rights to the work, then every person copying the work that is already certified will get a fine as regulated in the Undang – Undang Nomer 28 Tahun 2004 on copyright. President University has a department that manages and processes copyrights submitted by lecturers, employees or students on campus. In the process, currently only using a manual process, namely by face to face to submit a copyright application form. Not only that, the LRPM, the copyright filing manager, still uses the storage system on his computer and this makes his computer easy to experience problems because too much data is stored. From here an idea is created that can help make the process run fast, doesn't take a long time and reduces the problems that exist in storing approved forms. This application can also help creator to see the progress of copyright submissions digitally and download e-certificate files digitally, as well as fill out submission forms digitally. This can also serve to reduce the use of existing paper. For LRPM, they can easily see the neatly arranged storage according to the time of submission without downloading the scanned form. Process form submissions quickly and can upload e-certificates in the submitting platform.

Keywords- Web-based, Information System, Application Registration HAKI

I. INTRODUCTION

Every human being has his own right to what they want, including what they have. Intellectual Property Rights are a set of exclusive rights, each of which is granted to a person who has produced a work of thought, which has a form, nature or meets certain criteria based on applicable laws and regulations [1]. Because there are regulations regarding copyright, every work can be submitted to obtain rights to its creation.

At President University, there is a department that deals with copyright filing issues, namely the LRPM department. However, if you look at the system that is

owned by President University, it is still not utilizing existing technology. Today's technology can make it easier for users and can process quickly. So, from here it can be seen that if the system in use today cannot be said to be efficient when it is done, it means that it cannot be said to have developed in technology. This is one of the reasons for the formation of this research, where the program that will be created can benefit copyright creators and copyright admins. Research limitations are as Manage Copyright applications for all employees at President University, Simplify the process of submitting a Copyright application, Management of data storage that has been obtained from filing a copyright application.

II. LITERATURE REVIEW

The purpose of this section is to explain the concepts and objectives related to those used in developing this thesis. Law of copyright number 28 in year 2004. Based on the existing regulations in law, a person who produces a work has a right that can be owned by him, which is written in Law Number 28 of 2004 on Copyright Pasal 9 Ayat (1) that is, "Hak tersebut diantaranya meliputi hak untuk penerbitan ciptaan, penggandaan ciptaan dalam segala bentuk, penerjemahan ciptaan, pengumuman ciptaan, pertunjukan ciptaan, pendistribusian ciptaan/salinan, dan lain-lain" [2].

Therefore, anyone who does not have permission to copy creation can be subject to violations, this is written in Law Number 28 of 2004 concerning Copyright Pasal 9 Ayat (3), which states, "Setiap orang yang tanpa izin pencipta atau pemegang Hak Cipta dilarang melakukan penggandaan atau penggunaan secara komersial suatu ciptaan, dan apabila seseorang terlihat melakukan ini maka dinyatakan melanggar peraturan tersebut." [3].

The purpose of the enactment of the Law Copyright in terms of its function and nature is as follows [7]:

1. Guarantee the exclusive rights of the creator to control the use of his work in a certain period.
2. Guarantee the monopoly rights of a publisher to publish and sell a work in a certain area.
3. Provide a financial compensation (royalty) in return to the authors / creators for their creative work.
4. Encouraging the advancement of arts and science in the country concerned in order to support economic, social and cultural development.

III. METHODOLOGY

In order for the system to have good quality, Rapid Application Development (RAD) can be used to develop this application. This thesis uses the RAD method because it does not take a long time and can save time in this study. Development using RAD has 4 phases:

1. Requirements Planning
At this phase what is done is to find out what is needed for this project, the problems that exist in this project, and determine the objectives of this project. Furthermore, analyzing the project from the results of data that has been obtained previously.
2. Creator Design
Creator Design is a phase that aims to show how the flow that is in the program and the design that is used in this program.
3. Construction
This process is checking the results of the programs that have been made. This process aims to reduce errors and improve the program so that it can be implemented properly.
4. Cutover
Cutover is the process of implementing a program that has been checked for perfection and is ready to use.

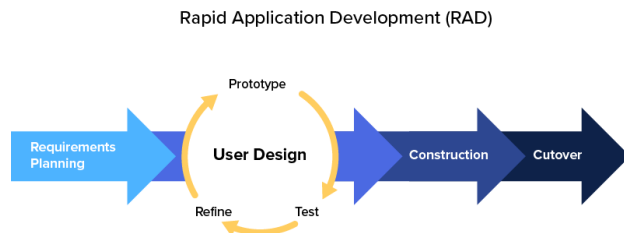


Figure 3.1 Flow Rapid Application Development (RAD)

IV. DESIGN AND IMPLEMENTATION

This section will explain the system development process on the system and show the results of the user

interface that will be created.

A. System Analysis

The System Analysis section explains the functions and features of the program based on predetermined requirements, to develop the objectives of this application.

B. System Overview

This web-based application can be easily accessed using a web browser with a connected internet network. Users of this application are the LRPM department as admins and employees at President University or students at President University as creators. This application's features include:

- Submission of copyright by the creator
Copyright applicants can fill out the submission form on the available website.
- Copyright data storage, The admin has a storage application form that has been completed in the process
- E-Certificate Upload, E-certificate will be given when the process has been completed until the end and the government has given the certificate.

1. Use Case Diagram

Use case diagrams serve to briefly describe who uses the system and what they can do. The use case should provide some observable results.

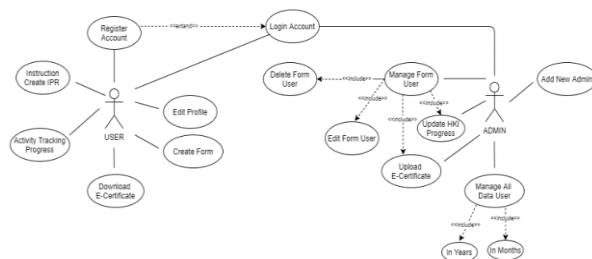


Figure 2. Use Case Diagram

C. Design System

System design functions to display the components contained in this application, and show the features that exist in this application.

1. User Interface Design

User Interface is a description of the application that will be made by a programmer to be displayed to the client so that the client can find out an overview of how the application will be made and what functions are in the application so that the client knows whether the application will be made useful for the future.

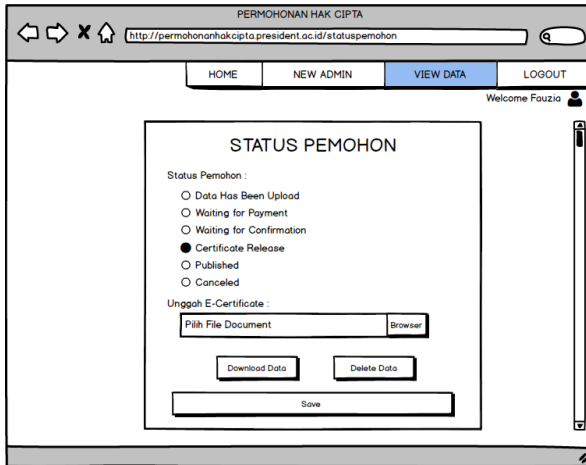


Figure 3. Upload E-Certificate

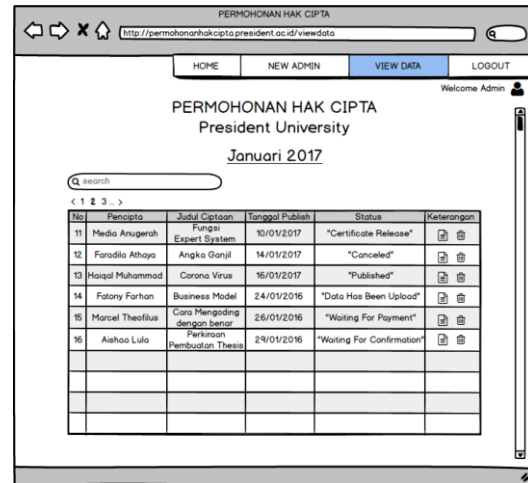


Figure 5. Storage Form Hak Cipta

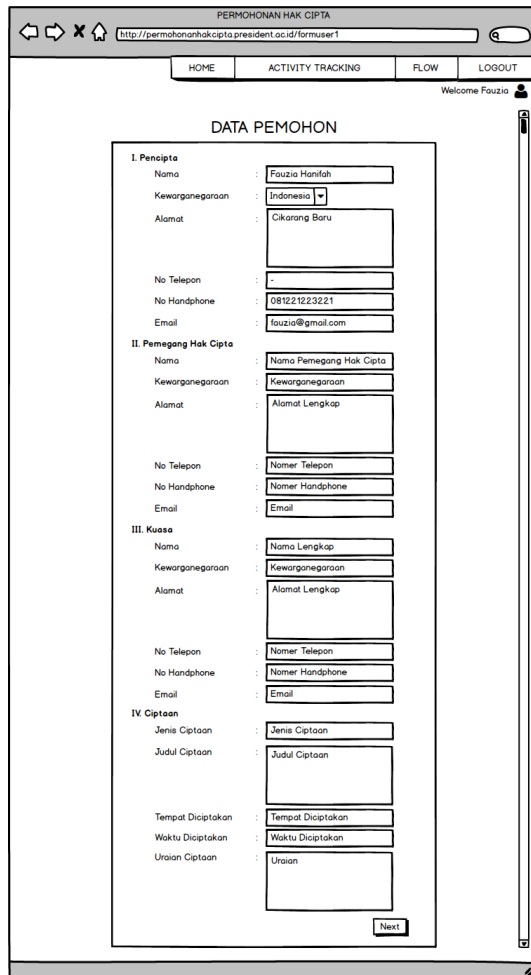


Figure 4. Form Pengajuan Hak Cipta

2. Entity Relationship Diagram

Entity Relationship Diagram or what is commonly called ERD is a model for compiling a database in order to describe data that has a relationship with the database to be designed.

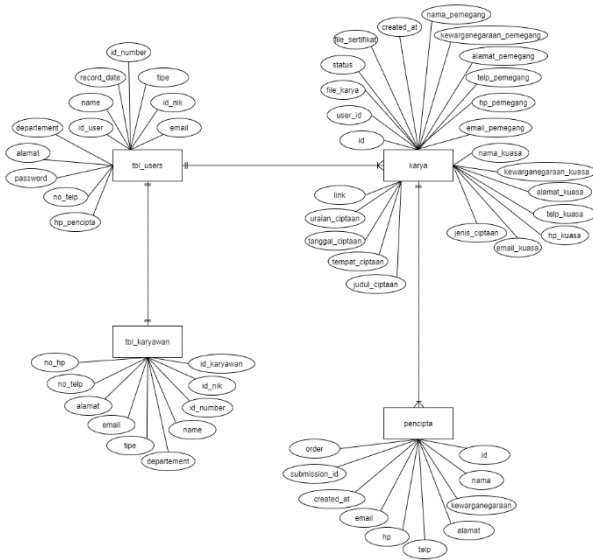


Figure 6. Entity Relationship Diagram

V. EVALUATION

In the evaluation section of the finished program, it is tested again from start to finish and all the features that are tested, to check whether there are still errors or bugs or are running as expected. This system must run as expected, then it will be stated that the program has been successfully created and can be used by users.

Table 6. 1 Table Testing

Scenario	Expected Results
General Features	
Login Account	Applications can be logged in according to the type of user and the system will redirect to the homepage
Register Account	Users can create accounts, and the system can store these accounts in the database
Logout	Accounts can be logged out by the system if the user already wants to log out of the account
Creator Features	

Form Creation	Creators can fill in the copyright application form, the system can save it in the database
Activity Tracking	Creators can see the progress of submitting their copyright form in the activity status feature
Download E-Certificate	Creators can download the e-certificate that has been uploaded by the admin
Profile Creator	The creator can see his own data in the profile feature and can update it.
Admin Features	
Edit From	Admin changes the status contained in the creator form
View Data	Admin can see the whole form that has been processed in the data view
Delete Form	Admin can delete failed forms
Upload E-Certificate	Admin can download the e-certificate that has been given by the government

VI. CONCLUSION

This study intends to help the LRPM department at President University to simplify the copyright making process, which does not take much time. Not only the LRPM, creators or in other words, copyright applicants can easily apply for copyright without having to meet LRPM, and can easily monitor the progress of their copyright filings. With this application it is hoped that it can help the process of filing a copyright easily according to what is expected.

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