

INTERCONNECTION SYSTEM FOR DEVELOPMENT OF DCIRV BASED ON ARTIFICIAL INTELLIGENCE FOR EDCOMM IN ASIA, EURO AND CANADA

Deni Darmawan, Elizabeth Garderre, Ethien Damome, Destiny Tchehouali, Memen Kustiawan, Ikin Solikin, Andi Faisal Bakti

Abstract

The development and utilization of VCDLN-TVUPI products have been successful in Indonesia, Japan, and Korea through Experts from Bordeaux France. Furthermore, to strengthen and expand future innovation, research in 2024-2025 will build a Digital Innovation Center for the Development of VCDLN Robots (DCIRV) based on Artificial Intelligence. So the focus of this research will include DCIRV Network Updates to the VCDLN Database Center and API (Applications Programming Interface); Content Recommendation Chatbot and Localization. Thus, the method that will be used is the ADDIE model (Analysis, Design, Development, Implementation, and Evaluation). The location where DCIRV will be developed is at the Indonesian Smart Robot International Center on the Regional Campus UPI Cibiru. To ensure the quality of research products which include prototypes, automation systems, content development, and other delivery systems, they will be supported by experts and user samples from Asia, Europe, and Canada as a form of implementation of collaborative research between UPI, Bordeaux University and the University of Quebec, McGILL Montreal Canada.

Keywords: VCDLN, Robotic, Artificial Intelligence, DCIRV

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CHAPTER I

INTRODUCTION

1. Research Background

Innovation products must not be stopped due to regulations and changes in institutional systems, but innovation products such as VCDLN must continue to provide benefits. In the era of the digitalization shift which is more focused on utilizing products and ideas that are currently viral, namely Artificial Intelligence, in 2023 VCDLN was able to adjust its framework through the contribution of ideas from experts from Bordeaux University, France. [1].

One of the updates in terms of systems, services and VCDLN content production which already has multi-platform usage has now gathered around 3857 productive educators. The content being managed totals 3827 contents covering all levels of education. Intellectual property in the field of open digital learning education services requires central support from learning resources and a more modern service system. The modernity aspect of the development of digital learning centers is not so much developed but is built based on continental regions, such as Magma Learning which represents European countries, then Liquid Learning [2] which represents the Asia Pacific region, and of course, VCDLN (2021) which represents Southeast Asia, Korea and Japan. Thus, the existence of the VCDLN innovation has begun its development by utilizing the advantages of Artificial Intelligence [3], it will be accommodated in the form of an Innovation Center that applies intelligent Indonesian Robotics engineering. Several studies that will strengthen the background of VCDLN-Robotics with the support of Artificial Intelligence will bring success to the Indonesian University of Education in providing Hybrid Learning services with the strength of the Digital Innovation Center Robotic VCDLN (DICRV) Institute.

By reflecting on institutionalized digital innovation at the international level, it is very important to support the quality of universities, of course development research in this case must continue to be carried out. As one of the strengths of an international institution like Luquid, it has also developed on the European continent, driven by [4]. Named Magma Learning. Of course, it is an international institution that accommodates and manages the products of world innovators. It is time for Indonesia through UPI to be able to develop further through VCDLN. This feature

involves creating a central database to store all data related to the VCDLN platform and other information. This database is designed to be accessible through various user interfaces (User Interface) with the implementation of API. The use of API allows for greater data transactions in the application, making the data management process more efficient and integrated. In addition, by updating the central database and having created an API, it makes it easier if there is a VCDLN platform Handover program.

This feature allows users to receive learning content recommendations according to the instructions they provide. By utilizing Artificial Intelligence (AI) technology and Natural Language Processing (NLP) algorithms, this chatbot is able to understand user requests and recommend relevant material bundles that are in accordance with user preferences. This feature allows users to receive learning content recommendations according to the instructions they provide. By utilizing Artificial Intelligence (AI) technology and Natural Language Processing (NLP) algorithms, this chatbot is able to understand user requests and recommend relevant material bundles that are in accordance with user preferences.

Where the VCDLN of the future has been infused with both systems, digital governance, and the expansion of networking using a frame work from Artificial Intelligence. Moreover, VCDLN has 3 years of experience in building extraordinary systems, networks, content and dissemination, so for the next 4 years it is targeted to become the strength of DCIRV which has international networking. Based on this background, several objectives of this research include:

- 1) Redesign and develop the Digital Central Innovation for Robotic VCDLN (DCIRV) prototype for Updates to the VCDLN Database Center and API (Application Programming Interface for Communication);
- 2) Developing a European-Canadian Expert Review document on the Digital Central Innovation for Robotic VCDLN (DCIRV) Prototype with support from Content Recommendation Chatbot communication;
- 3) Developing an AI-based Digital Central Innovation for Robotic VCDLN (DCIRV) for localization going up for digital planet educational technology communication.;
- 4) Review of the Digital Communication Impact from DCIRV through Dbase Centre and API Technology to open Distance Learning in Euro, and Asia.

In accordance with the presence of foreign partners from the company PT. Tchain from Korea as a long-standing partner also includes the Yandex Company from Russia, so this research is also supported by the Laboratory from Bordeaux University and Letter Agreement research from UQAM Canada. In this way, it is hoped that it will be able to strengthen support for the success of this research which will produce the following products: (1) Prototype Digital Central Innovation for Robotic VCDLN (DCIRV); (2) European-Canadian Expert Review Document on Digital Central Innovation for Robotic VCDLN (DCIRV) Prototype; (3) AI-Based Digital Central Innovation for Robotic VCDLN (DCIRV) Manual Book; (4) Journal Publication Articles Indexed by Scopus Q2 and; (5) Developing a VCDLNLearning robot based on Mobile IOS; (6) Monography book on Digital Central Innovation for Robotic VCDLN Based on Artificial Intelligence.

2. Research Purpose

Based on the background above, the objectives of this research include:

- 1) How to Redesign and develop the Digital Central Innovation for Robotic VCDLN (DCIRV) prototype for Updates to the VCDLN Database Center and API (Application Programming Interface)?;
- 2) How to Developing a European-Canadian Expert Review document on the Digital Central Innovation for Robotic VCDLN (DCIRV) Prototype with support from Content Recommendation Chatbot?;
- 3) How to Developing an AI-based Digital Central Innovation for Robotic VCDLN (DCIRV) for localization going up for digital planet educational technology communication ?;
- 4) How far from the Digital Communication Impact from DCIRV through Dbase Centre and API Technology to open Distance Learning in Euro, and Asia?.

3. Research Urgency

Research is important to carry out as a continuation of a series of continuous innovations in order to build a Digital Learning Center that utilizes Artificial Intelligence. As a continuation of previous research in the context of VCDLN Robotics which is aimed at educators more fully with the birth of the IOS-based VCDLN-Learning product. Innovation products from VCDLN-Learning

have previously been successfully evaluated and have been widely used by teachers. Furthermore, to increase the quality of the digitalization aspect based on the AI framework, it is necessary to develop the next Digital Central Innovation which is able to accommodate the activities of innovators, both educators and students and teachers more broadly.

Another important aspect of conducting this research is the increasing attraction from industrial partners and international researchers. As in previous years, the research focus of VCDLN-Learning involved the company, the are PT. Tchain from South Korea, PT. Expert Teacher from Jakarta, PT. MSN Group. In 2024, another new industrial partner from Russia will be added, namely the Yandex Company. Likewise with international university partners such as Bordeaux University from France, Quebec Montral University from Canada, and NDHU from Taiwan. The research roadmap that has produced the VCDLN-Learning product will also be realized in the form of a Physical Robot as a marketing strategy for all innovations resulting from this research for the next 4 years.

From the description above, the research will focus on the Robotic Automation System in DCIVR that will be built. On the other hand, because there are framework aspects of Artificial Intelligence, as well as support from research team partners in the field of Software Engineering, this research must continue to be sustainable with products that can enter the industrial world, universities, university level, educational organizations, government and private sectors. . With the new product in addition to the innovation center, there are also partners who will be able to promote VCDLN-Learning products more widely by utilizing the AI framework.

CHAPTER II

LITERATURE REVIEW

As discussed in the introduction above, a number of innovations have sprung up and are unconsciously able to cultivate "Culture Education Practices". For example, the analysis of [5] has so far recorded that 34% of the consultation process in education services is carried out online, and the practice of education has reached 33% [6].

1. Quality Control of VCDLN-Learning

From this series of regulations, the authors still remember the milestones that have been described in the following chart.

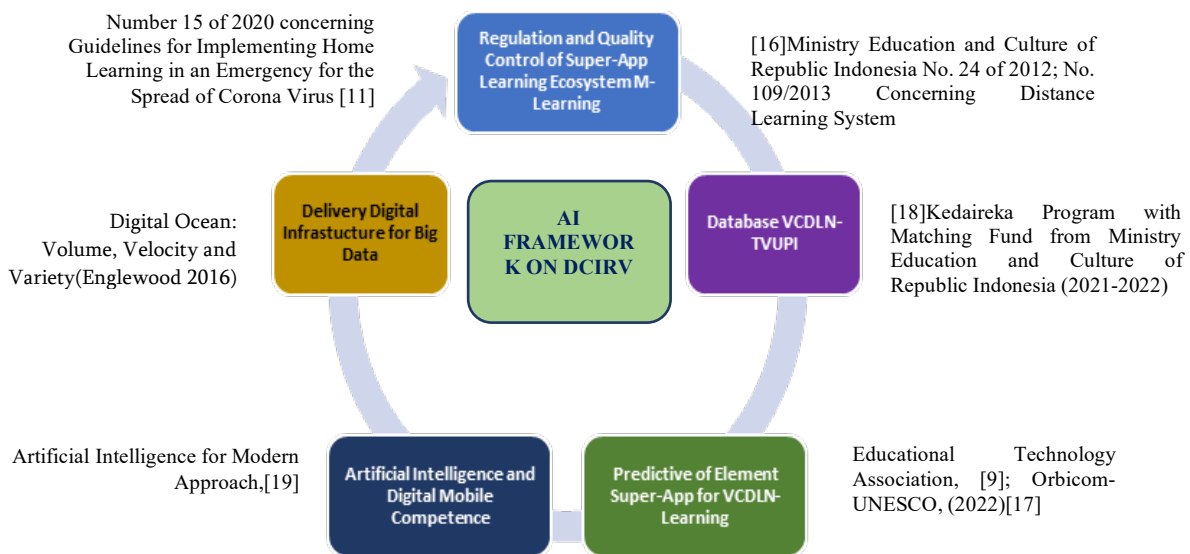


Figure 1 Milestones Distance Learning & Online Learning in Indonesia Through Digital Centre Innovation for VCDLN Based on Artificial Intelligence

Innovation and learning services with the VCDLN multiplatform, which have been built 3 years ago, have become the core business for partners and central innovation, including at the Cibiru Campus. From these best practices, to ensure the continuity of innovation and dissemination, a number of policy and scientific foundations have become a force in producing new innovations as

developed in research in 2024 regarding DCIRV. Especially those that strengthen the application aspects of how Artificial Intelligence works[7] in the education and learning service products produced.

2. Robotics of VCDLN

Robotics is a branch of engineering and computer science that involves the conception, design, manufacture and operation of robots. The objective of the robotics field is to create intelligent machines that can assist humans in a variety of ways. Robotics can take on a number of forms. A robot might resemble a human or be in the form of a robotic application, such as robotic process automation, which simulates how humans engage with software to perform repetitive, rules-based tasks. While the field of robotics and exploration of the potential uses and functionality of robots has grown substantially in the 21st century, the idea certainly isn't new. (Kinza Yasar, 2023). The Robotics work system that will be adopted in this research product leads to the development of a working system for the player robot chatbot product on IOS for practitioners, educators, and students.

Some important elements in the implementation of VCDLN can be analyzed in a flashback regarding several terms and objects or target subjects that we often call and use in educational practice. For example, the terms software, hardware, brain ware, and environmental ware. Likewise, in the analysis, a new concept or model may soon be put into practice in the paradigm of system service implementation and education and learning communication strategy which the author named VCDLN-Learning Based on AI. This purpose was supported [6]. Where the results of the analysis of these elements can be seen in the following chart. There are several important components in developing a robotics system in the VCDLN speed service flow which is integrated with a number of IOS mobile phone systems[8] as a stage for improving the Mobile Learning Blended service. This product has been the main stage for 3 years before marketing with partners to touch various parties and various regions in Indonesia.

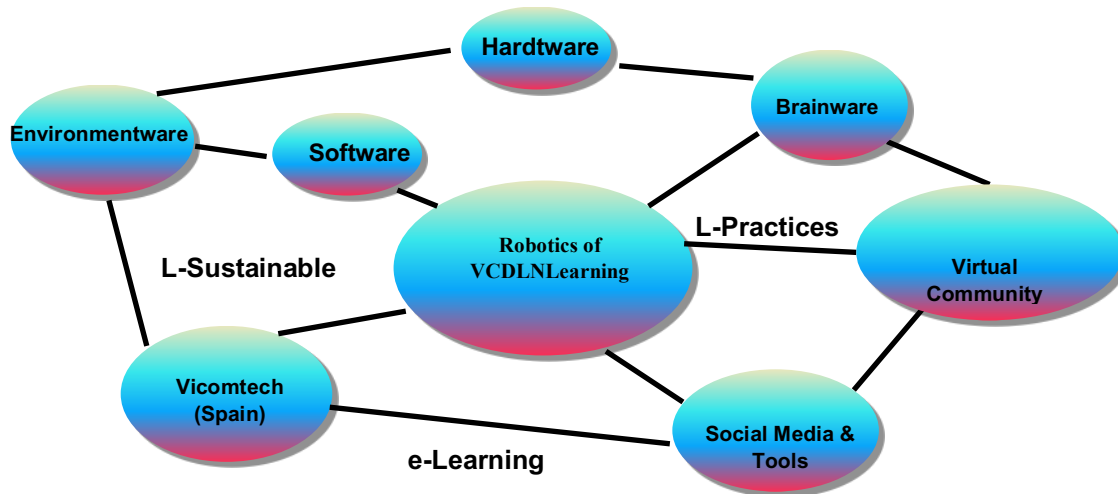


Figure 2 Element of Robotic VCDLN Based on AI
 (Source: Adoption form Association of Educational Technology Study Program Organizers)[9]

3. Artificial Intelligence dalam Kontek DCIVR

The concept of what defines Artificial Intelligence (AI) has changed over time, but at its core has always been the idea of creating machines capable of thinking like humans [3]. AI is uniquely able to interpret the world around us and use the information we take in to make changes. So AI can help humans do this more efficiently, and AI can be thought of as simulating the capacity for abstract, creative, deductive thinking and especially the ability to learn using digital, binary computer logic [3]. Thus, the application of AI in this research will relate to how the database system, access, and selection of appropriate learning content for educators and students are assisted quickly by AI. Where the form of application that will be developed is in the form of Mobile IOS to access content from online databases <http://vcdln-tvupi.com> maupun dari <http://vcdlnlearning.com>.

Generalized AI goes a little further – to perform a complete simulation of the human brain would require a more complete understanding of the organ than we currently have, and more computing power than is generally available to researchers. But that probably won't be for long, considering the speed at which computer technology is developing. A new generation of computer chip technology known as neuromorphic processors is being designed to run brain simulator code more efficiently. Systems such as IBM's Watson cognitive computing platform [3], uses high-level simulations of human neurological processes to perform an ever-expanding variety of tasks without

being specifically taught how to do them. In its application for this research it will be used to create a simulator.

4. Roadmap of Digital Center Innovation Robotics of VCDLN (DCIRV)

Where a form of VCDLN implementation in the context of the realization of this new normal condition, will allow Mobile Blended Learning based on IOS to be carried out. Of course, this Blended Learning was regulated 3 years ago in the Regulation of the Directorate of Higher Education Research and Technology No. 51 of 2020. Thus the New Normal regulation is basically an indirect form of education and learning policies with face-to-face and Distance Learning with digital systems, especially through Mobile IOS. As in the past 10 months, we feel that the practice of education is building a virtual network for the future needed for the Digital Central Innovation VCDLN in Central UPI and Kampus Cibiru. Researchers remember from one of the studies regarding the level of digital skills or literacy owned by the millennial generation or the Z-generation, where they were able to design digital learning information system lines in a number of universities [10].

If analyzed from the Regulation from Ministry Education and Culture of Republic Indonesia as policy regarding the targets of implementing full online long-distance learning at that time it is confirmed that it will produce 80% (Regulation from Ministry Education and Culture of Republic Indonesia No.51 of 2018). Thus the VCDLN concept will become a superior platform and trend for all parties related to the implementation of education and learning in a “New Normal” condition. This innovation is conducted to Regulation Letter Number 15 of 2020 Concerning Guidelines for Organizing Learning from Home in an Emergency Period of the Spread of Corona Virus Disease (Covid-19) through conduct with the[11].

Regulation No. 51/2018, in the Distance Learning & Online Learning Milestones section in Indonesia. When the initiators of the VCDLN Community in remote areas included educators who did face-to-face in the context of learning communication through mobile digital television. Where the strength of the content is presented through access to an ICT center that is built and provided by the educational television platform, it will be cheaper to finance. The following is an illustration of the Ecosystem Multiplatform Super-App VCDLN-TVUPI [1] as the Roadmap Scheme for the

Teacher Training Profession in the context of VCDLN through DCIRV Mobile of IOS as the core model in this research.

In the continuation of research oriented towards innovation products since TVUPI, LCJ TVUPI, VCDLN-TVUPI, VCDLNLearning, VCDLNLearning Android from 2016 to 2023, researchers have contributed a lot to strategies for equal distribution of educational services, equal use and service of content products and systems VCDLNLearning reaches all corners of the archipelago. To provide clarity regarding this series of research to build DCIRV for 2024-2029, the following is an image of the research roadmap for multi-year sustainability which is referred to as follows:

ROADMAP INTERNATIONAL RESEARCH

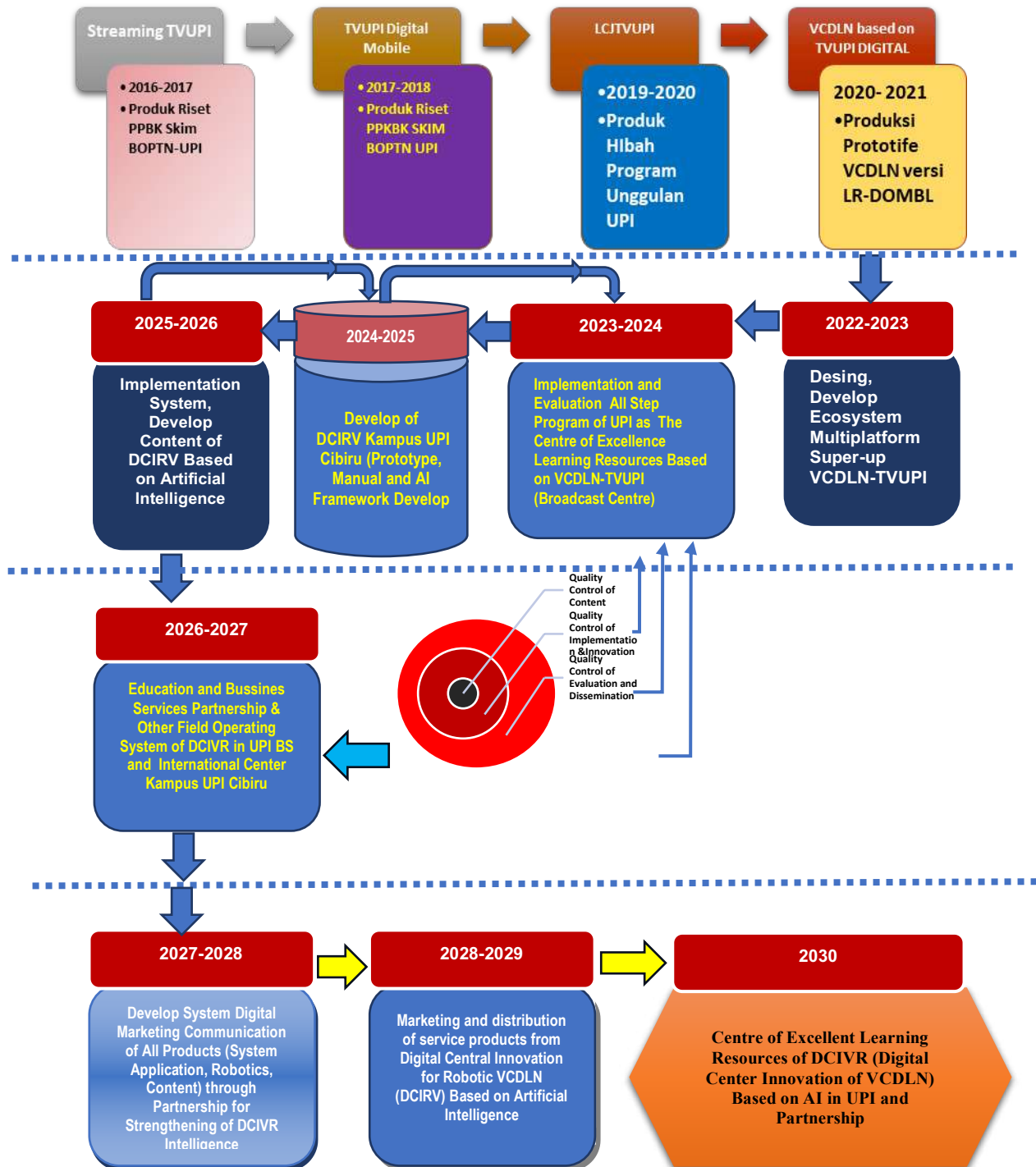


Figure 3 Roadmap of Ecosystem Multiplatform Super-App of VCDLN-TVUPI and DCIVR Based on Artificial Intelligence as The Centre of Excellence Learning Resources in UPI

CHAPTER III

RESEARCH METHODOLOGY

1. Time and Place

The research will be carried out for 10 working months, from the preparation stage to the reporting stage. The research will be conducted in four countries, Indonesia, Taiwan and Bordeaux, and Canada (the communication may be online or luring). The data from Taiwan is going to be the basic of the development while it modified to System and Content Develop for DCIVR Based on AI as well. The designing stage of System and Content Develop for DCIVR Based on AI will be developed between all researchers with NDHU Taiwan, Anhui Normal University China and Bordeaux University and Yandex , PT. Installations Artificial Intelligence, and Quebec University Montreal Canada. To obtain quality during the implementation of this learning service, service quality and access speed control of the System and Content Develop for DCIVR Based on AI through Android IOS Mobile is carried out through an Artificial Intelligence approach by an Expert.

2. Research Method

The research method is used as a plan for how a study is carried out. To be able to answer all the research problem formulations, a Research & Development (R&D) research or research methodology is often called. Research and development methods are research methods used to produce certain products and test the effectiveness of these products [12]. This research will be done with a mixed method procedure [13] to evaluate all implementation programs, however, there are some additions and grouping that make it as seen in the figure below.

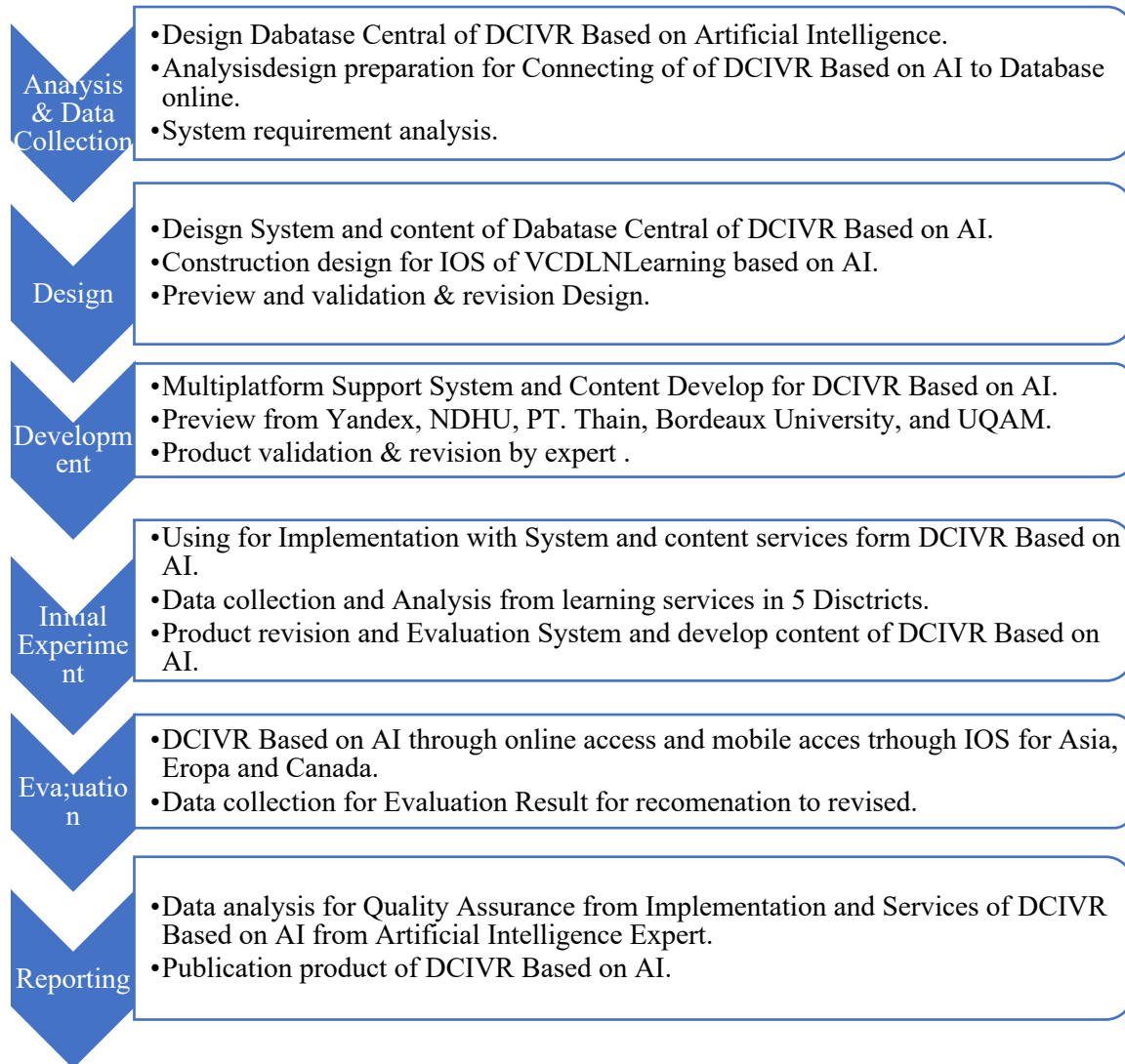


Figure 4 Research Design for DCIVR Based on Artificial Intelligence as The Centre of Excellence Learning Resources in UPI

3. Research Instrument

The research instrument in the form of questionnaire and test are used in this study. The purpose of this questionnaire is to get feedback and opinions from the research subject will be collected through FGD and the expert, in terms of user satisfaction and effectiveness of “During System, Content, and Prototife of DCIRV and Manual using guide for all educator, student and practices.”

4. Research Subject

The study was conducted with research subjects divided into two groups, namely educators, students and expert teams. The expert team is an expert in the field of multimedia, education and

Artificial Intelligence from Bordeaux University-France, University of Quebec Montreal Canada, NDHU University Taiwan. In this study the expert are some selected lecturer from Gokugei University, Tokyo Metropolitan, Tchain Expert Industry from South Korea, Yandex, Industry of Installations Artificial Intelligence, and UPI Kampus Cibiru.

The subjects of the study are teacher professional from 5 districts (Kalimantan Timur, Denpasar, Ruteng, Sukabumi, Garut), teacher delegation from NDHU Taiwan, and Anhui Normal University China. Sample selection is done purposive sampling. Creswell (2015, pp. 607-608) suggests that in Qualitative researchers can use existing distance learning VCDLN-Learning Based on Artificial Intelligence through Digital Centre Innovation of VCDLN Robotics. For analysis, The quantitative data from teacher samples from 5 districts will be using the Path Analysis Diagram [14];[15].

5. Research Schedule

This research is to be done from 2 until 12 Mont in 2025, the schedule is like this table below.

TABLE.1

RESEARCH SCHEDULE 2025th

NO	ACTIVITY	MONTH											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Analysis and data collection for Develop DCIVR Based on AI and Mobile IOS Player though API.												
2	Design Central DCIVR Based on Chatbot AI and Mobile IOS Player Studi for Implementation												
3	Development System and Content for DCIVR Based on Chatbot AI and Mobile IOS Player in NDHU, Anhui Normal University of China, Canada, and Bordeaux University												
4	Implementation and Evaluation Program of DCIVR Based on												

	Robotics AI and Mobile IOS Player in 5 Nusantara, Asia, Euro and Canada.												
5	Progress Report												
6	Final Report and Publication												

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APENDIX-1 MOA BETWEEN UPI KAMPUS CIBIRU AND NDHU UNIVERSITY TAIWAN\



**MEMORANDUM OF AGREEMENT (MoA)
BETWEEN
NATIONAL DONG HWA UNIVERSITY
AND
UNIVERSITAS PENDIDIKAN INDONESIA**



The UPI Regional Campus Cibiru, Universitas Pendidikan Indonesia, Bandung, Indonesia, and The College of Education, National Dong Hwa University, Hualien, Taiwan R.O.C., hereby agree to foster academic exchange and cooperation between the two institutions.

SCOPE OF COOPERATION

Subject to mutual consent, the areas of cooperation will include any program offered by either institution as felt desirable and feasible on either side, and that contributes to fostering and developing the cooperative relationship between the two institutions. Cooperation may be carried out through such activities as:

- Exchange of faculty and/or staff;
- Exchange of graduate and/or undergraduate students;
- Exchange of scientific materials, publications, and information;
- Exchange of cultural activities
- Joint conferences and academic programs;
- Joint research activities and publications.

These activities will be conducted after mutual consultation between the two institutions or divisions. Usually, each institution will sign a letter of agreement setting out the responsibilities of each institution for the agreed activity and such other matters as the institutions agree are necessary for the efficient achievement of the activity.

ADMINISTRATIVE RESPONSIBILITY

The UPI Regional Campus Cibiru, Universitas Pendidikan Indonesia, and The College of Education, National Dong Hwa University, shall coordinate this agreement at their respective institutions. Notification of any change in liaison officers may be made by letter.

AMENDMENTS, RENEWAL, AND TERMINATION





This Memorandum of Understanding may be modified through the mutual discussion and consent of the two institutions. It shall remain in effect from the date of signature for an initial period of five years. After that, it shall be automatically renewed each year; however, after the initial period, either institution may terminate the agreement by giving six months' written notice of such intent. Two copies of this Memorandum shall be signed, and each Party keeps one for the record, both having the same legal validity.






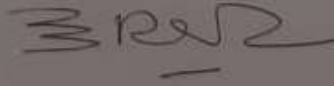
MEMORANDUM OF AGREEMENT (MoA)
BETWEEN
NATIONAL DONG HWA UNIVERSITY
AND
UNIVERSITAS PENDIDIKAN INDONESIA



In Witness of the terms of this agreement, our signatures are affixed:

<p>SIGNED BY For and behalf</p> <p>National Dong Hwa University</p>   <p>Professor. Wen-Fu Pan Dean of Faculty of Education Studies Date: 2023.10.17</p>	<p>SIGNED BY For and behalf</p> <p>Universitas Pendidikan Indonesia</p>   <p>Professor. Denti Darmawan Director for UPI Regional Campus Cibiru Date: Oktober 17, 2023</p>
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APENDIX-2 MOA UPI BETWEEN BORDEAUX UNIVERSITY - FRANCE

	<p>MEMORANDUM OF AGREEMENT (MOA) between RESEARCHER FROM UNIVERSITAS PENDIDIKAN INDONESIA and RESEARCHER FROM ORBICOM-UNESCO CHAIR BORDEAUX UNIVERSITY MONTAIGNE FRANCE</p> <p>Nomor : 101/UN40.SU.4/HM.01.5/2023</p>	
<p>The Memorandum of Agreement (MOA) is made by the two institutions through researchers below.</p> <ol style="list-style-type: none">1. Researchers Universitas Pendidikan Indonesia, West Java, Indonesia.2. Researchers ORBICOM- Unesco Chair, Bordeaux University Montaigne, France.		
<p>The collaboration embraces the following ideas:</p> <ol style="list-style-type: none">1. The main purpose of collaboration is to establish and develop scientific collaboration in the field of education, research, and community services between two institutions.2. The possible programs and activities may include:<ol style="list-style-type: none">a) Research Collaborationb) Development of joint course and education programc) Exchange of researchersd) Exchange of information including library materials and researche) Joint management and publication of the journalf) Joint conferences, seminars, and workshopsg) Joint student activities		
<p>The Memorandum of Agreement may be amended at any time by mutual consent and will be effective for a period of 5 (five) years commencing from the date of signature. It will automatically be extended for another 5 (five) years unless one of the institutions seeks to terminate it through by written notice one year prior to expiry. Two copies of this MOA shall be made, one to held by each party, and both shall serve as original.</p>		
<p>Date: June, 8th, 2023</p>		
<p>Researcher from Universitas Pendidikan Indonesia</p>  <p>Professor Deni Darmawan Orbicom Unesco Member, Universitas Pendidikan Indonesia</p>	<p>Researcher from Bordeaux University Montaigne-France</p>  <p>Professor Alain Kiyindou The Reseracher Orbicom Unesco Chair, France</p>	

APENDIX-3 MOA BETWEEN UPI AND UNIVERSITY OF QUEBEC MONTREAL-CANADA



MEMORANDUM OF AGREEMENT (MOA)

between

RESEARCHER FROM UNIVERSITAS PENDIDIKAN INDONESIA

and

RESEARCHER FROM ORBICOM-UNESCO CHAIR UQAM-CANADA

Nomor : 102/UN40/SU.4/HM.01.5/2023



The Memorandum of Agreement (MOA) is made by the two institutions through researchers below:

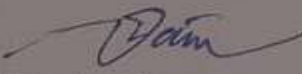

3. Researchers Universitas Pendidikan Indonesia, West Java, Indonesia
4. Researchers ORBICOM- Unesco Chair, Quebec-Montreal, Canada

The collaboration embraces the following ideas:

3. The main purpose of collaboration is to establish and develop scientific collaboration in the field of education, research, and community services between two institutions.
4. The possible programs and activities may include:
 - h) Research Collaboration
 - i) Development of joint course and education program
 - j) Exchange of researchers
 - k) Exchange of information including library materials and research
 - l) Joint management and publication of the journal
 - m) Joint conferences, seminars, and workshops.
 - n) Joint student activities.

The Memorandum of Understanding may be amended at any time by mutual consent and will be effective for a period of 5 (five) years commencing from the date of signature. It will automatically be extended for another 5 (five) years unless one of the institutions seeks to terminate it through by written notice one year prior to expiry. Two copies of this MOA shall be made, one to held by each party, and both shall serve as original.

Date: June, 8th ,2023

Researcher from Universitas Pendidikan Indonesia	Researcher from UQAM-Canada
 Professor Deni Darmawan Orbicom Unesco Member, Universitas Pendidikan Indonesia	 Professor Destiny Tchhehouali The Orbicom Unesco Chair, Canada

APENDIK-4 MOU UPI BETWEEN TOKYO METROPOLITAN UNIVERSITY

**AGREEMENT
BETWEEN
TOKYO METROPOLITAN UNIVERSITY
AND
INDONESIA UNIVERSITY OF EDUCATION
(UNIVERSITAS PENDIDIKAN INDONESIA)**

Tokyo Metropolitan University in Japan and Indonesia University of Education (Universitas Pendidikan Indonesia) in Indonesia wish to enter into the following Agreement with the objective of promoting academic cooperation and exchanges, based upon the principles of mutual equality and reciprocity of benefits, between the two institutions

I. Scope of Cooperation and Exchanges

A. Exchange of Academic Staff

Each institution may receive members of the academic staff of the other institution to give lectures, to engage in joint or individual research, or for other educational purposes.

B. Exchange of Students

Both institutions agree to implement a student exchange program under a separate Agreement.

C. Cooperation in Research

Both institutions shall strive to cooperate in research by exploring means of promoting symposia, research conferences, the exchange of academic information, the publication of research, and the collection and sharing of research materials and data.

D. Other Exchanges

The institutions shall strive to cooperate in any other educational and academic exchanges to which they may both agree.

II. Financial Matters

This Agreement imposes no financial obligation on either institution .

III. Intellectual Property Rights

This Agreement shall not be construed as any transfer or assignment of intellectual property rights between the two institutions .

IV. Data Protection

Both institutions agree to collect, process, use, disclose and otherwise manage personal information only for the purposes of fulfilling their obligations under this Agreement

Both institutions agree to ensure that personal information is not used for any purpose other than that for which it is collected.

V. Terms of Renewal, Termination, and Amendment


This Agreement shall commence from the date of the last signature.

Either institution wishing to terminate this Agreement shall notify the other institution in writing at least twelve (12) months prior to such termination. Such notification shall not affect the status of students and researchers who have already been accepted for programs initiated prior to such termination.

This Agreement shall remain in force for five (5) years from the date of its commencement. This Agreement may be amended at any time by an exchange of letters between the two institutions. Such amendments shall become part of this Agreement once approved by both institutions.

Any questions of interpretation arising out of or in relation to this Agreement shall be resolved through mutual and amicable discussion and negotiation in good faith between the two institutions.

This Agreement is drawn up in duplicate in English. Each institution shall retain each one (1) copy.



President Fumio HARASHIMA
Rector
Tokyo Metropolitan University



President Sunaryo Kartadinata,
Indonesia University of Education

19 1 0 1 2014
Day / month / year

9 1 01 2015
Day / month / year

APENDIX-5 MOU UPI BETWEEN PT. TCAHIN FROM SOUTH KOREA



MEMORANDUM OF UNDERSTANDING
NOTA KESEPAHAMAN

BETWEEN
ANTARA

PT.TCHAIN DIGITAL INNOVATION

AND
DAN

UNIVERSITAS PENDIDIKAN INDONESIA

ON
TENTANG

THE COOPERATION OF PREPARATION FOR DELIVERY OF MANPOWER TO
KOREA, AND PROVIDE FOR ONLINE TEACHING THROUGH GURU AHLI
APPLICATION

KERJASAMA PERSIAPAN PENGIRIMAN TENAGA KERJA KE KOREA
DAN PENYEDIA GURU PENGAJAR ONLINE MELALUI APLIKASI GURU AHLI

Ref. Number: 09/MOU/XI/2022

Ref. Number: 386 /UN40/HK.07.01/2022

The Memorandum of Understanding (MoU), hereinafter referred to as "Agreement" has been made and entered into effect by and between:

Nota Kesepahaman (Memorandum of Understanding/ MoU) untuk selanjutnya akan disebut "Kesepakatan" telah dibuat dan ditandatangani oleh dan antara:

- I. PT.Tchain Digital Innovation address Menara Imperium 22nd floor Jl.Rasuna Said Kav 1 Setiabudi South Jakarta in this Agreement is represented by Ismail in his capacity as President Director, therefore legally acting for and on behalf of PT.Tchain Digital Innovation, hereinafter referred to as "FIRST PARTY";and
- I. PT.Tchain Digital Innovation alamat Menara Imperium lantai 22 Jl.Rasuna Said Kav 1 Setiabudi Jakarta Selatan dalam Kesepakatan ini diwakili oleh Ismail dalam jabatannya selaku Direktur Utama, oleh karenanya sah bertindak untuk dan atas nama PT.Tchain Digital Innovation, untuk selanjutnya disebut sebagai "PIHAK PERTAMA"; dan

Pihak 1	Pihak 2

II. Universitas Pendidikan Indonesia, a state university located at Jalan Dr. Setiabudhi Number 229 Bandung, West-Java, the Republic of Indonesia, herein represented by **Prof. Dr. M. Solehuddin, M.Pd., M.A.**, as a Rector of Universitas Pendidikan Indonesia designated by the Board of Trustees Decree No. 13/ MWA/2020 on the Termination of Temporary Rector of Universitas Pendidikan Indonesia in a service of 2015-2020 and the Appointment of the Rector of Universitas Pendidikan Indonesia, in a service period of 2020-2025, therefore he has a legitimate act for and on behalf of the Universitas Pendidikan Indonesia, hereinafter referred to as “**SECOND PARTY**”.

*II. Universitas Pendidikan Indonesia, sebagai Perguruan Tinggi Negeri badan hukum, berkedudukan di Jalan Dr. Setiabudhi Nomor 229 Bandung, Jawa Barat, Indonesia, dalam Kesepakatan ini diwakili oleh Prof. Dr. M. Solehuddin, M.Pd., M.A., dalam jabatannya selaku Rector Universitas Pendidikan Indonesia, diangkat berdasarkan Keputusan Majelis Wali Amanat Universitas Pendidikan Indonesia Nomor 13/MWA/KP/2020 tentang Pemberhentian Rector Universitas Pendidikan Indonesia Pengganti Antarwaktu Masa Bakti 2015-2020 dan Pengangkatan Rector Universitas Pendidikan Indonesia Masa Bakti 2020-2025, oleh karenanya sah bertindak untuk dan atas nama Universitas Pendidikan Indonesia, untuk selanjutnya disebut sebagai **PIHAK KEDUA**.*

FIRST PARTY and **SECOND PARTY**, in this Agreement, are also individually referred to as **PARTY** or collectively as **PARTIES**.

PIHAK PERTAMA dan PIHAK KEDUA dalam Kesepakatan ini dapat juga disebut sebagai PIHAK jika disebut secara sendiri-sendiri atau PARA PIHAK jika disebut secara bersama-sama.

THE PARTIES hereby agree to cooperate in preparing Man powers to be sent to Korea and to prepare the teachers who are competence in their competencies to teach online through the GURU AHLI application

PARA PIHAK dengan ini sepakat untuk menjalin kerjasama menyiapkan tenaga kerja yang akan dikirimkan ke Korea dan menyiapkan guru guru yang ahli di bidangnya untuk mengajar online melalui aplikasi Guru Ahli

On those bases, both **PARTIES** agree to make an Agreement in the framework of education, with the following provisions.

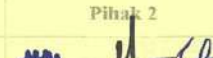
Atas dasar hal tersebut, PARA PIHAK sepakat untuk membuat Kesepakatan dalam rangka kerja sama pendidikan dengan ketentuan-ketentuan sebagai berikut.

Article 1 PURPOSE AND OBJECTIVES

THE PARTIES agreed to collaborate and prepare Manpower or student internships at South Korean companies and prepare teachers who are experts in their fields to teach online through the expert teacher application

Pasal 1 MAKSUD DAN TUJUAN

PARA PIHAK sepakat menjalin kerjasama untuk menyiapkan tenaga kerja atau mahasiswa magang di perusahaan korea selatan dan menyiapkan guru guru yang ahli di bidangnya untuk mengajar oonline melalui aplikasi guru ahli

Pihak 1	Pihak 2
	

Article 2
SCOPE OF COOPERATION

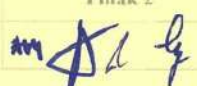
- (1) THE PARTIES agree that this cooperation covers the following areas:
- a. Preparing the Manpower to work in Korea or the internship at the companies in South Korea
 - b. Collaboration between Universities and The World of Business industry (TWBI) in preparing teachers who are competence in their competencies as an instructor and content creators contributors of digital teaching materials
 - c. The Internships for students majoring in education as on call teachers (online teachers) using the GURU AHLI application
 - d. Offering the jobs as online teachers for final semester students and or those who had graduated (Alumni) through the GURU AHLI platform
 - e. Conducting the training on creating digital content and using ICT in teaching and learning activities for online Teachers throughout Indonesia
- (2) The programs listed above are to be carried out after mutual consultation.
- (3) If necessary, details of specific programs under this Agreement will be set forth in the separate cooperation agreement and read as a part of this Agreement.

Pasal 2
RUANG LINGKUP KERJA SAMA (Dapat disesuaikan)

- (1) PARA PIHAK sepakat kerjasama ini meliputi beberapa bidang sebagai berikut:
- a. Mempersiapkan tenaga kerja yang akan di kirimkan ke Korea untuk bekerja atau magang di perusahaan perusahaan yang ada di Korea Selatan
 - b. Kolaborasi antara Perguruan Tinggi dan dunia usaha dunia Industri (DUDI) dalam menyiapkan guru guru yang ahli di bidangnya sebagai pengajar dan kontributor pembuat konten bahan ajar digital
 - c. Magang bagi mahasiswa/wi jurusan kependidikan sebagai guru online yang di panggil menggunakan aplikasi Guru Ahli
 - d. Penyaluran pekerjaan sebagai guru online untuk mahasiswa/wi semester akhir dan mahasiswa/wi yang sudah lulus (Alumni) melalui platform Guru Ahli
 - e. Mengadakan pelatihan membuat konten digital dan pemanfaatan TIK dalam kegiatan belajar mengajar untuk Guru Guru seluruh Indonesia secara online
- (2) Program-program yang tercantum di atas harus dilakukan setelah saling berkonsultasi.
- (3) Jika perlu, rincian program khusus berdasarkan Perjanjian ini akan dituangkan dalam perjanjian kerja sama yang terpisah dan dibaca sebagai bagian dari Perjanjian ini.

Article 3
ENTRY INTO EFFECT AND DURATION

- (1) This Agreement shall come into force on the date of signing and shall remain in force for a period of 5 (five) years subject to review and modification as mutually agreed upon.
- (2) Thereafter, if the PARTIES hereto wish to extend the terms of this Agreement, they shall do so by an express covenant in writing.
- (3) Notwithstanding anything in this Article, either PARTY may terminate this Agreement by notifying the other PARTY to its intention to terminate the Agreement by a notice in writing, at least 3 (three) months prior to its termination date. Termination shall be without penalty.

Pihak 1	Pihak 2
	

- (4) Such notice of termination does not affect any individual students who have already commenced or been accepted by either **PARTY**.

Pasal 3

MASA BERLAKU KESEPAKATAN

- (1) *Kesepakatan ini akan mulai berlaku terhitung sejak tanggal penandatanganan terakhir dan akan tetap berlaku selama jangka waktu 5 (lima) tahun sesuai dengan pertimbangan dan perubahan sebagaimana telah disepakati bersama.*
- (2) *Setelah itu, jika **PARA PIHAK** dengan ini berkeinginan untuk memperluas ketentuan-ketentuan dari **Kesepakatan** ini, mereka akan melakukannya melalui sebuah persetujuan yang tegas secara tertulis.*
- (3) *Tanpa mengabaikan apapun dalam Pasal ini, salah satu Pihak dapat mengakhiri **Kesepakatan** ini dengan memberikan pemberitahuan kepada **PIHAK** lain terkait dengan maksudnya untuk mengakhiri **Kesepakatan** ini melalui sebuah pemberitahuan secara tertulis sekurang-kurangnya 3 (tiga) bulan sebelum tanggal pengakhiran. Pengakhiran akan dilaksanakan tanpa hukuman.*
- (4) *Pemberitahuan pengakhiran tersebut tidak memengaruhi setiap mahasiswa yang telah memulai atau diterima oleh salah satu **PIHAK**.*

Article 4

FINANCIAL ARRANGEMENTS

- (1) This Agreement will not give rise to any financial obligation by one **PARTY** to the other.
- (2) Each **PARTY** will bear its own costs and expenses in relation to this Agreement.

Pasal 4

PEMBIAYAAN

- (1) *Kesepakatan ini tidak akan menimbulkan berbagai bentuk beban keuangan dari satu **PIHAK** kepada **PIHAK** lainnya.*
- (2) ***PARA PIHAK** akan menanggung biaya dan pengeluaran masing-masing dalam hubungannya dengan **Kesepakatan** ini.*

Article 5

DISPUTE RESOLUTION

The **PARTIES** agree that all disputes arising pursuant to this Agreement shall be resolved by way of negotiations and discussion and with a view to an amicable settlement and mutual benefit of both **PARTIES**.

Pasal 5


PENYELESAIAN SENGKETA

***PARA PIHAK** menyepakati bahwa segala bentuk sengketa yang timbul berdasarkan **Kesepakatan** ini harus diselesaikan melalui cara negosiasi dan diskusi dan dengan tujuan penyelesaian damai serta saling menguntungkan kedua belah **PIHAK**.*

Article 6

FORCE MAJEURE

Both **PARTIES** shall not be responsible for any delay or failure resulted in from events or circumstances beyond the reasonable control of either **PARTY** and in particular, any failure by either to carry out its obligations as set out in this Agreement.

Pihak 1	Pihak 2
	

Pasal 6
FORCE MAJEURE

Kedua belah PIHAK tidak bertanggung jawab atas keterlambatan atau kegagalan yang dihasilkan dari kejadian-kejadian atau keadaan-keadaan di luar kontrol yang wajar dari salah satu PIHAK dan khususnya, berbagai bentuk kegagalan oleh salah satu PIHAK dalam melaksanakan kewajibannya sebagaimana diatur dalam Kesepakatan ini.

Article 7
NOTICES AND CORRESPONDENCIES

- (1) Any communication under this Agreement will be written in English and delivered by registered mail to the address or sent to the electronic mail address or facsimile number of each PARTY.
- (2) All correspondence relating to the implementation of this Agreement is addressed to:

a. PT.TCHAIN DIGITAL INNOVATION

May Panji Nurkrishna
Direktur HRD
Menara Imperium Lantai 22
Jl.Rasuna Said Kav 1 , Guntur Setiabudi
Jakarta Selatan
admin@guruahli.id
0877 0505 0606

b. Universitas Pendidikan Indonesia:

Ahmad Bukhori Muslim, Ph.D.
Director
Direktorat Urusan Internasional
Universitas Pendidikan Indonesia
Gedung University Center Lt. 1
Jl. Dr. Setiabudhi No. 229 Bandung 40154
Jawa Barat, Indonesia
Tel: +62 22 2013313
Fax: +62 22 2013313
Email: dia@upi.edu

Pihak 1	Pihak 2
	

Herein this Agreement is made in 2 (two) original copies, each having equal validity, one copy for the **FIRST PARTY** and the other copy for the **SECOND PARTY**.

*Kesepakatan ini dibuat dalam rangkap 2 (dua) asli yang masing-masing mempunyai kekuatan hukum yang sama, 1 (satu) rangkap untuk **PIHAK PERTAMA** dan 1 (satu) rangkap untuk **PIHAK KEDUA**.*

FIRST PARTY / PIHAK PERTAMA
PT. Tchain Digital Innovation


Tchain Digital Innovation

Ismail, S. Kom
General Director/ Direktur Utama

Date / Tanggal: 12 DES 2022

SECOND PARTY / PIHAK KEDUA
Universitas Pendidikan Indonesia,




Prof. Dr. M. Solchuddin, M.Pd., M.A.
Rector/ Rektor

Date / Tanggal: 12 DES 2022

Pihak 1	Pihak 2
	

APENDIX-6 MOU UPI CIBIRU AND PT. INSTALASI KECERDASAN BUATAN.



**NOTA KESEPAHAMAN
ANTARA**

**PT. INSTALASI KECERDASAN BUATAN
DAN
UNIVERSITAS PENDIDIKAN INDONESIA CIBIRU
PROGRAM STUDI S1 PENDIDIKAN GURU SEKOLAH DASAR, PENDIDIKAN GURU PENDIDIKAN
ANAK USIA DINI, PENDIDIKAN MULTIMEDIA, REKAYASA PERANGKAT LUNAK, TEKNIK
KOMPUTER DAN S2 PENDIDIKAN GURU SEKOLAH DASAR**

TENTANG

**KERJASAMA MEMBANGUN UNIT LAYANAN TERPADU (ULT) DAN SISTEM PEMBELAJARAN
BERBASISKAN ARTIFICIAL INTELLIGENCE (AI)**

Ref. Number: 09/MOU/XI/2024

Ref. Number: /UN40/HK.07.01/2022

Nota Kesepahaman (Memorandum of Understanding/ MoU) untuk selanjutnya akan disebut "Kesepakatan" telah dibuat dan ditandatangani oleh dan antara:

- I. **PT. Instalasi Kecerdasan Buatan** alamat 18 Office Park lantai 21 Jl.TB Simatupang no.18 Jakarta Selatan dalam Kesepakatan ini diwakili oleh **Ismail. S.Kom** dalam jabatannya selaku Direktur Utama, oleh karenanya sah bertindak untuk dan atas nama PT.Instalasi Kecerdasan Buatan, untuk selanjutnya disebut sebagai "**PIHAK PERTAMA**"; dan
- II. **Universitas Pendidikan Indonesia (UPI) Cibiru**, sebagai Perguruan Tinggi Negeri Badan Hukum, berkedudukan di Cibiru, Jawa Barat, Indonesia, dalam Kesepakatan ini diwakili oleh **Prof. Dr. Deni Darmawan, S.Pd., M.Si., M.Kom., MCE.** dalam jabatannya selaku Direktur Universitas Pendidikan Indonesia Cibiru, oleh karenanya sah bertindak untuk dan atas nama Universitas Pendidikan Indonesia Cibiru, untuk selanjutnya disebut sebagai **PIHAK KEDUA**.

PIHAK PERTAMA dan **PIHAK KEDUA** dalam kesepakatan ini dapat juga disebut sebagai **PIHAK** jika disebut secara sendiri-sendiri atau **PARA PIHAK** jika disebut secara bersama-sama.

PARA PIHAK dengan ini sepakat untuk menjalin kerjasama membangun Unit Layanan Terpadu (ULT) dan sistem pembelajaran berbasis *Artificial Intelligence (AI)*

Atas dasar hal tersebut, **PARA PIHAK** sepakat untuk membuat kesepakatan dalam rangka kerja sama bidang Pendidikan dan sistim administrasi dengan ketentuan-ketentuan sebagai berikut

Pasal 1
MAKSUD DAN TUJUAN

- a) **PARA PIHAK** sepakat menjalin kerjasama untuk membangun sistem administrasi (ULT) dan pembelajaran di perguruan tinggi berbasis *Artificial Intelligence (AI)*
- b) Tujuan dari pembuatan ULT berbasis AI yaitu untuk mempermudah dan mempercepat proses administrasi pelayanan untuk mahasiswa dengan akurasi tinggi, fleksibel dan efektif
- c) Tujuan dari membangun sistem pembelajaran berbasis AI yaitu Mahasiswa dapat mencari konten pembelajaran yang berkualitas sesuai kebutuhan seperti, konten pembelajaran digital, jurnal ilmiah, membantu pembuatan karya tulis, skripsi, tesis dan riset

Pasal 2
RUANG LINGKUP KERJA SAMA

- (1) **PARA PIHAK** sepakat kerjasama ini meliputi beberapa bidang dan aturan sebagai berikut :
 - a. Membangun Unit Layanan Terpadu (ULT) dan Sistem Pembelajaran di UPI berbasis AI sebagai percontohan
 - b. Kolaborasi antara Perguruan Tinggi dan dunia usaha dunia Industri (DUDI) dalam menyiapkan guru guru yang ahli di bidangnya sebagai pengajar dan kontributor pembuat konten bahan ajar digital berbasis AI
 - c. Penyaluran pekerjaan sebagai guru online untuk mahasiswa/wi semester akhir dan mahasiswa/wi yang sudah lulus (Alumni) melalui aplikasi jobguru.ai
 - d. Mengadakan pelatihan membuat konten digital dan pemanfaatan TIK dalam kegiatan belajar mengajar untuk Guru Guru seluruh Indonesia secara online
 - e. Kerjasama Operasi dalam bisnis bidang pendidikan dimana **PIHAK PERTAMA** berkontribusi bidang IT khususnya Teknologi AI dan transformasi digital, **PIHAK KEDUA** berkontribusi bidang akademik dan konten bahan ajar digital
 - f. Setelah **SUKSES** membangun project percontohan di UPI selanjutnya **PARA PIHAK** akan menawarkan solusi AI bidang Pendidikan ini ke Perguruan tinggi dan Lembaga Pendidikan lain secara komersil tentunya akan ada bagi hasil yang besarnya akan di tuangkan dalam perjanjian terpisah tapi tetap menjadi satu kesatuan dalam perjanjian ini
 - g. **PIHAK KEDUA** baik secara langsung maupun secara tidak langsung, baik melalui dirinya sendiri maupun diwakilkan, tidak akan melakukan usaha yang sama dan/atau usaha yang sejenis dan/atau usaha yang dapat menjadi pesaing dari usaha bersama yang dilakukan oleh **PARA PIHAK** yang dimaksud dalam perjanjian kerja sama ini
- (2) Program-program yang tercantum di atas harus dilakukan setelah saling berkonsultasi.
- (3) Jika perlu, rincian program khusus berdasarkan Perjanjian ini akan dituangkan dalam perjanjian kerja sama yang terpisah dan dibaca sebagai bagian dari Perjanjian ini.

Pasal 3
MASA BERLAKU KESEPAKATAN

- (1) **Kesepakatan** ini akan mulai berlaku terhitung sejak tanggal penandatanganan terakhir dan akan tetap berlaku selama jangka waktu 5 (lima) tahun sesuai dengan pertimbangan dan perubahan sebagaimana telah disepakati bersama.
- (2) Setelah itu, jika **PARA PIHAK** dengan ini berkeinginan untuk memperluas ketentuan-ketentuan dari **Kesepakatan** ini, mereka akan melakukannya melalui sebuah persetujuan yang tegas secara tertulis.

- (3) Tanpa mengabaikan apapun dalam Pasal ini, salah satu Pihak dapat mengakhiri **Kesepakatan** ini dengan memberikan pemberitahuan kepada **PIHAK** lain terkait dengan maksudnya untuk mengakhiri **Kesepakatan** ini melalui sebuah pemberitahuan secara tertulis sekurang-kurangnya 3 (tiga) bulan sebelum tanggal pengakhiran. Pengakhiran akan dilaksanakan tanpa hukuman.

Pasal 4
PEMBIAYAAN

- (1) Kesepakatan ini tidak akan menimbulkan berbagai bentuk beban keuangan dari satu **PIHAK** kepada **PIHAK** lainnya.
(2) **PARA PIHAK** akan menanggung biaya dan pengeluaran masing-masing dalam hubungannya dengan Kesepakatan ini.

Pasal 5
PENYELESAIAN SENGKETA

PARA PIHAK menyepakati bahwa segala bentuk sengketa yang timbul berdasarkan Kesepakatan ini harus diselesaikan melalui cara negosiasi dan diskusi dan dengan tujuan penyelesaian damai serta saling menguntungkan kedua belah **PIHAK**.

Pasal 6
FORCE MAJEURE

Kedua belah **PIHAK** tidak bertanggung jawab atas keterlambatan atau kegagalan yang dihasilkan dari kejadian-kejadian atau keadaan-keadaan di luar kontrol yang wajar dari salah satu **PIHAK** dan khususnya, berbagai bentuk kegagalan oleh salah satu **PIHAK** dalam melaksanakan kewajibannya sebagaimana diatur dalam Kesepakatan ini.

Pasal 7
PEMBERITAHUAN DAN KORESPONDENSI

- (1) Segala bentuk komunikasi yang diperlukan dalam pelaksanaan kesepakatan ini ditulis dan disampaikan ke alamat surat yang telah terdaftar atau dikirim ke alamat surat elektronik dari **PARA PIHAK**.
(2) Segala bentuk korespondensi dalam pelaksanaan Kesepakatan ini dialamatkan kepada:

PT.Instalasi Kecerdasan Buatan

Dr. (Cand) Yusie Fitria M.Si.
HR & Operational Manager
18 Office Park
Jl.TB.Simatupang no.18
Jakarta Selatan
solusi.ai@gmail.com
081258188088

Universitas Pendidikan Indonesia (UPI) Cibiru:

Prof. Deni Darmawan, S.Pd., M.Si., M.Kom., MCE.
Direktur
Kampus Universitas Pendidikan Indonesia di Cibiru
Jl. Raya Cibiru Km. 15 Bandung 403933
Jawa Barat, Indonesia
Tel: +62 22 7801840
Email: kampus_cibiru@upi.edu

**Pasal 8
KETENTUAN PENUTUP**

- (1) Hal-hal yang belum cukup diatur dalam Kesepakatan ini, akan diatur pada perjanjian kesepakatan terpisah yang merupakan bagian tidak terpisahkan dari Kesepakatan ini.
- (2) Kedua belah pihak memahami bahwa pelaksanaan kesepakatan kerja sama ini hanya akan dilakukan sepanjang tetap tunduk pada seluruh peraturan hukum yang berlaku, sesuai dengan prinsip - prinsip syariah, dan sesuai dengan standar etika berbisnis yang baik.

Kesepakatan ini dibuat dalam rangkap 2 (dua) asli yang masing-masing mempunyai kekuatan hukum yang sama, 1 (satu) rangkap untuk **PIHAK PERTAMA** dan 1 (satu) rangkap untuk **PIHAK KEDUA**.

Demikian kesepakatan kerja sama ini ditanda tangani dengan penuh kesadaran, sikap kedewasaan, serta komitmen tinggi dari masing masing PIHAK

PIHAK PERTAMA
PT. Instalasi Kecerdasan Buatan



Ismah, S.Kom
Direktur Utama

PIHAK KEDUA
Universitas Pendidikan Indonesia,



Prof. Dr. Deni Darmawan, M.Si., M.Kom., MCE.
Direktur

APENDIX-7 MOU UPI CIBIRU AND ANHUI NORMAL UNIVERSITY CHINA

