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CENTRALIZED INFORMATION SYSTEM FOR DATA SERVICES OF THE PEKANBARU HIGH COURT DECISIONS

TUGAS AKHIR

Diajukan Sebagai Salah Satu Syarat
untuk Memperoleh Gelar Sarjana Komputer pada
Program Studi Sistem Informasi

Oleh:



MELGISATRIA TRINANDA

11750315183



UIN SUSKA RIAU

**FAKULTAS SAINS DAN TEKNOLOGI
UNIVERSITAS ISLAM NEGERI SULTAN SYARIF KASIM RIAU
PEKANBARU**

2023

LEMBAR PERSETUJUAN
CENTRALIZED INFORMATION SYSTEM FOR DATA
SERVICES OF THE PEKANBARU HIGH COURT DECISIONS

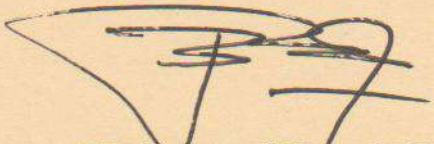
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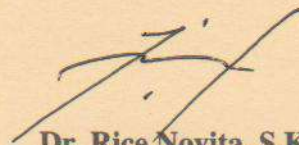
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Fakultas Sains dan Teknologi Universitas Islam Negeri Sultan Syarif Kasim Riau
di Pekanbaru, pada tanggal 29 Desember 2022


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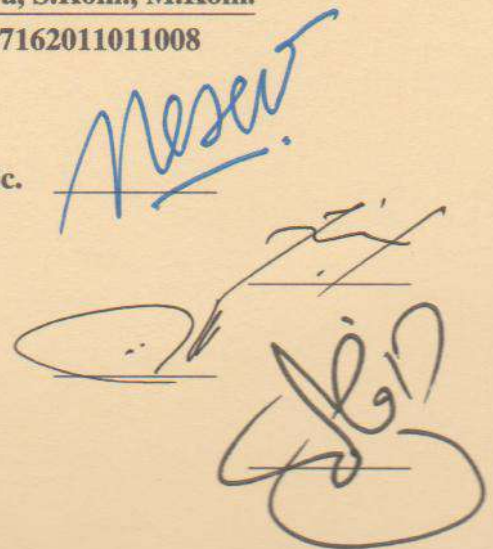
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LEMBAR PERSEMBAHAN

”..Allah tidak membebani seseorang melainkan sesuai dengan kesanggupannya..” (QS.Al-Baqarah:286)

Alhamdulillah Rabbil 'Alamin, segala puji bagi *Allah Subhanhau Wa Ta'ala* sebagai bentuk syukur atas segala nikmat yang telah diberikan tanpa merasa kekurangan sedikit apapun, semoga hamba Mu ini selalu berada dijalan *Allah Subhanhau Wa Ta'ala* Tuhan Maha Pengasih lagi Maha Penyayang. Shalawat beserta salam kita curahkan kepada junjungan *Allah Subhanhau Wa Ta'ala Nabi Muhammad Shalallahu 'Alaihi Wa sallam* dengan mengucapkan “*Allahuma Sholli'ala Muhammad Wa'ala Ali Muhammad*” semoga senantiasa mendapat syafaat Nya dunia dan akhirat.

Terimakasih yang tak terkira kupersembahkan kepada kedua orang tua saya Ayahanda Almarhum Rasyid dan Ibunda Salmah yang sudah melahirkan dan membesarkan hingga sekarang. Kasih sayang mereka tidak akan tergantikan, kerja keras serta do'a mereka tidak pernah berhenti untuk kesuksesan sang buah hati. Terimakasih juga kepada Melgis Dilkawaty Pratama sebagai kakak kandung yang selalu memberikan dorongan serta motivasi tempat bercerita dan meminta solusi, dan Melgisaputra Dwinanda abang tersayang yang selalu memotivasi saya untuk menjadi contoh yang baik kedepannya. Kepada saudara, teman yang selalu ada ketika susah maupun senang juga membantu untuk menyelesaikan Tugas Akhir ini, saya ucapkan terima kasih. Semoga kita selalu dalam lindungan *Allah Subhanhau Wa Ta'ala*, *Aamiin*.

UIN SUSKA RIAU

KATA PENGANTAR

Assalamu'alaikum Warahmatullah Wabarakatuh

Alhamdulillah Rabbil'Alamin, peneliti ucapkan sebagai bentuk rasa syukur atas kehadiran Allah Subhanhau Wa Ta'ala atas berkat rahmat dan karunia-Nya peneliti dapat menyelesaikan penelitian dan sekaligus penulisan laporan Tugas Akhir dengan judul "*Centralized Information System For Data Services Of The Pekanbaru High Court Decisions*". Shalawat beserta salam peneliti haturkan kepada Nabi Muhammad Shallallahu'Alaihi Wa sallam dengan mengucapkan "*Allahu-ma Sholli'ala Muhammad Wa'ala Ali Muhammad*".

Laporan ini disusun sebagai salah satu syarat untuk memperoleh gelar Sarjana Komputer pada Program Studi Sistem Informasi Fakultas Sains dan Teknologi Universitas Islam Negeri Sultan Syarif Kasim Riau. Selama proses pengerjaan Tugas Akhir ini peneliti memperoleh pengetahuan dan bimbingan serta dukungan dari banyak pihak.

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7. Bapak M. Afdal, ST., M.Kom sebagai Penguji II Tugas Akhir yang senantiasa

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asa dengan sabar membimbing serta mengarahkan peneliti agar Tugas Akhir ini menjadi lebih baik.

8. Bapak dan Ibu dosen Program Studi Sistem Informasi yang telah sabar dan ikhlas untuk mengajarkan dan mendidik peneliti hingga mendapatkan ilmu yang bermanfaat.
9. Ayahanda Almarhum Rasyid dan Ibunda Salmah sebagai kedua orang tua yang menjadi motivasi utama peneliti untuk menyelesaikan Tugas Akhir.
10. Kakak Melgis Dilwaky Pratama dan Melgisaputra Dwinanda sebagai kakak dan abang yang selalu memotivasi dan membantu peneliti untuk menyelesaikan Tugas Akhir.
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Semoga bantuan dan bimbingan yang telah diberikan menjadi amal jariyah dan mendapatkan balasan yang setimpal dari *Allah Subhanahu Wa Ta'ala*. Peneliti menyadari bahwa dalam penulisan Laporan Tugas Akhir ini masih banyak kesalahan dan kekurangan. Oleh karena itu, kritik dan saran sangat diharapkan untuk kesempurnaan laporan ini. *Wassalamu'alaikum Warahmatullah Wabarakatuh*.

Pekanbaru, 10 Januari 2023

Peneliti,

UIN SUSKA RIAU

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LETTER OF ACCEPTANCE

THE 2ND INTERNATIONAL CONFERENCE ON INTELLIGENT CYBERNETICS
TECHNOLOGY & APPLICATIONS 2022
(ICICyTA 2022)

DECEMBER 15TH-16TH, 2022 | VIRTUAL CONFERENCE

November 28th, 2022,
Melgisatria Trinanda,
Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

Dear Melgisatria Trinanda,

On behalf of the ICICyTA 2022 Program Committee, we have the pleasure to inform you that your paper titled "**Centralized Information System for Data Services of the Pekanbaru High Court Decisions Pekanbaru**" has been **ACCEPTED** to be part of the ICICyTA 2022 Conference which scheduled to be held virtually on December 15th-16th, 2022.

Furthermore, we ask you to consider reviewers' comments to prepare your camera-ready version. The reviewers' comments were appended at the notification of acceptance email. In addition, please check again IEEE conference template and make sure that your paper follows the template.

The reviewers had been working hard to provide valuable suggestions. We suggest that you revise your paper in light of ALL of their comments.

Bandung, November 28th, 2022



Satria Mandala, Ph.D.

General Chair ICICyTA 2022

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Centralized Information System for Data Services of the Pekanbaru High Court Decisions

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Abstract—The progress of information technology is currently very rapid, so it forms a way of life that is widely influenced by electronics. It can improve the performance of the company or agency. The performance of the Pekanbaru High Court in the information service desk was not optimal due to routine data collection, so there was no comprehensive information on how the performance of the Pekanbaru High Court had improved, such as services satisfaction reports. It was a serious problem because the Supreme Court would assess the Information Desk at the High Court in its jurisdiction at any time. The solution to this issue was to develop a centralized information system for web-based Pekanbaru High Court decision data services that could support the performance and services of the Pekanbaru High Court. The method used the Prototype method using Unified Modeling Language (UML) tools. This research used 9,344 data records. The system carried out several tests, namely black box testing with five devices with a mean success rate of 100%. In addition, the results of the User Acceptance Test (UAT) test obtained the interpretation criteria Strongly agree with the range of 81 percent up to 100 percent and met the user's functionality requirements.

Keywords—prototype, UML, blackbox, user acceptance test

I. INTRODUCTION

Information technology is a crucial requirement in improving an agency's performance in carrying out its main tasks [1]. The utilization of information technology can improve the performance of companies, organizations, or agencies [2], [3]. It is supported using computer applications to provide information quickly and precisely. Searching for this information can be done anytime and anywhere. One form of implementation is using this application in the fields of health, education, courts, and others [4], [5].

Courts are a form of implementation, in this case, one of which is the high court. The Pekanbaru High Court is currently improving its services in the field of Information Technology, which is listed in the Pekanbaru High Court Strategic Plan, namely technology for improving performance and improving the quality of public services at the Pekanbaru High Court [6]. The service for information applicants from the Pekanbaru High Court is not optimal due to the absence of systematic data collection, so it is not known how the performance of the Pekanbaru High Court has improved, such as satisfaction with the services provided. Furthermore, sometimes the data

collection of applicants for information is not regularly carried out by information desk officers. It becomes a problem because the Supreme Court will at any time assess the Information Desk at the High Court in its jurisdiction.

This research was conducted using case data. Case data is divided into two, namely criminal cases and criminal and civil cases. Based on *Badan Pusat Statistik* (Central Agency on Statistics) data, according to the regional police, criminal cases in Riau province continue to increase dramatically. The number of criminal cases in Riau province is very high, reaching 7,246 in 2018 [7]. The total case data in the Pekanbaru High Court in 2021 - 2022 was 9,344. [8]. So far, this data has only been used as material for recapitulation and publication [9].

This research uses the Prototyping model. Prototyping is a system development method by developing a prototype to assist in getting a more detailed picture of system specifications. [10]. As research conducted by [11], [12], [13]. The advantage of this prototyping model is that it saves development time with good communication between developers and customers. [14]. The disadvantage of this prototyping model is that the design analysis process is too short and less flexible in dealing with changes. [15].

In research conducted by Musdar & Arfandy [16], the method used the Prototype method. The tourism information system could run via mobile android by presenting tourism information, including 110 tourist destination information, 45 culinary information, 39 event information, and photos of tourist attractions from 12 districts. The system test results showed that the features were successfully developed and functioned properly. Therefore, in this study, a centralized service information system will be built using the prototype method and UML tools. This research also used black box testing and final testing to validate that the system built was based on user requirements using UAT user-accepted testing. Appropriate information technology can help and facilitate information desk officers to quickly provide information to the applicant and is expected to provide good performance for the Pekanbaru High Court regarding information services [17].



II. LITERATURE REVIEW

A. Information Systems

The information system contains three primary activities: input, processing, and output. In addition, these three basic activities produce the information an organization needs to make decisions, control operations, analyze problems, and create new products or services. Furthermore, input plays a role in raw data collection obtained from within and the environment around the organization [18]. The system is an interconnected activity collected in a certain way to form a unity to achieve a goal [19], [20]. Information is a form of data processing that can provide users with meaning and benefits in decision-making [21].

B. Prototype

The prototype method is a development system used to collect information so that users can easily interact and develop an initial picture of the system to be built [22]. The model's purpose is to obtain the system or application overview that will be designed and evaluated by its users [23], [24]. Evaluation in this prototype method is carried out to get a system that is based on the needs of its users, and the evaluation results will be used as a reference in making the system [25].

C. Unified Modeling Language (UML)

UML is a language used to define, visualize, build, and document an information system [26], [27]. The use of UML in the industry continues to increase. It is an open standard and a common modelling language in the software and systems development industries. UML consists of many diagrams, including use case diagrams, activity diagrams, sequence diagrams, and class diagrams [28], [29].

D. Black Box

Black box testing is only based on the system's functional requirements or behaviour testing [30], [31]. In black box testing the tester only knows the input (the process of a system) and the treated output parts. In other words, the tester does not have to know the internal workings of a system [32], [33].

E. User Acceptance Testing

User Acceptance Testing is a test of the system developed with the tester, the user. Through this testing, documents are produced and can be used as evidence. Users can prove that the user accepts the development and considers the needs fulfilled by the test results [34]. The Likert scale is a non-comparative scaling technique with unidimensional properties (one trait that can be measured). In contrast, the Likert scale studies strongly disagree, disagree, neutral, agree, and strongly agree [35].

The planning stage is the initial stage before conducting research in general. This stage identified problems by observing the problems that occurred in the Pekanbaru High Court. The problem was that the service provisions were not optimal because they did not collect data regularly. Consequently, there was no information on the performance of the Pekanbaru High Court, such as service satisfaction.

At the data collection stage, observations, interviews, and secondary data were carried out. Data included information related to the problems faced and obtained from the decision directory website. The data used 9.344 data records.

The analysis and results phase carried out at this stage is the analysis of the ongoing system at the Pekanbaru High Court and the District Court in its area to identify problems that arise in the current system. The analysis of the system was web-based, carried out entirely online, starting from registration, collecting data on information applicants, and searching for the required information. The system was designed using UML modelling and included Case Diagram models, Class Diagrams, Sequence Diagrams, and Activity Diagrams.

The implementation and testing stage carried out at this stage was to build a System and Database. In building the system, it used the PHP programming language, MySQL database, and Laravel framework as a framework in making the system. It implemented the developed system to provide information services to users with the developed analysis stage and the system design stage.

System testing used Black Box Testing to examine the software's overall functionality. In addition, system testing also used User Acceptance Testing. In other words, the users of the system ran the testing. This stage ensured that the functions on the system examined whether the system had been running correctly and based on user needs.

IV. RESULT AND ANALYSIS

A. Ongoing System Analysis

The system currently running at the Pekanbaru High Court in the information desk section was that the information desk officer must record the identity of the applicant or the person who needed information, such as to consult in the case of the public who needed information on how to proceed with the trial, files, and others by providing a sheet. A form that the applicant must fill in. Furthermore, the form was returned to the information desk officer to be recorded in the information desk ledger. Then the officer asked about the complaint to be submitted or the information needed by the applicant. Suppose the applicant aimed to require information that could only be obtained from the public relations department; in that case, the information desk officer confirmed in advance to the public relations department whether the public relations department could serve the applicant at that time or not. The applicant could immediately consult with public relations if public relations were available. If public relations were not available, then the applicant had to wait.

B. Follow-up System Analysis

For the problems in the Pekanbaru High Court at the Information Desk section, this research proposed a system that could assist the Information Desk officers in filing appeals against applicants who came to the Pekanbaru High Court to seek information. This system also could make more precise

III. METHODOLOGY

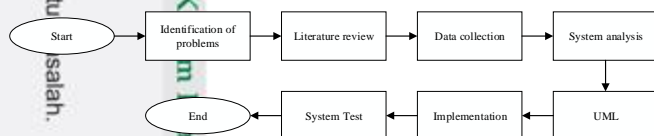


Fig. 1. Research methodology



3) Information Desk Page View

The information desk page is to confirm requests for information from the case party. The application consists of case information, trial schedule and questions about the court.

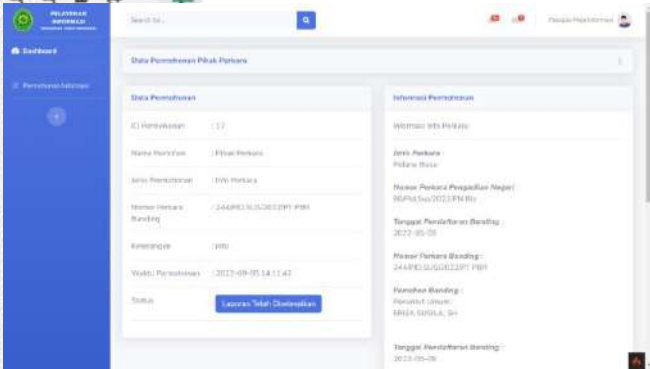


Fig. 8 Information desk page

4) Admin Page View

The admin page aims to manage users and requests for information from the case party.

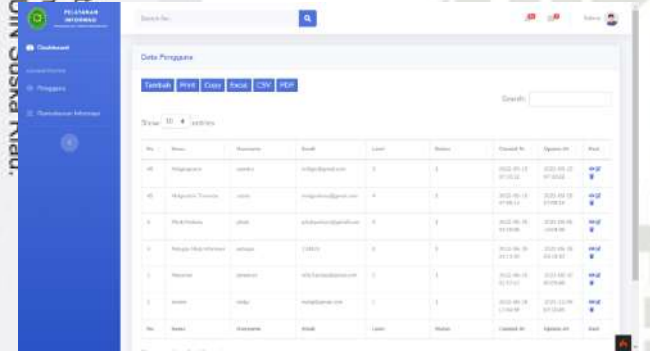


Fig. 9 Admin page

5) Leaders Page View

The leaders can manage and view data from the case's request on this page.

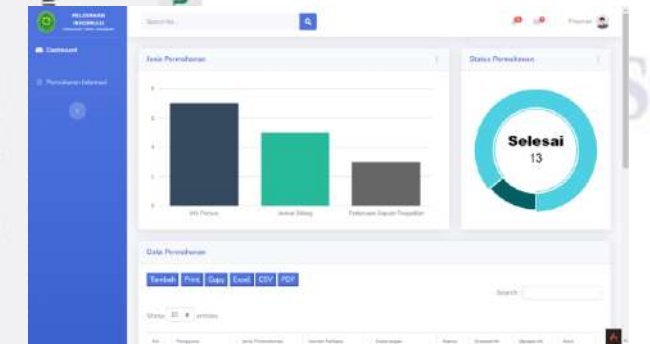


Fig. 10 Leaders page view

E. Blackbox Test Results

system testing used the Blackbox testing method. It was carried out on five devices used by High Court employees with different specifications, and the system was installed.

Table 1. Blackbox test results

NO	Device	Success	Fail	Level of success
1	Device 1	4	0	100%
2	Device 2	8	0	100%
3	Device 3	4	0	100%
4	Device 4	8	0	100%
5	Device 5	4	0	100%

F. Test Results Of User Acceptance Test (UAT)

The following are the results of the recapitulation of the assessment of using the Centralized Information System application for the Pekanbaru High Court Decision Data Service using a Likert scale calculation.

Table 2. Calculation results of user acceptance test

NO	Questions	Scale					Total
		5	4	3	2	1	
1	Do you agree with the existence of a Centralized Information System for Data Services for the Pekanbaru High Court?	30	16				92%
2	Is this Centralized Information System for Court Decision Data Services easy to use?	20	24				88%
3	Does this Centralized Information System for Court Decision Data Services work as expected?	25	20				90%
4	Does the menu on the Centralized Information System for Case Decision Data Services meet the needs?	15	28				86%
5	Does the information on the system is based on what you need?	35	12				94%
6	Do you think this Centralized Information System for Court Decision Data Services looks good?	40	8				96%
7	Do you agree that there are no errors in the menu and all buttons on the Central Information System for Court Decision Data Services?	50					100%
8.	Can this Centralized Information System for Judgment Data Services work as you expected?	45	4				98%
9.	Is this Centralized Information System for Court Decision Data Services feasible to use?	35	12				94%
10.	Does this Centralized Information System for Case Decision Data Services make it easier for case parties?	25	20				90%

The results of the User Acceptance Test are documents that show evidence of testing. The results of ten UAT test respondents obtained interpretation criteria with a range of 81% - 100%. From these percentages, the results of respondents strongly agree.



V. CONCLUSION

The results of tests on a centralized information system for data services for the decisions of the Pekanbaru High Court showed that the developed information system had met the functionality requirements. The information system provided court statistical information, total cases, district court data, case information, trial information, and questions about the court. Procurement of this information system could improve performance and ease the work of information desk officers in collecting data on applicants who come to the Pekanbaru High Court. Procuring this information system was also evidence that the Pekanbaru High Court had participated in improving the quality of using efficient information technology as stated in its strategic plan. The suggestion for further research is to develop a virtual assistant feature in either a WhatsApp bot or a telegram bot and be integrated with other court service systems. This feature is expected to develop well communication between the court and users and enhance the process of court service systems.

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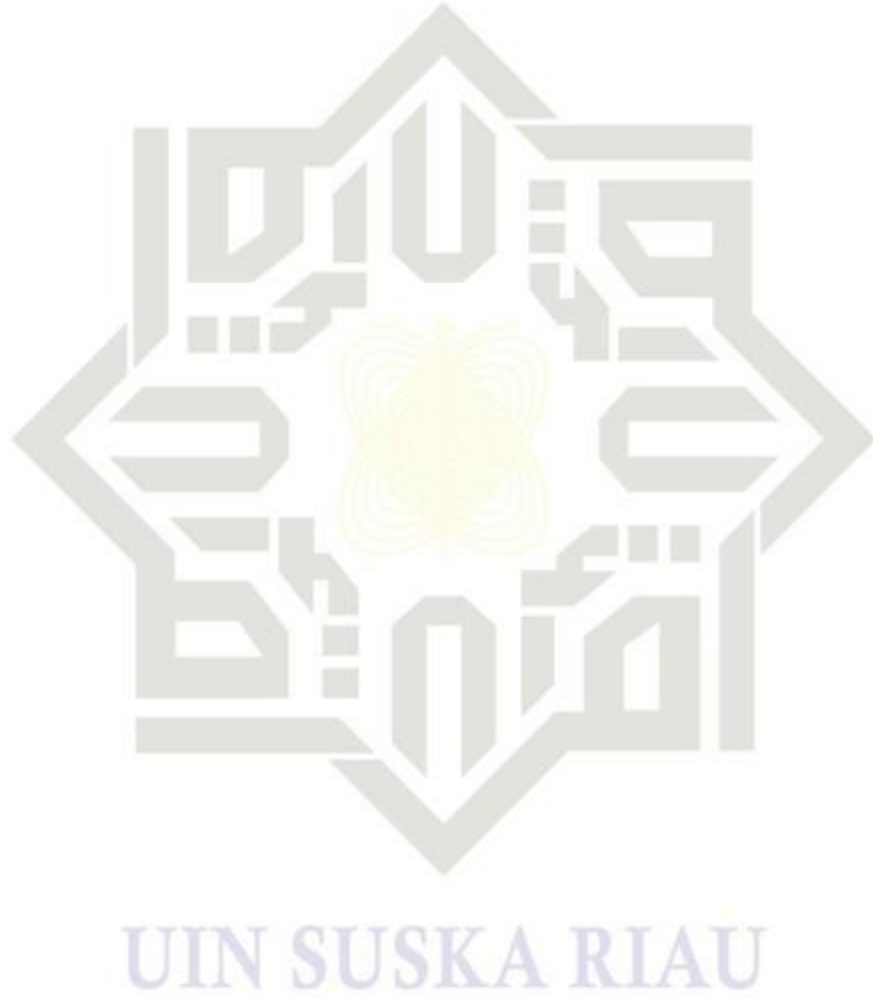
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LETTER OF ACCEPTANCE

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(ICICyTA 2022)

DECEMBER 15TH-16TH, 2022 | VIRTUAL CONFERENCE

November 28th, 2022,
Melgisatria Trinanda,
Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

Dear Melgisatria Trinanda,

On behalf of the ICICyTA 2022 Program Committee, we have the pleasure to inform you that your paper titled "**Centralized Information System for Data Services of the Pekanbaru High Court Decisions Pekanbaru**" has been **ACCEPTED** to be part of the ICICyTA 2022 Conference which scheduled to be held virtually on December 15th-16th, 2022.

Furthermore, we ask you to consider reviewers' comments to prepare your camera-ready version. The reviewers' comments were appended at the notification of acceptance email. In addition, please check again IEEE conference template and make sure that your paper follows the template.

The reviewers had been working hard to provide valuable suggestions. We suggest that you revise your paper in light of ALL of their comments.

Bandung, November 28th, 2022



Satria Mandala, Ph.D.
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Paper ID : 1570857873
 Paper Title : Centralized Information System for Data Services of the Pekanbaru High Court Decisions Pekanbaru

Received from	Melgisatria Trinanda
Amount	Three Million Three Hundred Thousand Rupiah
In Payment of	Registration Fees as Participant in ICICyTA 2022
Payment Date	December 9 th , 2022

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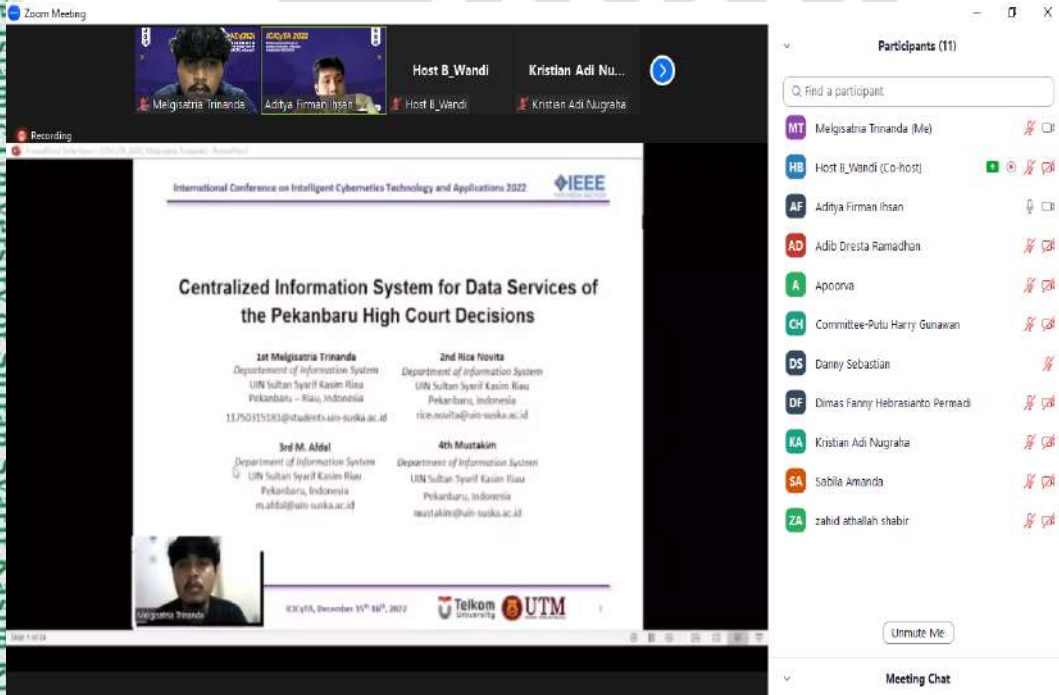


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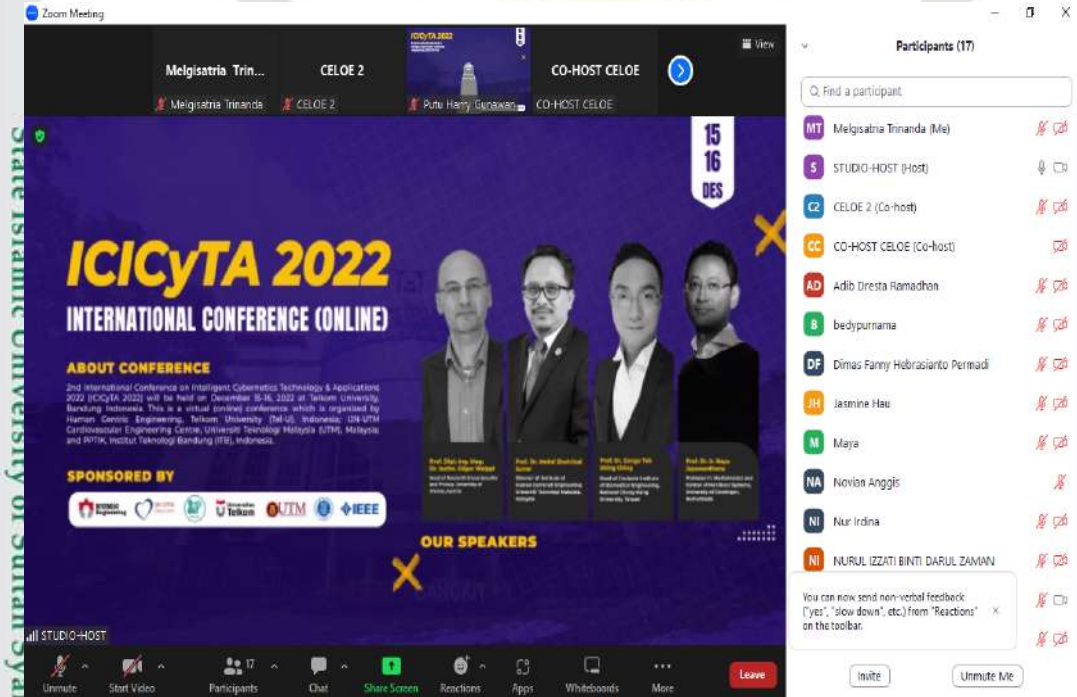
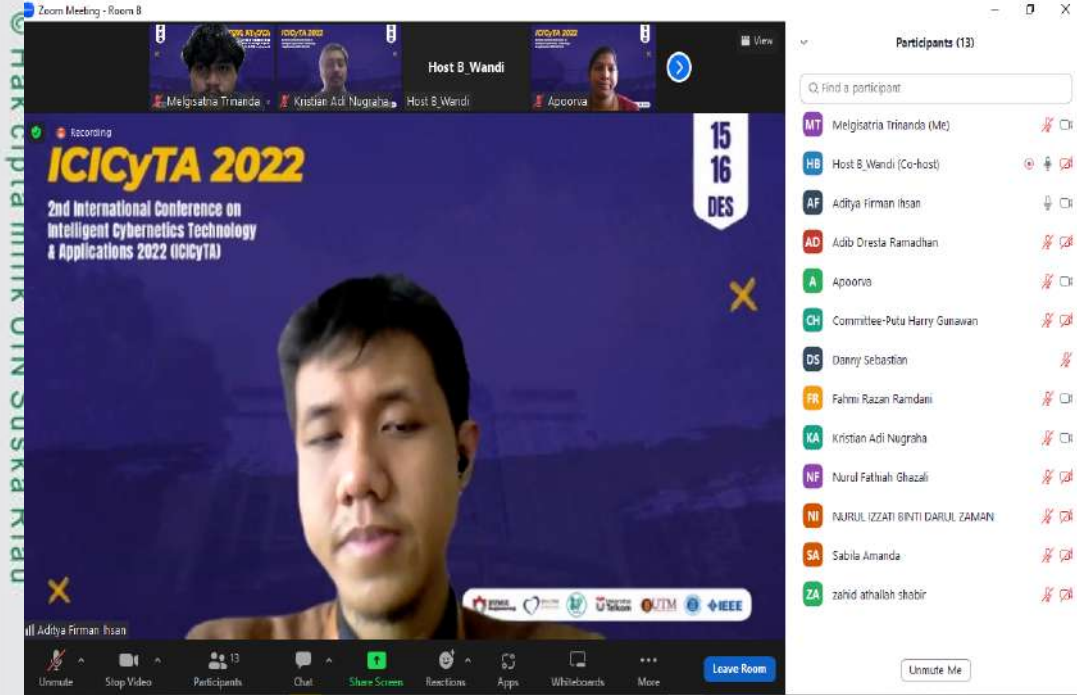
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DAFTAR RIWAYAT HIDUP



Peneliti bernama Melgisatria Trinanda lahir di Kota Pekanbaru pada tanggal 13 November 1998. Merupakan anak bungsu dari Almarhum Bapak Rasyid dan Ibu Salmah yang memiliki satu kakak perempuan dan satu kakak laki-laki. Peneliti beralamat di Jl. Merpati Sakti Perumahan Cendrawasih Blok E.19. Kontak Peneliti dengan alamat email 11750315183@students.uin-suska.ac.id. Peneliti menyelesaikan pendidikan dasar di SD-N 024 Pekanbaru tahun 2011, kemudian menyelesaikan sekolah menengah pertama di SMPN 23 Pekanbaru tahun 2014 dan sekolah menengah atas di SMKN 2 Pekanbaru pada tahun 2017. Peneliti melanjutkan pendidikan di Universitas Islam Negeri Sultan Syarif Kasim Riau pada Fakultas Sains dan Teknologi dengan mengamil Program Studi Sistem Informasi. Peneliti melakukan kerja praktek pada tahun 2019 di PT Sinar Kelapa Indonesia dan juga mengikuti Kuliah Kerja Nyata di Kubang Raya pada tahun 2020. Peneliti juga aktif menjadi panitia kegiatan dan juga mengikuti kegiatan yang dilaksanakan oleh jurusan.

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