



The Management Innovation of Kuliah Kerja Praktek (KKP)

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Abstract

This study aims to provide innovation management for inputting practical work titles online based on Laravel. The rapid development of the positive number of Covid-19 has made the world restless, including the country of Indonesia, which has gone through more than 1 year of the pandemic period starting from March 2020 to May 2021. The surge in positive cases of Covid-19 has had a significant impact on the sustainability of the institution's teaching process. education. Covid-19 is forcing digital transformation towards the 4.0 education era. Technology is the only answer that can help during the pandemic, with technology the teaching and learning process continues, meetings, discussions and other things continue online. With digital transformation, conventional methods have been replaced, one of which is inputting the title of Practical Job Training (KKP) at Raharja University which utilizes the ability of Ms. Excel. This offline KKP title input service must be replaced, given the existence of Large-scale Social Restrictions which require students to make long-distance contact with the KKP title inputting administrator and reduce the service for filling out forms which are quite time-consuming and the occurrence of data input errors. The method used in this research is the Agile method Scrum TIRE which is a reference in working on Laravel-based technology. With the presence of this technology, it becomes a finding in replacing conventional methods and breakthroughs in the all-digital pandemic. The application of online KKP input can provide convenience and efficiency in the process.

Keywords: Title, Job Training, Management, Laravel

1. Introduction

The development of technology today has developed rapidly and has been widely implemented in the world of education, especially in the pandemic period which starts from March 2020 until this day May 2021 [1], everyone depends on the innovations produced by technology for the continuity of their daily activities starting from companies, agencies, and other institutions. This can be seen from the increase in the number of internet users, which reached 196.7 million in 2020 [2]. With the situation and the flow of increasingly rapid technological developments, the authors conducted research that aims to produce changes in management innovation in the manual inputting service for the Job Training Title title. is at Raharja University [3]. Where in this



research will apply laravel-based title input which will replace the manual inputting system [4] with the help of Ms. Excel or paper forms that will later be stacked in a room [5]. The implementation of this laravel framework provides benefits with the presence of several features that are very important in terms of security, namely, password storage, password reset, validation, and encryption [6]. The presence of laravel framework-based title input is a management innovation that is influenced by the collaboration process, the context of cooperation in educational management innovation is a process that is built within the framework of planning, implementation, and evaluation [7] with the support of human resources and adequate facilities [8]. The resources referred to in educational institutions consist of humans, infrastructure, technology [9], and costs where human resources in improving higher education management are needed by someone who has creativity [10] and enthusiasm for the organization that runs in the success of higher education. With good quality management in a tertiary institution, it can increase the efficiency, effectiveness, and productivity of education [11], too achieve good quality management it is necessary to implement the basic principles of management in educational practice, namely (1) selecting work procedures, (2) conducting education and training, (3) prepare and make job specifications, (4) determine the system that produces, and (5) determine the method or method of work [12] [13].

The realization of inputting the title Practical Job Training based on laravel, will provide 7 advantages:

1. Minimizing processing time.
2. Reducing human contact.
3. Minimizing the percentage of the possibility of Covid-19 spreading.
4. Reduce data input errors.
5. Become an efficient innovation for users.
6. Become one of the interesting innovations.
7. Fulfillment of management principles in the scope of education [14].

2. Research Method

In the study of inputting the title of practical work-based lectures, laravel will use the Agile Scrum B an method. In applying the Scrum method, the development process will be divided into several sprints [15].

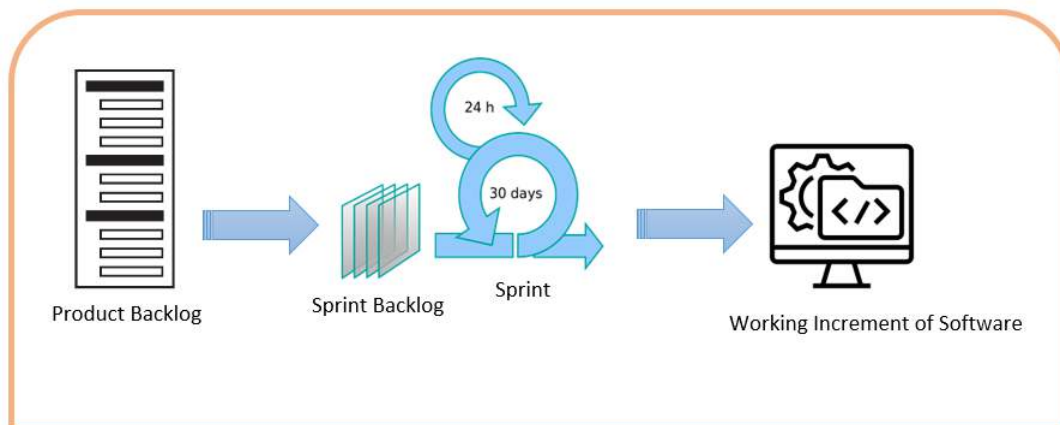


Figure 1. The process of the Scrum method

In Figure 1, the workflow of the Scrum method has been presented. Furthermore, an explanation of the Scrum workflow is described below:

1. Product Backlog

Namely the things that are needed or should be available in the desired product. In the case of inputting the title of a laravel-based practical work lecture, it will create a backlog containing starting from creating a database and the algorithm used by the backend, namely the application of the laravel framework [3].

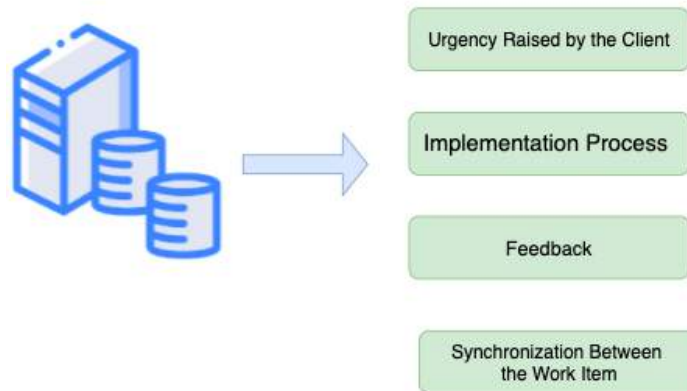


Figure 1. Product Backlog

2. Sprint Backlog

In the list that has been made in the backlog, the sprint backlog will go through the process of being executed by members of the system development team. The period given is around 2 weeks to 1 month to complete the tasks listed in the backlog list [16].

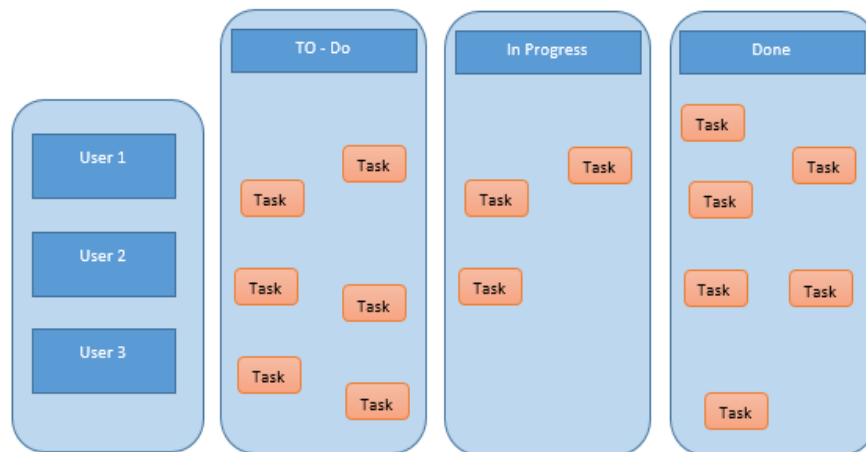


Figure 3. Workflow sprint backlog

In the sprint stage, 2 meetings will be held. The first is a daily meeting that will discuss the progress of product development. The second meeting is the sprint reflection [17], wherein this meeting we will discuss from the board the sprint backlog starting from the things to be done, tasks that are still in process, and tasks that have been completed by members of the system development team (Figure 2) [18] [5].

3. Increment

Namely the result of the product backlog that has been completed and is in a usable state [19].

Through 3 stages in the Agile Scrum Bun process, in this research, several stages will be carried out:

1. Product Backlog: Stages of problem analysis and subsequent problem solving solutions.
2. Sprint Backlog: The stages for the team, the things that need to be done are arranged in a table that will be updated every time the process is complete.

3. Increment: Through the analysis that has been carried out and the preparation of the system carried out at the sprint backlog stage, this increment stage becomes the goal of all processes that have been passed in the Agile Scrum Bun method.

2.1 Literature Review

In this study, 7 (seven) literature reviews that have been conducted by other researchers in the previous year will be raised, as well as related to research conducted on management innovation in submitting the title of practical work lectures based on laravel framework.

Research on practical work courses has been discussed beforehand by several researchers, one of which is checking students who are eligible for practical work using the YII framework wherein its application, the system will automatically update student data that is integrated with an online database. This study also explains the ease and speed obtained compared to conventional processes which are still handled manually [20].

In Otherudies have been done previously, discussing the advantages of technology in its application in the field of education. Where in research, discussing the convenience provided for students and lecturers in overcoming the filling out of the assessment form for practical work lecture activities, the application of an online system in this assessment activity will provide efficient processing time, and reduce the use of paper in filling out forms [14].

The implementation of the laravel framework has done a lot of research in dealing with various problems. One of them is the implementation of the laravel framework as a brand image in universities. In this study, laravel succeeded in increasing the four factors of brand image in higher education compared to websites that had been built previously without using the laravel framework. The four factors that have been successfully improved consist of brand loyalty, reputation, affinity, and recognition [21] [22].

The application of the website in handling submissions for practical work lectures or final assignments has been researched by Sam Ratulangi University, especially in the Informatics Engineering (IT) study program. This research, which was conducted in 2016, produced a website design for applying for practical work courses that can provide convenience for students and reduce complaints about the length of the process for submitting practical work lectures [23].

Other research on the application of the website continues in order to minimize student complaints about the too-long process and the lack of accuracy of the input data. In this research, the application of inputting practical work lectures based on websites has made a breakthrough in the educational transformation towards the digitalization era [24].

It is not only the website that has been successfully researched in improving the quality of service for students and the convenience of lecturers in handling practical work lectures or theses. Research creates applications within the scope of Satya Wiyata Mandala Nabire University and Serambi Mekkah University which aims to provide optimal services in providing information quickly, accurately, and efficiently in an application as well as providing easy access for students and lecturers by only requiring a connected smartphone. with the internet [25]. This research was conducted because the old system that has been created is considered to provide less service to lecturers and students who are doing their thesis [26].

3. Result and Discussion

3.1 Problem

Practical work-study is an important thing for students to pass to achieve the requirements graduation for undergraduate [27]. Practical work-study itself is an activity that provides opportunities for students to observe work fields and practice the knowledge that has been gained during the lecture period in the world of work. However, to carry out practical work lecture activities students need to go through several stages in obtaining approval of the title that they want to use as practical work-study research. In Raharja University [28], inputting titles submitted by students still uses a manual system where students still have to print the form that has been filled in to be submitted to the head of the department, and then data validation is carried out [29]. Of course, this manual process received complaints from students due to the time-consuming process, and there were errors in inputting names or titles due to too many paper forms that needed to be handled so that the service was not optimal [30].

The manual system applied at Raharja University is very unsuitable in the pandemic

situation that Indonesia is currently going through. With a face-to-face process and submitting forms from hand to hand, entering the title is an activity that does not comply with large-scale social distancing activities and becomes an activity that can continue the chain of potential Covid-19 infection [31]. Seeing the Covid-19 situation, who do not know when it will end, changes are needed that can make it easier for students, heads of departments, and other staff in handling the input of practical work lecture titles [32]. The change needed is a change by utilizing technology that is by today's developments, namely digitalization [33] [11].

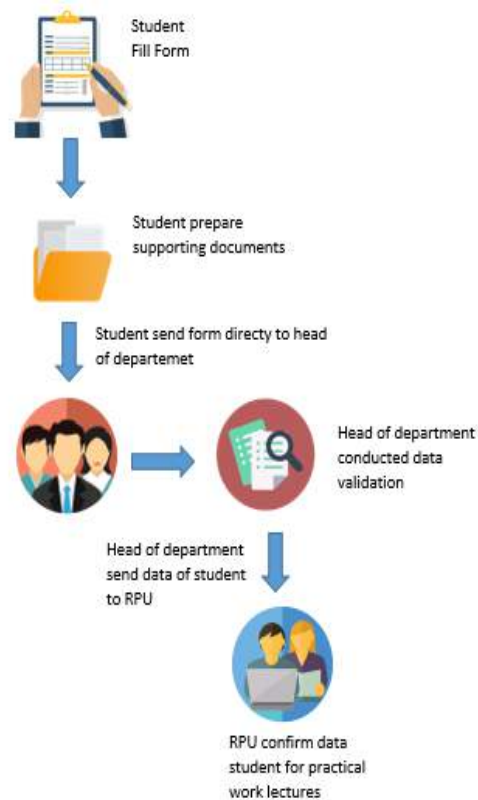


Figure 4. Flow filing lecture title work practice

In Figure 3. It has been presented in the submission process through college title for practical work activities, among others:

1. Students fill in the application form consists of the title (title he wants, and the name of the supervisor proposed).
2. Students complete several supporting documents (photocopy of the list of grades, study card, and practical work college payment slip).
3. Students print out the completed form.
4. Students submit a printed form to the head of the department, the
5. Head of the department starts the data validation process for inputting the title of the proposed practical work course.
6. After validation, the head of the department will submit it to the RPU.
7. RPU confirms the data provided.

The complexity of the stages that are passed in inputting the title of practical work at Raharja University has made the existing management considered less good. So, changes

are needed that can produce a management innovation that is better than the manual title input method [34].

3.2 Research Implementation

To overcome the problems that have been described, this study will present an innovative use of technology in the process of inputting practical work lecture titles that can make it easier for students [35], heads of departments, and other staff involved and provide processing speed and accuracy of successfully inputted data [36]. Portal UR is a solution offered in overcoming the problems that occur, wherein the construction of this portal website utilizes a laravel framework in the system. The following is programming in inputting the title of practical work online via the Rahrja University portal:

```

{!! Form::open(['url' => 'mahasiswa/pengajuan/store_baru']) !!}

<div class="form-group row">
  <label class="control-label col-sm-2 align-self-center mb-0"
for="pwd1">Judul Penelitian</label>
  <div class="col-sm-10">
    {!! Form::hidden('id_en', 'Sid_ekripsi', ['class' => 'form-control']) !!}
    {!! Form::text('judul', null, ['class' => 'form-control']) !!}
  </div>
</div>
<div class="form-group row">
  <label class="control-label col-sm-2 align-self-center mb-0"
for="pwd1">Tempat Penelitian</label>
  <div class="col-sm-10">
    {!! Form::text('tempat', null, ['class' => 'form-control']) !!}
  </div>
</div>
<div class="form-group row">
  <label class="control-label col-sm-2 align-self-center mb-0"
for="pwd1">Alamat Penelitian</label>
  <div class="col-sm-10">
    {!! Form::text('alamat', null, ['class' => 'form-control']) !!}
  </div>
</div>
<div class="form-group row">
  <label class="control-label col-sm-2 align-self-center mb-0"
for="pwd1">Alasan mengambil penelitian ini</label>
  <div class="col-sm-10">
    {!! Form::text('alasan', null, ['class' => 'form-control']) !!}
  </div>
</div>
<div class="form-group">
  <button type="submit" class="btn btn-primary">Submit</button>
  <button type="reset" class="btn btn-danger">Cancel</button>
</div>

{!! Form::close() !!}

```

Figure 5. coding entry practical work lecture title

1. Design an attractive and friendly website appearance [37] on the laravel title input portal by implementing PHP and Adobe Dreamweaver programs for the register and account login sections.



Figure 6. Display of account registration

In Figure 5, students are required to register for an account by filling in some data. Starting from the full name, email address using the email rinfo, and password required for account security.



Figure 7. Login display on the portal UR

After registering for an account, students can immediately log into the portal UR by filling in their email address and password.

2. User display, equipped with user profiles and user biodata input.

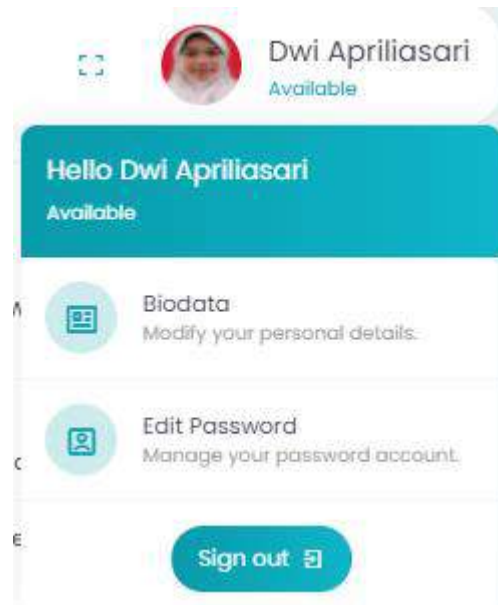


Figure 8. Display of the user

3. List for submitting practical work lectures



Figure 9. Display of the main menu

After entering the portal UR, click on the student icon which will be directed to the main menu to apply for practical work lectures.



Figure 10. List of submissions for practical work lectures

Select the appropriate submission, namely a list of submissions for practical work lectures.

4. After students fill in the list of submissions for practical work lectures, the head of the study program will input the supervisor who will be notified to students through a

notification obtained from the registered email. After that, students will input data on the title of practical work college research [38].

Figure 11. Element for submitting practical work lecture titles

5. After successfully inputting the title, then successfully accepting it and all data has been successfully validated, students can conduct guidance on completing practical work assignments with directions from predetermined supervisors [24]. In the portal UR, students can see the status of the completion stages of practical work assignments.

Status Information	
1. Validasi	DITERIMA
2. Biaya Bimbingan	DITERIMA
3. Pembimbing	DITERIMA
4. Judul KKP	DITERIMA Ubah Judul ?
5. Sertifikat	DITERIMA Lihat Sertifikat
Keterangan :-	

Figure 12. Status of the completion process of practical work college research

4. Conclusion

Service for inputting the title of the Job Training Lecture for University of Raharja students which was carried out offline was only assisted by Ms. Excel is considered inefficient because it takes a long time to handle and frequent data input errors. Through the problem of inefficiency, it is necessary to improve online-based services to make it easier for data managers to input titles and provide a sense of comfort to students and become a solution in preventing the spread of Covid-19.

With the existence of management innovation in inputting the title of practical work lectures at University of Raharja using an online system in the form of a Laravel framework-based UR portal, it can make the services provided by University of Raharja of good quality and the implementation of management principles in universities that successfully carry out planning, implementation and evaluation aspects [30] with the support of adequate resources and facilities in the design of this UR portal system [31]. The presence of the UR portal will also make

Raharja University play an active role in breaking the Covid-19 distribution chain by replacing manual methods with digital or online methods [32]. The application of the UR Portal will provide several benefits for both the students and the universities involved. There are 7 advantages, including providing optimal service [33], speed in processing incoming data, efficiency, reducing paper usage, minimizing data input errors, reducing the spread of Covid-19 in the campus area, making Raharja University a campus that follows digitalization transformation trend.

Of course, the implementation of the UR portal is not 100% good, it is necessary to improve the system, which is expected in the future through the UR portal, there is an online approval signature that can be authentic legal proof of the approval for inputting the title submitted. Will provide several benefits for both the students and the universities involved. The benefits obtained include:

1. Providing optimal service [33].
2. Speed in processing incoming data.
3. Efficient.
4. Reduce paper usage.
5. Minimize data input errors.
6. Reducing the spread of Covid-19 in the campus area.
7. Making University of Raharja a campus that follows the trend of digitalization transformation.

Of course, the implementation of this UR portal is not yet 100% good, it is necessary to improve the system which is expected in the future through the UR portal there is an online approval signature that can be authentic legal evidence on the approval for inputting the title submitted.

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References

- [1] S. E. Chang, Y.-C. Chen, and T.-C. Wu, "Exploring blockchain technology in international trade," *Ind. Manag. Data Syst.*, 2019.
- [2] D. E. I. R. Mahelingga, "Sirkulasi film platform streaming di Indonesia," 2021.
- [3] Q. Aini, M. Budiarto, P. O. H. Putra, and N. P. L. Santoso, "Gamification-based The Kampus Merdeka Learning in 4.0 era," *IJCCS (Indonesian J. Comput. Cybern. Syst.*, vol. 15, no. 1, pp. 31–42.
- [4] M. Suhartanto, "pembuatan website sekolah menengah pertama negeri 3 delanggu dengan menggunakan php dan mysql," *Speed-Sentra Penelit. Eng. dan Edukasi*, vol. 4, no. 1, 2017.
- [5] A. Dudhat, N. P. L. Santoso, S. Santoso, and R. Setiawati, "Blockchain in Indonesia University: A Design Viewboard of Digital Technology Education," *Aptisi Trans. Technopreneursh.*, vol. 3, no. 1, pp. 68–80, 2021.
- [6] R. Y. He, "Design and implementation of web based on Laravel framework," in *2014 International Conference on Computer Science and Electronic Technology (ICCSET 2014)*, 2015, pp. 301–304.
- [7] U. Rahardja, P. A. Sunarya, Q. Aini, and S. R. Dewi, "Solusi Payment Online Berbasis Cloud Accounting Pada Manajemen Perguruan Tinggi," *InfoTekJar J. Nas. Inform. dan Teknol. Jar.*, vol. 3, no. 2, pp. 9–15, 2019.
- [8] G. Maulani, U. Rahardja, M. Hardini, R. D. Izzaty, Q. Aini, and N. P. L. Santoso, "Educating Farmers Using Participatory Rural Appraisal Construct," in *2020 Fifth International Conference on Informatics and Computing (ICIC)*, 2020, pp. 1–8.
- [9] M. Ilyasin, "Inovasi Manajemen Pendidikan di Madrasah Tsanawiyen Negeri Model Samarinda," *FENOMENA*, vol. 11, no. 2, pp. 91–106, 2019.
- [10] Y. Luqman, "Peran Dan Posisi Hubungan Masyarakat Sebagai Fungsi Manajemen Perguruan Tinggi Negeri Di Semarang," *Interak. J. Ilmu Komun.*, vol. 2, no. 1, pp. 1–10, 2013.
- [11] Q. Aini, M. Yusup, N. P. L. Santoso, A. R. Ramdani, and U. Rahardja, "Digitalization Online Exam Cards in the Era of Disruption 5.0 using the DevOps Method," *J. Educ. Sci. Technol.*,

- vol. 7, no. 1, pp. 67–75, 2021.
- [12] B. Syukron, "IMPLEMENTASI MANAJEMEN MUTU TERPADU (STUDI TRANSFORMASI PADA PERGURUAN TINGGI)," *J. Pendidik. Ekon. Dan Bisnis*, vol. 5, no. 1, pp. 51–62, 2017.
- [13] P. A. Sunarya, N. Lutfiani, N. P. L. Santoso, and R. Ajeng, "The Importance of Technology to the View of the Qur'an for Studying Natural Sciences," *Aptisi Trans. Technopreneursh.*, vol. 3, no. 1, pp. 58–67, 2021.
- [14] D. Andayani, N. P. L. Santoso, A. Khoirunisa, and K. Pangaribuan, "Implementation of the YII Framework-Based Job Training Assessment System," *Aptisi Trans. Manag.*, vol. 5, no. 1, pp. 1–10, 2021.
- [15] N. Lutfiani, E. P. Harahap, Q. Aini, A. D. A. R. Ahmad, and U. Rahardja, "Inovasi Manajemen Proyek I-Learning Menggunakan Metode Agile Scrumban," *InfoTekJar J. Nas. Inform. Dan Teknol. Jar.*, vol. 5, no. 1, pp. 96–101, 2020.
- [16] C.-Y. Pang, "Product Backlog and Requirements Engineering for Enterprise Application Development," in *Software Engineering for Agile Application Development*, IGI Global, 2020, pp. 1–29.
- [17] K. Schwaber and J. Sutherland, "Panduan Scrum," *Diakses tanggal*, vol. 2, 2020.
- [18] H. F. Cervone, "Understanding agile project management methods using Scrum," *OCLC Syst. Serv. Int. Digit. Libr. Perspect.*, 2011.
- [19] S. Bajpai, N. Joglekar, and S. Eppinger, "Enhancing Visibility in Agile Program Increment DSMs," in *DS 103: Proceedings of the 22nd International DSM Conference (DSM 2020), MIT, Cambridge, Massachusetts, October 13th-15th 2020*, 2020, pp. 1–10.
- [20] U. Rahardja, Q. Aini, and V. K. A. Zebua, "Penerapan Sistem Pengecekan Mahasiswa Layak KKP Berbasis YII Framework Pada Perguruan Tinggi," *J. Teknoinfo*, vol. 13, no. 2, pp. 96–99, 2019.
- [21] E. S. Soegoto, "Implementing Laravel framework website as brand image in higher-education institution," in *IOP Conference Series: Materials Science and Engineering*, 2018, vol. 407, no. 1, p. 12066.
- [22] F. Agustin, S. Syafnidawati, N. P. L. Santoso, and O. G. Amrikhasanah, "Blockchain-based Decentralized Distribution Management in E-Journals," *Aptisi Trans. Manag.*, vol. 4, no. 2, pp. 107–113, 2020.
- [23] Y. J. B. Toreh, S. R. Sentinuwo, and A. M. Sambul, "Rancang Bangun Aplikasi Website Administrasi Kerja Praktek Dan Tugas Akhir Mahasiswa Program Studi Teknik Informatika Universitas Sam Ratulangi," *J. Tek. Inform.*, vol. 9, no. 1, 2016.
- [24] S. Santoso, E. D. Handoyo, and C. Chastro, "Digitalisasi Proses Pendaftaran, Bimbingan, dan Sidang Kerja Praktek," *Ultim. InfoSys J. Ilmu Sist. Inf.*, vol. 11, no. 2, pp. 90–96, 2020.
- [25] M. Munawir and K. Karmila, "Pengembangan Aplikasi Pengusulan pembimbing Tugas Akhir Secara Online Pada Fakultas Teknik Universitas Serambi Mekkah," *J. Nas. Komputasi dan Teknol. Inf.*, vol. 1, no. 1, 2018.
- [26] D. S. Bogar, "DESAIN APLIKASI PENENTUAN DOSEN PEMBIMBING SKRIPSI S1 TEKNIK INDUSTRI UNTUK MENINGKATKAN KUALITAS LAYANAN PROGRAM STUDI," *J. FATEKSA J. Teknol. dan Rekayasa*, vol. 3, no. 1, pp. 1–12, 2018.
- [27] Q. Aini, N. Lutfiani, N. P. L. Santoso, S. Sulistiawati, and E. Astriyani, "Blockchain For Education Purpose: Essential Topology," *Aptisi Trans. Manag.*, vol. 5, no. 2, pp. 112–120, 2021.
- [28] C. Eka, N. P. L. Santoso, and S. Amelia, "Pelatihan Software Editing Bagi Mahasiswa Pada Universitas Raharja," *ADI Pengabd. Kpd. Masy.*, vol. 1, no. 2, pp. 60–65, 2021.
- [29] A. Munandar, E. Maryani, D. Rohmat, and M. Ruhimat, "Praktek Kuliah Lapangan/Kuliah Kerja Lapangan di Perguruan Tinggi (Survey Pendapat di UNJ dan UPI)," *Param. J. Pendidik. Univ. Negeri Jakarta*, vol. 32, no. 1, pp. 13–29, 2020.
- [30] R. Elfahmi, "Upaya Peningkatan Kompetensi Guru Dalam Menerapkan Pembelajaran Daring Masa Pandemi Covid 19 di SMA Negeri 3 Seunagan," *Bionatural J. Ilm. Pendidik. Biol.*, vol. 7, no. 2, 2020.
- [31] M. Kamil, A. S. Bist, U. Rahardja, N. P. L. Santoso, and M. Iqbal, "Covid-19: Implementation e-voting Blockchain Concept," *Int. J. Artif. Intell. Res.*, vol. 5, no. 1, 2021.
- [32] I. Marzuki *et al.*, *COVID-19: Seribu Satu Wajah*. Yayasan Kita Menulis, 2021.
- [33] S. Sudaryono, Q. Aini, N. Lutfiani, F. Hanafi, and U. Rahardja, "Application of Blockchain

- Technology for iLearning Student Assessment,” *IJCCS (Indonesian J. Comput. Cybern. Syst.*, vol. 14, no. 2, pp. 209–218.
- [34] A. S. Bein, Y. I. Graha, and A. P. Pangestu, “Pandawan Website Design Based Content Management System As Media E-commerce Transaction,” *Aptisi Trans. Technopreneursh.*, vol. 2, no. 1, pp. 87–97, 2020.
- [35] Q. Aini, U. Rahardja, N. P. L. Santoso, and A. Oktariyani, “Aplikasi Berbasis Blockchain dalam Dunia Pendidikan dengan Metode Systematics Review,” *CESS (Journal Comput. Eng. Syst. Sci.*, vol. 6, no. 1, pp. 58–66.
- [36] A. Rifandi, “Analysis And Design Of Point Of Sale System In D’astore Shop,” *Aptisi Trans. Technopreneursh.*, vol. 2, no. 1, pp. 34–47, 2020.
- [37] T. Hariguna, Q. Aini, and R. R. Fitriani, “Penerapan Website E-commerce Sebagai Media Transaksi Pada Perguruan Tinggi,” *TMJ (Technomedia Journal) Vol. 4 No. 2 Februari 2020*, p. 223, 2021.
- [38] I. Amsyar, E. Cristhopher, U. Rahardja, N. Lutfiani, and A. Rizky, “Application of Building Workers Services in Facing Industrial Revolution 4.0,” *Aptisi Trans. Technopreneursh.*, vol. 3, no. 1, pp. 32–41, 2021.
- [39] K. B. Rii, L. K. Choi, Y. Shino, H. Kenta, and I. R. Adianita, “Application of iLearning Education in Learning Methods for Entrepreneurship and Elementary School Student Innovation,” *Aptisi Trans. Technopreneursh.*, vol. 2, no. 2, pp. 131–142, 2020.
- [40] Z. Fauziah, H. Latifah, U. Rahardja, N. Lutfiani, and A. Mardiansyah, “Designing Student Attendance Information Systems Web-Based,” *Aptisi Trans. Technopreneursh.*, vol. 3, no. 1, pp. 23–31, 2021.
- [41] U. Rahardja, S. Sudaryono, N. P. L. Santoso, A. Faturahman, and Q. Aini, “Covid-19: Digital Signature Impact on Higher Education Motivation Performance,” *Int. J. Artif. Intell. Res.*, vol. 4, no. 1, pp. 65–74, 2020.
- [42] Q. Aini, A. Anoesyirwan, and Y. Ana, “Effect of Cloud Accounting as income statement on Accountant Performance,” *Aptisi Trans. Manag.*, vol. 4, no. 1, pp. 13–21, 2020.