Training for Compiling Scientific Work References Using the Mendeley Application for PIAUD Undergraduate Students FAI Nurul Jadid University 2022

Zaenol Fajri (✉), Sajuri[2], Iis Daniati Fatimah[3]

[1] Universitas Nurul Jadid, Probolinggo, Indonesia
[2] SMK Mambaul Falah, Bondowoso, Indonesia
[3] Universitas PGRI Ronggolawe, Tuban, Indonesia
alfajri002@gmail.com

Abstract— *You must be able to create solid and accurate scientific papers as a student. One need is to know how to organize references using tools like the Mendeley desktop application. The automatic operation of apps to make citations and compose bibliographies on scientific papers is one of the technological demands on students' abilities that must be able to adapt to the times. This course aims to give participants knowledge and comprehension of the Mendeley desktop application's reference composition process. Collaboration and participation between the implementation team and participants comprise the method adopted. The training's outcomes demonstrated the participants' passion, added understanding, sharpened abilities, enhanced the process of choosing and organizing references, and made it simpler to automatically generate citations and bibliographies without having to type them by hand.*

Keywords— *reference, mendeley desktop app*

1 Introduction

Students need to be able to put together scientific papers. One of the challenges that frequently arise while writing scientific papers is putting together and writing accurate citations and bibliographies. Nowadays, writing citations and bibliographies is uncommon; every publisher publishes scientific journal articles using automatic tools like the Mendeley and Zotero programs. Students must be able to compose scientific works to complete their studies, such as writing a thesis, dissertation, or other final projects like scientific journal articles. As a result, the demand for students, teachers, lecturers, or academics to write and publish scientific works is one of the essential routines for everyone who composes scientific works. All scientific results assembled by academics, particularly students, must be posted through publishing organizations on a local, national, and even international level to keep up with the times and technology's stage of progress [1].

You must be able to produce scientific work published in a journal as a student, and you are even required to do so. Students must be able to solve all the problems that arise in the field, especially in scientific studies, such as the completion of final student assignments, the results of studies, and student scientific works, all of which must be accountable for the truth. One way to demonstrate this development of knowledge is for students to be able to think critically and compose scientific papers[2]. So that pupils can have additional knowledge to examine their job. Students' ability to search for, choose, sort, and decide, as well as save references following the requirements of their scientific work, cannot be isolated from the writing of the final project. This reference is necessary and crucial to make it easier for students to prepare scientific papers that they are discussing. It addresses the relevance of connections used as a base or source in writing scientific papers. Experience with reference management is needed to ensure that the authorities used are appropriate for the discussion or research topic[3][4][5].

The management of references that will be used to support scientific writing is crucial because students must adopt and adapt to ever-evolving technological advancements, one of which is the creation of applications frequently used in academia by researchers, teachers, students, and lecturers. In information processing tasks, such as online and offline journal databases containing various scientific journal articles. Due to this circumstance, academics, teachers, lecturers, and even students who are still unable to use information technology effectively are required to change as soon as possible. This will prevent them from running into problems when using technology, one of which is the need to locate pertinent references to write scientific papers[6].

Based on the findings of observations made of students, particularly those enrolled in Early Childhood Islamic Education (PIAUD) at the Faculty of Islamic Religion, Nurul Jadid University, it was determined that the problem data was obtained by students, specifically related to how students compose high-quality scientific works. This is because many students still struggle with knowing where to look, how to choose, and how to organize references for citations or bibliographies. The software utilization in online and offline computer application systems is also foreign to pupils. Students still use manual and offline techniques to cite sources in their papers and create bibliographies today. In the modern era, this manual method is viewed as less successful; therefore, while writing references, attention must be taken, and a solid understanding of good writing techniques is required. This manual approach is very trying to register and takes a long time, hindering students' ability to compile scientific articles. In actuality, many students are clueless about locating, picking out, and organizing relevant scientific papers and producing references based on the issues they want to explore in their research. The desktop version of the Mendeley web tool, often and extensively used by academics, researchers, lecturers, and students, serves as a remedy for this [7].

Mendeley Desktop is a type of program or application that is very simple to use. Its operation is quick and straightforward and may be utilized at any time. One advantage of using Mendeley is that it makes it simple to share articles with others, acknowledge references in scientific works, and assist the needs of researchers, particularly students who are completing final assignments. Citing pertinent articles with extensive study results is made simpler for users by the Mendeley desktop[8]. Mendeley's desktop can also make it simpler to accurately, quickly, and precisely refer from one source to another. Mendeley can assist with citing relevant authorities to prevent plagiarism. Researchers may find it simpler to decide how to accurately, precisely, and consistently write references using this Mendeley desktop application[5][9]. Who have authority over their discoveries might be recognized by managing references when quoting scientific articles. Citations allow readers to evaluate a piece of writing based on what they have learned through earlier research.

The Mendeley desktop application is one of the best, most accurate, and consistent pieces of software. According to some research or community service outcomes, it is simple to use when maintaining references while creating scientific papers[10]. One technique to improve the reliability of reference writing in articles or scientific works is to use the Mendeley application[11][20]. There are 535 million documents and 2.8 million users on Mendeley Desktop[10]. Mendeley desktop as a platform or tool for disseminating articles from scientific journals[13][14]. The Mendeley desktop tool helps increase student literacy across the board and makes it easier for them to cite and identify reliable sources of information[10][15]. With the Mendeley desktop application, students can enhance and complete diverse reference sources[12][16][17]. So that students can manage numerous references both locally and globally using the Mendeley desktop application and so that students can use the references they already have to increase their learning achievement[18][19]. The procurement plan for the Training of Preparing Scientific Work References Using the Mendeley Application for PIAUD FAI University Students at Nurul Jadid is intended to stimulate interest and enthusiasm for PIAUD undergraduate students to learn and practice using the Mendeley desktop application in processing reference data, both national and international references, and so that students have knowledge and ability in managing, selecting, and sorting all references. Because of this, we are interested in offering PIAUD students training under the heading "Training for Compiling Scientific Work References Using the Mendeley Application for PIAUD Undergraduate Students, FAI, Nurul Jadid University 2022."

2   Method

The 32 Early Childhood Islamic Education student participants, who were final and lower semester students, as well as professors and some leaders from the Faculty of Islamic Religion at Nurul Jadid University, participated in this community service activity in class Building A at UNUJA. It took about four hours to complete this community service. The method used in this community service is a collaboration between presenters, leaders, and students. The techniques used include lectures, discussions, and direct practical guidance so that all participants in the training can quickly understand the subject matter and use the Mendeley desktop to organize scientific works. Students' compilations Before beginning the community service projects, the presenter gave the participants a link to a YouTube channel with instructions on how to download and set up the Mendeley desktop application on laptops, PCs, and notebooks. This helped to make the process of carrying out community service more straight forward and quick. Because doing so will make it possible to undertake community service effectively and efficiently to accomplish shared objectives. The following YouTube links have been provided to training participants: a. Before the training, each participant is required to have a document that serves a practice ground for citing sources and creating a bibliography (at least the text of the record is in the form of a paper, but for final semester students bring a proposal or research report that will be given a citation and bibliography)

a.   Focus on Video 1 for instructions on installing the Mendeley application on your laptop or computer: https://www.youtube.com/watch?v=6XWPz0OF3iU
b.   Viewing Video 2, Connecting and Registering the Mendeley App with Ms. Word's Explanation: https://www.youtube.com/watch?v=xsGJk2h7XV0
c.   Playing the Mendeley Application, Viewing Video 3, (insert citation of reference sources into ms. word & creates bibliography)
d.   Please see the following YouTube video for an explanation: https://www.youtube.com/watch?v=3pYHtbEoq44

Provision:
1.   Include no more than 1 (one) reference in each sentence, free from any other authorities, and from any significant publication relevant to the topic of the article, proposal, or research report published no earlier than 2015.
2.   b. Incorporate several references (more than one) into a single sentence.
3.   Creating a bibliography (at least ten references)

The instruction manual for the Mendeley desktop application and several scientific articles and journals from research pertaining to the use of the Mendeley desktop application were used to create the training materials. Presentation elements, such as PowerPoint presentations and YouTube videos, organize the study materials for this Community Service subject (how to practice the Mendeley application). The production of Mendeley application photos, text sentences, and videos (via YouTube) is combined with power points to enhance the training's execution and make it more inventive and engaging for the participants. Several examples of reference management outcomes obtained with the Mendeley program are included in the training materials. The two sessions that make up the execution of this training are the first one, an introduction to the fabric of the Mendeley application, and the second, practice using the Mendeley program.

Discussions and questions and answers between participants and presenters were held during the first part of the presentation of the information about the Mendeley application to gauge the participants' level of understanding or to reduce misconceptions about the Mendeley desktop application. We must indeed be able to accompany and provide the participants with intensive comprehension because the use of the Mendeley application for all training participants has never been known. The participants immediately practiced using the Mendeley desktop application before the second step or session. The procedure is as follows: 1). Download and install the Mendeley application. 2). Register and connect with MS Word. 30. Practice adding citations to participant-prepared document manuscripts. 4). Create a bibliography using the Mendeley application. In this second lesson, we work with the team to help students practice gathering references to ensure that everyone can utilize the Mendeley desktop tool effectively.

After the exercise, each participant was required to sum up the training's execution, ask questions, and use the Mendeley desktop application to display one of their outcomes that had been included as a reference. Furthermore, the Community Service implementing team required all
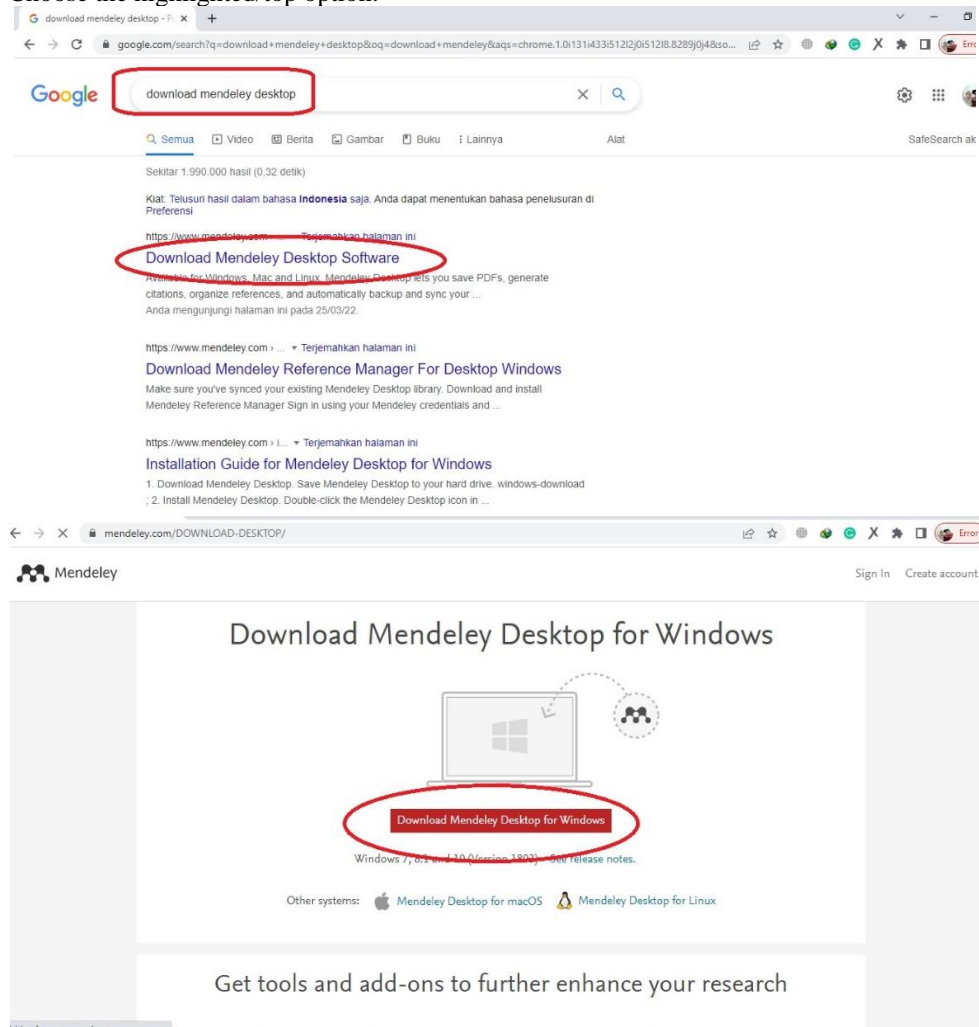
participants to spend roughly 10 minutes completing a questionnaire to determine the implementation outcomes of this program. The responses to this questionnaire serve as research and evaluation material for the S1 PIAUD Nurul Jadid University training program.

3   Findings And Discussion

3.1 Finding

The introduction of the implementing team is followed by a description of how to grasp the Mendeley desktop application and a description of the Mendeley program's look and features before the implementation of the material delivery gets underway. Installing the Mendeley application on your computer, laptop, or smartphone is the first step in using it, as demonstrated below:
   a.   In the search bar, type "download the Mendeley desktop application."
          Choose the highlighted/top option.

Fig. 1. Shows the Mendeley application download process

   b.   After the Mendeley application has been downloaded, find the downloaded Mendeley desktop application. Next, install the application on the laptop by double-clicking on the application display or pressing ENTER on the PC/Laptop keyboard. You can also right-

click the application and choose Run as Administrator from the menu, then click Next until the Mendeley application installation is complete.
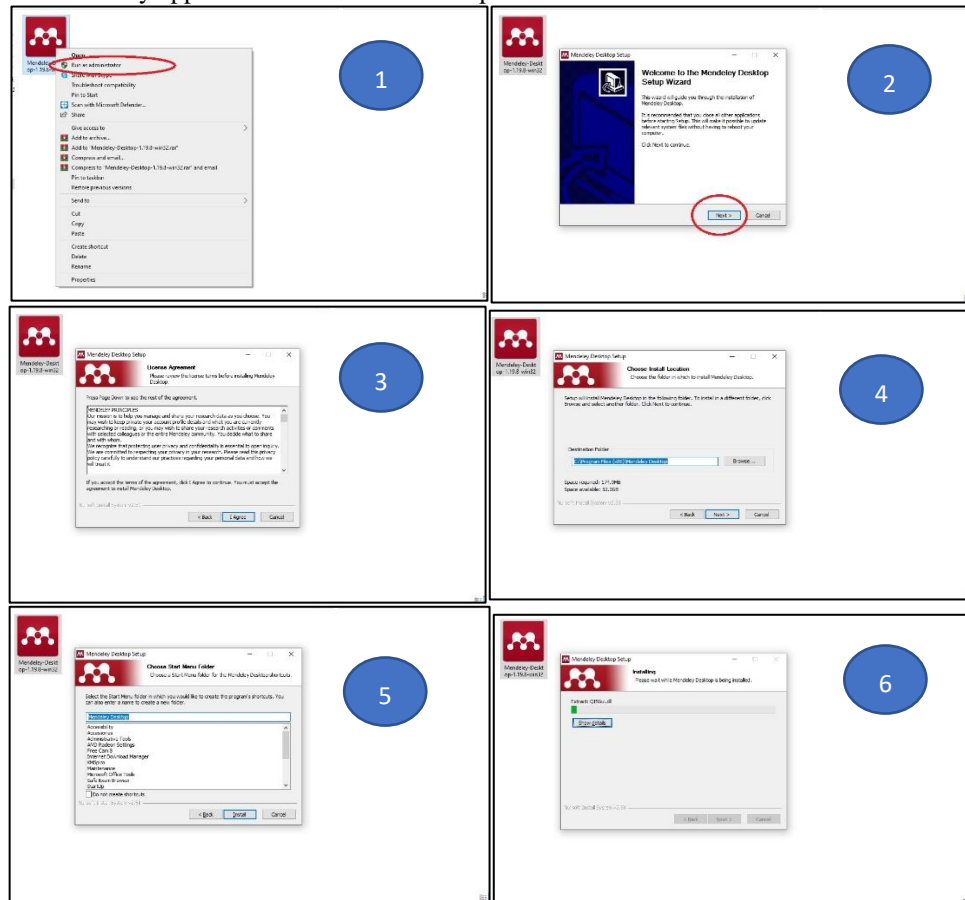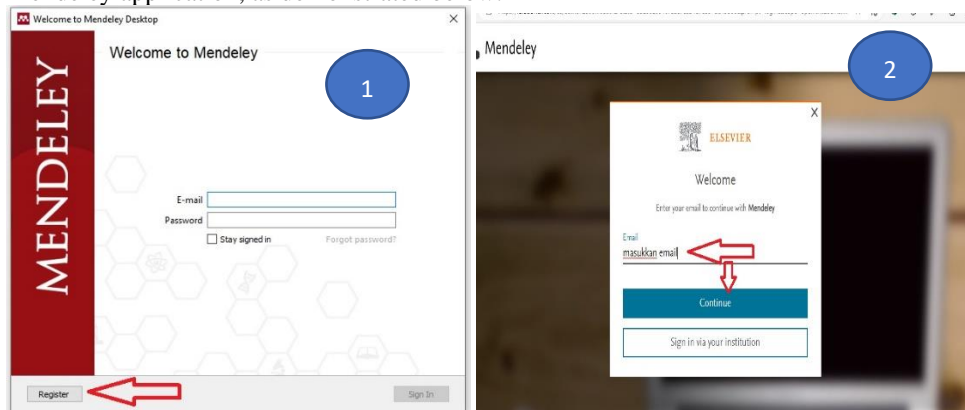

Fig. 2. Shows how to set up the desktop version of Mendeley

c. The next step after installing the Mendeley desktop application is registering to log in to the Mendeley application, as demonstrated below.
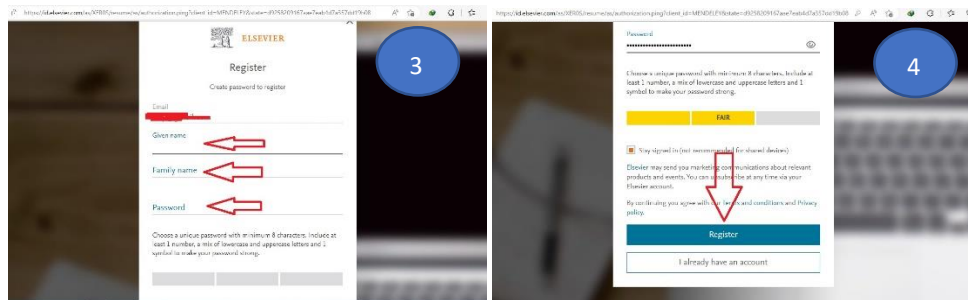
Fig. 3. Illustrates the Mendeley desktop application registration process

d. The final step is to click on the area highlighted in red after logging into the Mendeley application with the user name, email address, and password you created in step c.
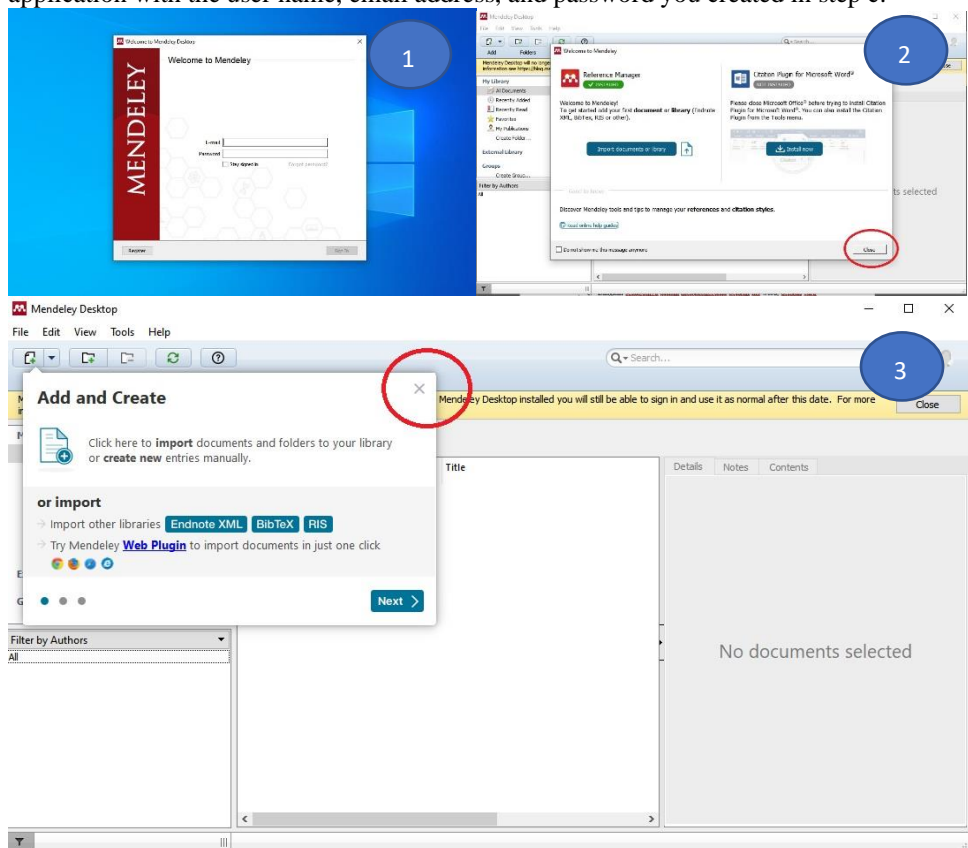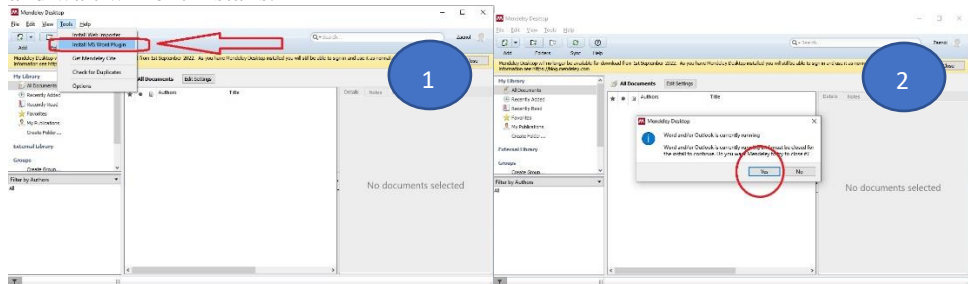

Fig. 4. Shows the Mendeley desktop program

e. The next step is to connect to MS Word. To do this, select Tool > Install MS Word Plugin and wait while it installs.
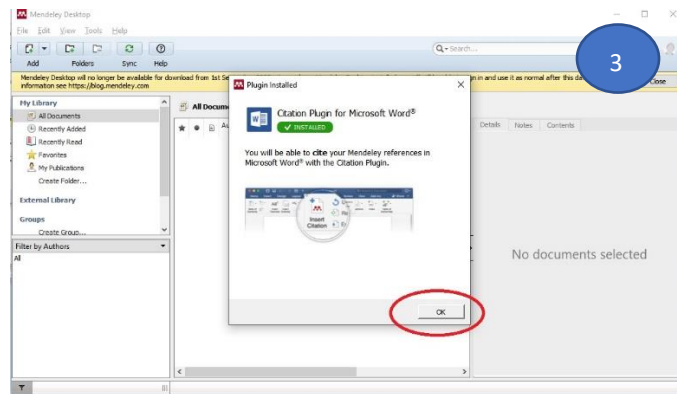
Fig. 5. Shows the Mendeley desktop application's interface after connecting to ms. Words

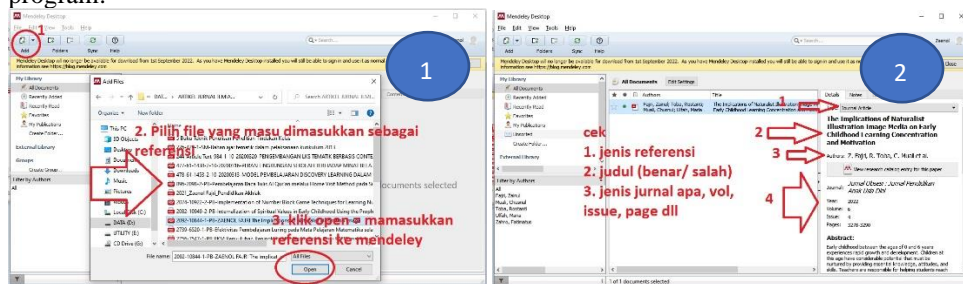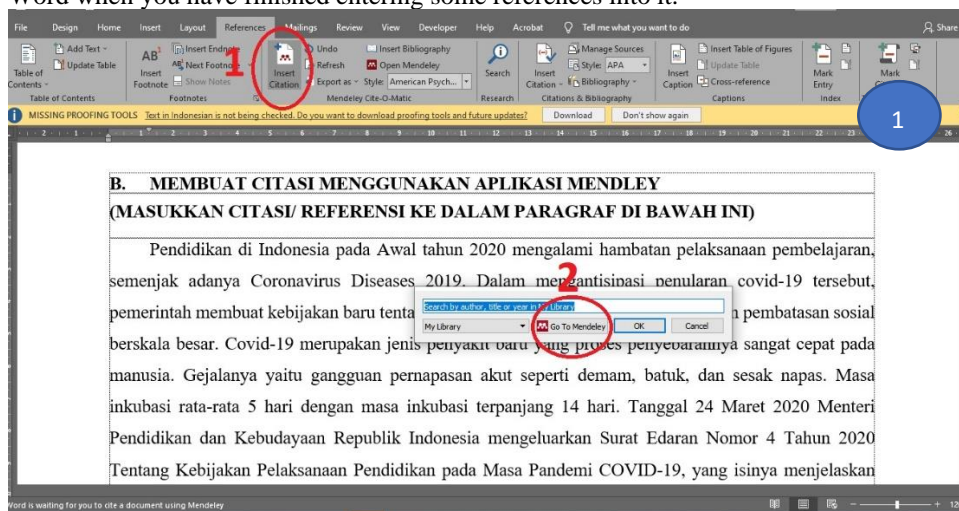f. In the following step, we insert the following sources and references into the Mendeley program:

Fig. 6. Shows the Mendeley desktop application's display when references are entered for several references that will be used

g. The next step is to use the Mendeley desktop application to insert the references into Ms. Word when you have finished entering some references into it.
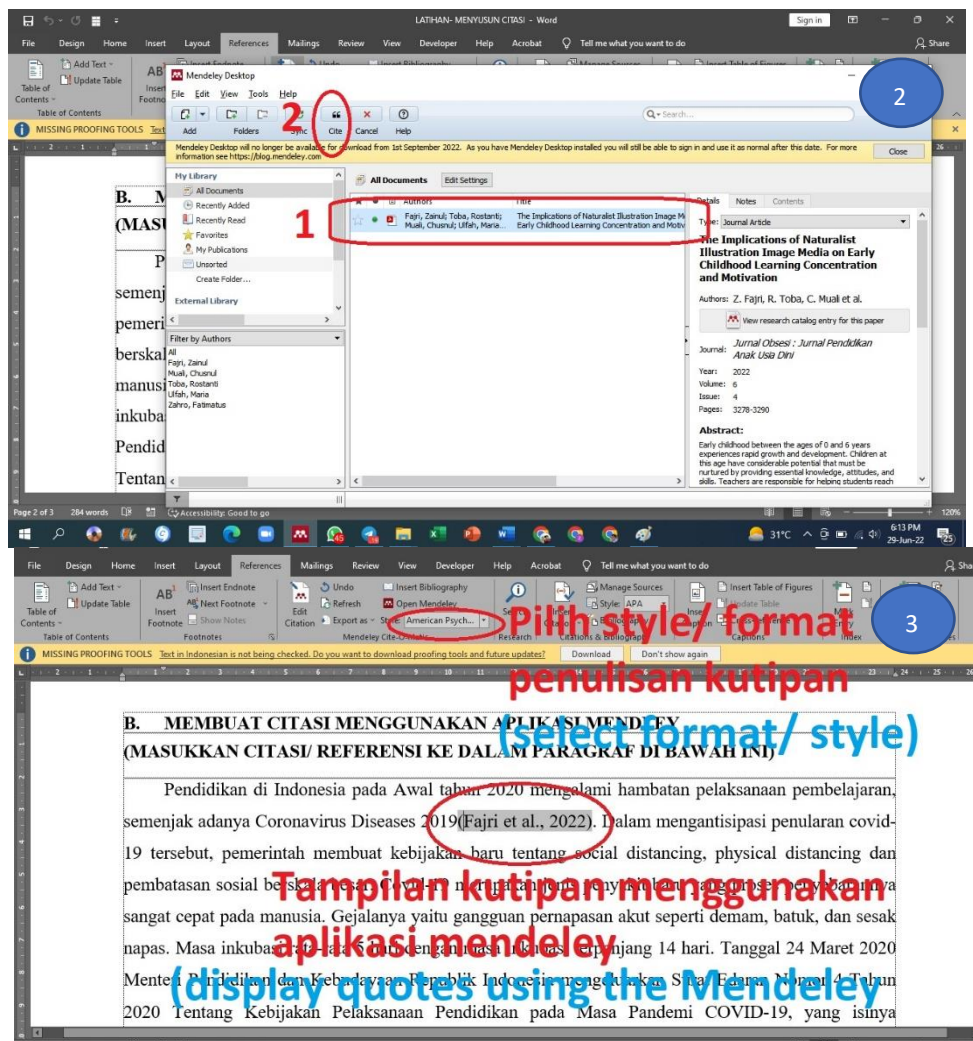
Fig. 7. shows the Mendeley desktop application's quote entry screen

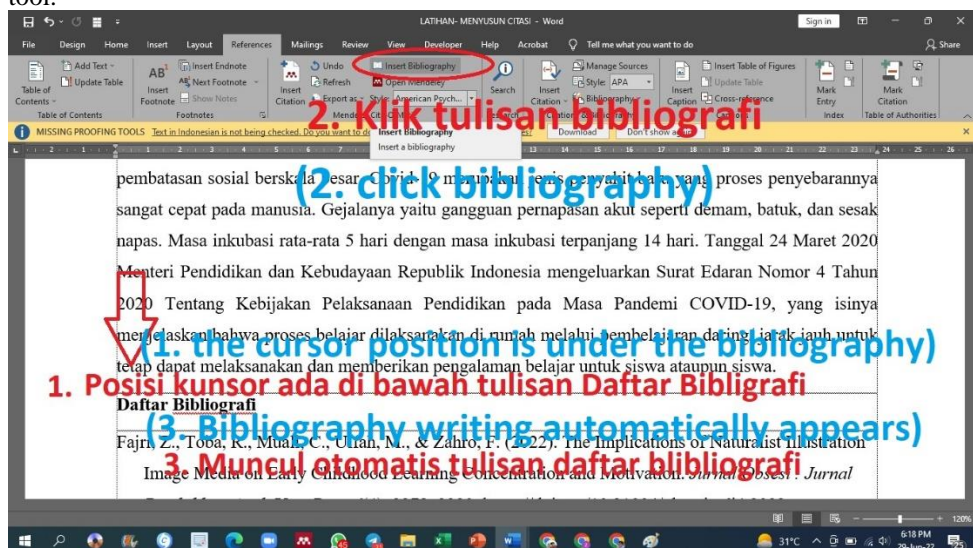h.   Inputting a bibliography is the final step after entering specific citations using the Mendeley tool.

Fig. 8. Shows the Mendeley desktop application's interface for creating bibliographies

These are the general steps for using the Mendeley desktop application. However, if the participants want to group various reference sources according to the topic, they can do so in this stage by storing the references in multiple folders or subfolders.

All training participants were requested to turn on their laptops and follow the instructions for using the Mendeley program as the beginning of the practical implementation of the Mendeley desktop application began. Each participant must have set up the application and established an internet connection. The Mendeley desktop application's main screen display includes the functions File, Edit, View, Tools, and Help, along with many command icons, including Add, Folders, Related Sync, and Help. Participants must be aware that some of the features can supply the necessary data and information and document it.

The main display contains a search function that shows results from all the necessary files. Therefore, the presenter explained and made the advantages apparent to make it simpler for the attendees to understand the purpose of the primary screen. First, the presenter goes over how to add a file or folder, view folders, import and export files, as well as how to add and remove data from already-existing documents, and sync documents.

To cancel, modify, restore, search, remove, duplicate, and create new folders, use the Mendeley application's editing tool. Use the view feature to display references, identify the type, and document data. There are distinct purposes for the Tools and Help parts.

Each explanation is supplemented with examples from images and YouTube videos to make the implementation more effective and efficient. Additionally, it describes how to choose where to save files in a folder within the Mendeley application. One method is to select the "options" feature and then "arrange my file." Participants can separate or categorize files using this "organize my file" feature to make it simpler for participants when files or references are requested. It can be changed to reflect the title, publication year, or author's name in document storage.

The processing comes next when Ms. Word has been connected or integrated with the Mendeley desktop program. However, each participant must first have a reference file or download it using Google Scholar or Google Scholar. Then, on Google, choose the period for the most recent publication. For instance, select five years, the most extended magazine until the current year. Like the illustration below:
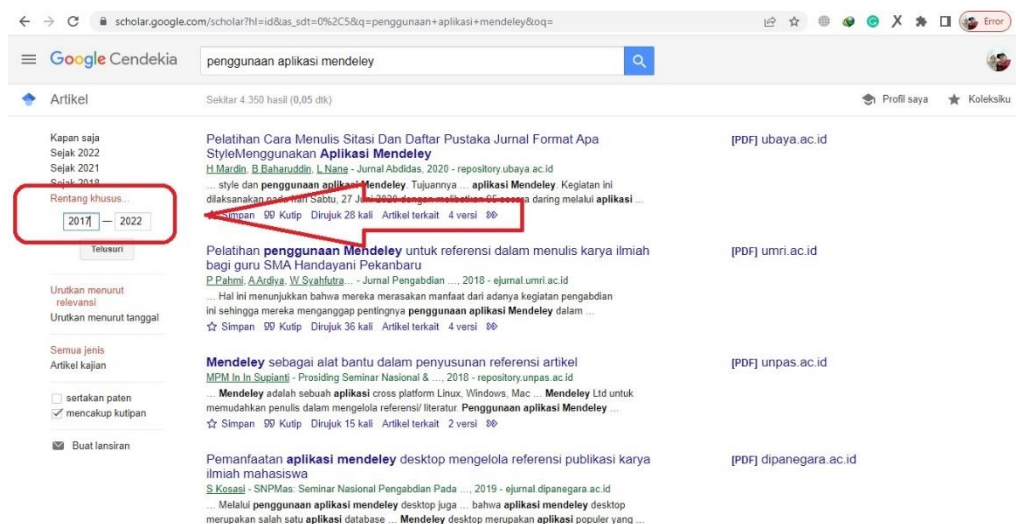

Fig. 9. Shows how the reference range can be determined using references from scientific journal articles

The participants have started comprehending each step of using the Mendeley application, starting with how to download and install the application, register with it, link it to Microsoft Word, and use it. The participants' next stage is individually practicing choosing and organizing the sources used as quotes or a bibliography.

3.2 Discussion

According to the initial design, the Head of the PIAUD Study Program, the Dean of FAI, and the Head of LPPPM, Nurul Jadid University, have all consented to implement this course. For this action to be completed as planned. According to the presenter study program, the implementation of this training is exclusively for PIAUD S1 students. An introduction to the subject is presented first, followed by a hands-on exercise utilizing the Mendeley desktop tool. The following picture illustrates the activities involved in putting this training into practice:

Fig. 10. Shows the Mendeley desktop application's reference preparation training

Everyone who participated in this program was quite excited. The students were engaged in talking or asking questions regarding the material presented to help them when they went into actual practice. The essential amenities and features of the Mendeley program were the subjects of the questions posed by the participants. The Mendeley desktop application appeared to be something the students took extremely seriously. The students who took part in the training carefully followed instructions on how to use Mendeley, including how to download several references from various sources, particularly references from the most recent scientific journal articles that had just been published.

Since students traditionally compile references using manual methods, such as how to create citations and bibliographies, employing software in the form of the Mendeley program is a novelty for participants.

A participant was interviewed as part of the evaluation process for the training activity after receiving the information about the Mendeley application and using it in practice to determine how much the participants understood about training using the Mendeley application. The findings of interviews, questions, responses and first-hand observations made during the activity are also employed to evaluate its implementation.

a. Students in the early semester are equally enthusiastic and passionate about participating in it, which shows that implementing this training can provide meaning and conclusions about raising participants' curiosity.
b. The trainees' knowledge and experience of the Mendeley application, how to use or operate Mendeley, and how to discover various reference sources that may be found immediately online are also growing and increasing.
c. Enthusiasm, curiosity, and the level of participant interest during the training served as supportive variables for implementing this training activity.
d. The participants know that with this training, the preparation or management of reference sources used in producing scientific articles can be sped up and made more straightforward.
e. The ability of the participants to comprehend the information quickly and effectively was demonstrated by their ability to respond to the lecturer's questions and practice using the Mendeley application effectively.
f. Participants might pose challenging queries in light of the information covered in this session.
g. On the whole, participants reported feeling satisfied with the activity and being able to use the information gained to write or put together scientific publications.
h. The effectiveness of the training materials can be seen from the outcomes of participants' practice using Mendeley when producing scientific publications.

After wrapping up the presentation of the content, thanking all involved, and reciting a prayer led by colleagues, the training exercise was concluded. A certificate is presented as recognition and proof of participation to all participants in this training program.

4   Conclusion

Given the needs of the times and the state of technology today, teaching reference management via the Mendeley desktop application is a very efficient and successful method. Students from the S1 PIAUD study program in all first and last semesters make up the training group. While students at the beginning of the semester provide new information and insight to prepare references for each work of creating papers for scientific presentations, the final semester is to prepare students to write and complete a final project, such as a thesis. The participants' enthusiasm was evident in their active engagement in the Mendeley desktop application-based reference management training procedure. Writers can manage references more efficiently and quickly by using the Mendeley program, which also speeds up the creation of bibliographies without having to type them out manually. We, as regular individuals, undoubtedly have flaws or errors in this training; thus, we, the training team, want comments, criticisms, and user instructions to improve the training.

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6   Acknowledgment

7   Authors

Zaenol Fajri, the chairman and presenter of PKM events and a permanent lecturer in the Faculty of Islamic Religion's Early Childhood Islamic Education (PIAUD) study program, has several scientific papers that have been published in national journals (email: alfajri002@ gmail.com).

Sajuri, He is the head of SMK Mambaul Falah in Bondowoso and a designer of training materials, data retrieval documentation of the results of training implementation, and a team for compiling reports on the performance of activities (email: as.sajuri@gmail.com).

Iis Daniati Fatimah, The participant's partner in the practice of gathering references using the Mendeley desktop application and the group for creating service reports. His email address is iisdaniati@gmail.com, and he is a permanent instructor at PGRI Ronggolawe University in Tuban.