Development of digital modules to optimize Basic Japanese online learning

Via Luviana Dewanty¹, Ghaida Farisya²
¹Universitas Pendidikan Indonesia, Bandung, Indonesia
²Universitas Garut, Garut, Indonesia
luvianadewanty@upi.edu¹, ghaida@uniga.ac.id²

ABSTRACT

Many Japanese language learning modules have been prepared or developed independently by each department or study program. To get a new Japanese learning experience, students need learning media that present interesting and up-to-date content, which can be accessed online anytime, anywhere. Interactive online modules are one of the media that can make this happen. Students can download and access the online module as an ebook via their PCs, laptops, or devices. The online module materials have links directly connected to explanation videos related to basic Japanese. In each chapter of the material, there are also interactive quizzes that can test students' insights. The method used in this research is Reeves' DBR (Design-Based Research) model, which consists of four phases. Phase 1 is in the form of identifying material, media, and module needs through interviews. Phase 2 is creating and preparing online modules following the syllabus for the basic Japanese course material. Furthermore, in phase 3, the module was tested twice on students who chose the basic Japanese courses. In phase 4, the trial data will be analyzed, and then it will be explained whether the online module that has been developed can be used in learning Basic Japanese. The results of the questionnaire in the trial showed that all aspects of the assessment received good responses and were included in the "high" category so that the module could be used in online elementary-level Japanese learning. Even so, it still needs several revisions and refinements related to evaluation questions and the content of the module's material before it can be implemented in learning in the following years.

How to cite (APA 7)
This article has been peer-reviewed through the journal's standard double-blind peer review, where both the reviewers and authors are anonymised during review.

Development of digital modules to optimize Basic Japanese online learning

Inovasi Kurikulum

Development of digital modules to optimize Basic Japanese online learning

ABSTRACT

Development of digital modules to optimize Basic Japanese online learning

ABSTRACT

Many Japanese language learning modules have been prepared or developed independently by each department or study program. To get a new Japanese learning experience, students need learning media that present interesting and up-to-date content, which can be accessed online anytime, anywhere. Interactive online modules are one of the media that can make this happen. Students can download and access the online module as an ebook via their PCs, laptops, or devices. The online module materials have links directly connected to explanation videos related to basic Japanese. In each chapter of the material, there are also interactive quizzes that can test students' insights. The method used in this research is Reeves' DBR (Design-Based Research) model, which consists of four phases. Phase 1 is in the form of identifying material, media, and module needs through interviews. Phase 2 is creating and preparing online modules following the syllabus for the basic Japanese course material. Furthermore, in phase 3, the module was tested twice on students who chose the basic Japanese courses. In phase 4, the trial data will be analyzed, and then it will be explained whether the online module that has been developed can be used in learning Basic Japanese. The results of the questionnaire in the trial showed that all aspects of the assessment received good responses and were included in the "high" category so that the module could be used in online elementary-level Japanese learning. Even so, it still needs several revisions and refinements related to evaluation questions and the content of the module's material before it can be implemented in learning in the following years.

How to cite (APA 7)
This article has been peer-reviewed through the journal's standard double-blind peer review, where both the reviewers and authors are anonymised during review.
INTRODUCTION

In the era of revolution 4.0, Information and Communication Technology (ICT) has been embedded in our daily lives. With existing technological advances, it makes it easier for us to do various things, especially in studying science. The use of technology has an impact on all aspects of society, such as economic activities, technology changes how a person does business, how a person learns, how to use their free time, and so on (Røpke, 2009). Along with the development of technology, learning media is increasingly innovative and varied, not only glued to books (Daheri et al., 2020; Dewi, 2017; Rahayu, 2019).

Technological developments in learning also impact foreign language learning (Al-Ansi et al., 2021; Bahmani et al., 2019; Basri & Paramma, 2019; Hidayah et al., 2022), especially Japanese in college. The pre-research questionnaire revealed that the issue of not optimal online lectures was ranked first. Most still use the same platform (WhatsApp and Email) to teach, not maximizing other platforms that should be able to facilitate lecturers and students in the learning process. Based on the results of the urgency analysis that has been carried out at the Department of Japanese Language Education FPBS UPI, the issues in online lectures are quite urgent to discuss because they are hot issues and will continue for some time to come. Although online lecture hours have been going on for quite a long time, the implementation is considered not optimal. If left unchecked, it will affect the smooth process of online learning (Alkaromah et al., 2020; Budiman, 2020; Wicaksana, 2020). Based on questionnaires related to online learning distributed to students of the Department of Japanese Language Education FPBS UPI in Japanese language lectures, the issue related to online lectures is that online lectures in Japanese are not optimal related to available media that can be used. Most of the lecture process still uses the same platform (WhatsApp, email, Zoom) and media in the form of slide for teaching, not maximizing other platforms and media that should facilitate lecturers and students in the learning process.

Japanese learning modules compiled or developed independently by each department or study program (Noverisa et al., 2022) are mostly only PDF versions of PPT made by lecturers or printed modules with material that is not current and full of text without illustrations or photos. It is feared that it will not be able to attract learners to understand and deepen the material (Kusrini et al., 2021; Haristiani et al., 2022), because in learning a foreign language, the learning experience will be more enjoyable, and the material is easy to understand when accompanied by illustrations, images, photos, and videos (Rahayu, 2019; Guillén-Gámez et al., 2019; Kusrini et al., 2020). Although the content and material presented are of high quality and in accordance with Japanese cultural materials, the type of media in existing Japanese learning modules is considered unsuitable if applied to online or hybrid learning. Learners need material that is poured into interesting media, which can be accessed anytime, anywhere (Bucur et al., 2017; Tømte et al., 2015).

To overcome this, textbooks in the form of interactive digital modules can be the solution (Belanisa et al., 2022; Noverisa et al., 2022). Modules are teaching materials packaged as a whole and systematic, containing a set of planned learning experiences, and can be selected for more efficient, relevant, and effective learning (Guillén-Gámez et al., 2019). Modules combined with digital technology give birth to digital modules in the form of teaching materials that are packaged in a modern, concise, easily accessible, and offer exciting features to increase learner interest (Djafri, 2017; Kartika, 2017; Rahayu, 2019; Guillén-Gámez et al., 2019). It is hoped that the digital module can make Japanese cultural materials more exciting and fun so that learners can understand the material more deeply.

There is quite a lot of research on digital modules as learning media (Mahadiraja & Syamsuarnis, 2020; Hadiyanti, 2021), but in basic Japanese language learning, there has been no research related to the development of digital modules. Basic Japanese language learning research is limited to digital or online media. Therefore, this research will develop digital modules to learn Japanese, especially basic Japanese. What the development of interactive digital module drafts for basic Japanese learning looks like, as well

https://doi.org/10.17509/jik.v20i2.54108
as what the quality of interactive digital module drafts developed in basic Japanese learning looks like, will be discussed in detail in this study. It is hoped that with the digital module, online lectures for basic Japanese can be more optimal than before.

This research will develop a basic Japanese digital module in the form of a PDF/e-book containing 10 units of learning material. Shokyu Japanese Language Lectures (Elementary Level) Each unit contains materials that can be used for all Shokyu courses (elementary level) and is integrated with learning videos on the Japanese Language Education Department YouTube channel. The exercises in the module are also integrated with quiz applications such as Google Form, Kahoot, and Quizziz, which have been input questions from lecturers. Thus, students can enjoy a new multimodality learning experience for 5 Japanese language proficiency courses through one learning module only.

LITERATURE REVIEW

ICT in Language Learning

According to Constantinides in the book chapter “Creating Creative Teachers" with a chapter titled “Creativity in the English Language Classroom" language learning requires creativity from teachers to be able to carry out learning activities effectively because creativity in the development of teaching materials and media can increase motivation in learning (Kohnke, 2018; Kusrini et al., 2022), especially the use of visual-based creative media can support the delivery of material in language learning. Zagkotas and Fykaris (2017) explained in their research that visualizations such as images can facilitate the process of delivering material and make the learning process more interesting. Using images, photos, and videos as teaching media can be developed into more interesting teaching materials. Images, photos, and videos as ICT (Information and Communication Technology) products in language learning prove the use of ICT in learning.

Lim et al. (2020) state that technological advances have changed how people communicate and disseminate information. These developments and changes always impact all aspects of life, including communicating and disseminating information to give birth to ICT (Information and Communication Technology). The rapid development of ICT also impacts the development of ICT technology in education and learning (Mahini et al., 2012). In addition to the use of ICT products in the form of photos, audio, or video, ICT products in the form of digital quizzes, online assessments, and games can also be used in language learning (Hafifah, 2020; Sangeetha, 2016; Mulatsih, 2020). These ICT products can be arranged and integrated with each other in the form of integrated teaching materials and media in the form of online digital modules.

Modules and e-Modules

Modules are systematic teaching materials, containing a set of planned and selected learning experiences to deliver material to be more efficient, relevant, and effective (Mahadiraja & Syamsuamis, 2020). Modules with various materials, exercises, and media are said to be well integrated if 1) Contain general learning objectives; 2) Learning topics and activities in the module according to the learning material; 3) Contain specific learning objectives; 4) Encourage teachers to play an active role in learning; 5) Contains worksheets, exercises, and assessments (Setyawan & Nawangsari, 2021). E-modules can control the content students learn because the teachers themselves design them, so they can adjust to the curriculum compiled previously (Tsai et al., 2018). E-modules in language learning can increase learner motivation and improve learners’ critical thinking processes so that they are suitable for use as learning media in language learning (Belanisa et al., 2022; Noverisa et al., 2022).
e-Modules in Japanese Language Learning

Nowadays, Japanese language learning included in foreign language learning has also been rife using ICT in teaching and learning (Febrianty & Ricardo, 2019; Firmansyah et al., 2018; Ge et al., 2022). ICT involvement in Japanese language learning is generally done through various digital platforms such as Google Classroom and other LMS (Huang et al., 2021). In addition to using the platform in the form of LMS, the creation of teaching and assessment materials also involves ICT such as materials in the form of e-books, PowerPoints, audio-visual media in the form of YouTube videos, audio that can be accessed from popular applications such as podcasts, Spotify, iTunes, and assessments through the Google Form and Digital Quiz platforms (Ayub, 2018; Brata et al., 2019; Ge et al., 2022). The materials and assessments in ICT-based Japanese language learning can be integrated into an e-module so that, similar to the use of e-modules in language learning in general, teachers and learners can control learning content, motivate learners, and improve Japanese language skills (Tsai et al., 2018; Belanisa et al., 2022; Noverisa et al., 2022).

METHODS

This research lasted for approximately 1 month, with the subject of the study being a basic Japanese language learner of the University. Stenhouse, in “An Introduction to Curriculum Research and Development” and Postholm (2014) emphasize that the ability to research and develop is a way to show an increased understanding of the material and how to teach learning. This study used Reeves' DBR (Design-Based Research) model. Wang and Hannafin in Bergroth & Seppala (2012) define DBR as a systematic but flexible methodology that aims to improve educational practices through iterative analysis, design, development, and implementation. The DBR consists of four phases, as illustrated by Reeves in the book chapter “Design Research from a Technology Perspective” with the article title “Educational Design Research” the chart below (see Figure 1).

In more detail, based on Reeves, the stages of DBR applied in this study are as follows (Štemberger & Cencič, 2016).

In phase 1, problem identification is carried out by means of ultrasound and SWOT analysis to find out solutions to online learning problems related to variations in materials and media used in Japanese cultural learning, difficulties faced in learning, and what kind of teaching materials or teaching media are needed.
in learning. In phase 2, the step of selecting the digital module design and adjusting the theme of each chapter digital module with basic Japanese material is carried out by collecting references from books, videos, and illustrations. Creating and preparing digital modules is also carried out at this stage. The designs and illustrations on the modules are drawn digitally using Clip Studio Paint and Adobe Photoshop CS6 software. The illustrations are then combined together with the text of the material and then arranged according to the theme of the teaching material. Links to learning reference videos are collected and then inputted into the module according to the theme of the material. Simple games related to the material are also made to determine the learner's understanding. The game link is also inputted in each chapter. After that, validation from material and media experts is carried out to determine whether the digital module has shortcomings or requires improvement before testing.

On a limited scale, the digital module was then piloted in phase 3 to 20 basic Japanese learners using samples of two material themes. At this stage, learners will also be given a questionnaire to determine their responses to the digital modules used. This research did not conduct stage 4 DBR because of limited time and place to reflect in the form of PDG with lecturers who teach Basic Japanese courses. It is expected that phase 4 can be carried out as a follow-up to be carried out in the following research.

RESULT AND DISCUSSION

Phase 1 Identify the Problem

Based on the level of urgency, the issues in online lectures are quite urgent to discuss because they are important issues and will still last for some time to come. Although online lectures have been going on for 4 semesters, the implementation is considered not optimal. If this is left unchecked, it will affect the smooth online and hybrid learning process later. In Japanese language lectures, issues related to online lectures that are not optimal can be re-identified into several sub-problems, such as the following.

1. Online lectures on Shokyu Japanese (elementary level) that are not optimal.
2. Online lectures on Chukyu Japanese (intermediate level) that are not optimal.
3. Online lectures in Chujokyu Japanese (upper intermediate level) that are not optimal.

The three sub-problems above were analyzed using USG (Analisis Urgency, Seriousness, Growth) criteria based on the order of problem priority, with a score of 1-5. The results of the analysis are presented in Table 1 below.

<table>
<thead>
<tr>
<th>No</th>
<th>Problems</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Online lectures on Shokyu Japanese (elementary level) that are not optimal</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>Online lectures on Chukyu Japanese (intermediate level) that are not optimal</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>Online lectures in Chujokyu Japanese (upper intermediate level) that are not optimal</td>
<td>4</td>
</tr>
</tbody>
</table>

Source: Research 2020

From the results of the analysis shown at Table 1, the adjustment of material in the digital module for lectures at the Shokyu Japanese level (elementary level) received the highest score. The Japanese course consists of 5 courses, namely Shokyu Bunpo (Basic Japanese grammar), Shokyu Hyoki (basic Japanese kanji), Shokyu Chokai (basic Japanese listening), Shokyu Kaiwa (basic Japanese conversation), and
Shokyu Dokkai (Basic Japanese reading). These five courses are considered to require more special attention for online lecture activities. Students at the elementary level are still not familiar with Japanese, so they need to be given teaching materials and media with detailed, interesting, and easy-to-understand explanations (Kusrini et al., 2021; Haristiani et al., 2022).

Based on the results of USG analysis, the issue set by the author for actualization activities is that online learning activities are not optimal, especially for Shokyu Japanese lectures (elementary level). Furthermore, the determination of the roots of the problem has been carried out using fishbone method analysis (fishbone diagram). The results of the analysis are presented in Figure 2.

![Fishbone Diagram](https://doi.org/10.17509/jik.v20i2.54108)

From the results of the analysis based on the 4 root problems in the fishbone diagram above, several solutions can be applied to optimize the implementation of online lectures.

1. **Digital version module creation**
   Teaching materials and media can be poured into a digital module (Dewi, 2017; Mustofa et al., 2019) which will later be accessible digitally to all new students at the basic Japanese level. Digital modules can be PDFs or interactive e-books.

2. **Workshop on making teaching materials/media**
   Training on making exciting and contemporary teaching materials/media in animated videos/podcasts/slides using specific software and applications.

3. **Learning management system application workshop**
   The university has official Learning Management System (LMS) facilities such as SPOT UPI and SPADA UPI which can be used by all lecturers who teach courses. However, only a few lecturers in the Japanese Language Education department use the LMS facility because its operation is not user-friendly. Therefore, it is necessary to socialize or train on the procedures for using UPI LMS facilities in each program study.
Of the three solutions the author offers, the best solution to overcome issues in beginner-level Japanese online lectures can be known by analyzing these solutions using methods with SMART criteria (Specific, Measurable, Achievable, Realistic, Timely). Details can be seen in Table 2 below.

<table>
<thead>
<tr>
<th>No</th>
<th>Problems</th>
<th>Solutions</th>
<th>S</th>
<th>M</th>
<th>A</th>
<th>R</th>
<th>T</th>
<th>Conclusions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>There are no modules available in each course for online learning</td>
<td>Making digital versions of modules by the teaching team</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>This solution meets all SMART criteria. The author and the teaching team teach 4 Shokyu Japanese courses and already have materials, media and evaluations for several meetings so that they can be compiled and poured in the form of digital modules.</td>
</tr>
<tr>
<td>2</td>
<td>Course lecturers do not make learning materials/media that are in accordance with online learning activities</td>
<td>Workshop on making teaching materials/media in the form of videos/podcasts / animated PPTs using certain software and applications.</td>
<td>✔</td>
<td>✔</td>
<td>✘</td>
<td>✔</td>
<td>✘</td>
<td>Training for the beginning of odd-numbered semesters has been carried out, but there is no real output yet. If you want to do training again, it can only be done at the beginning of the even semester.</td>
</tr>
<tr>
<td>3</td>
<td>Lecturers do not innovate and explore online learning support applications</td>
<td>Workshop on the use of learning management system applications</td>
<td>✔</td>
<td>✔</td>
<td>✘</td>
<td>✔</td>
<td>✘</td>
<td>The training has been carried out last year, but UPI's LMS facility apparently does not support Japanese fonts so it cannot be used optimally for Japanese online lectures.</td>
</tr>
</tbody>
</table>

Source: Research result 2020

After defining solutions and drawing conclusions from several existing issues using SMART criteria, it can be seen that issues related to digital modules in lectures meet all criteria. Compared to the other 2 solutions, the digital module creation solution can be solved by making digital modules. This research will develop a basic Japanese digital module in the form of a PDF/e-book containing 10 units of learning materials. Shokyu Japanese Language Lectures (Elementary Level) Each unit contains materials that can be used for all Shokyu courses (elementary level) and is integrated with learning videos on the Japanese Language Education Department YouTube channel. The exercises in the module are also integrated with quiz applications such as Google Form, Kahoot, and Quizizz, which have been input questions from lecturers. Thus, students can enjoy a new multimodality learning experience for 5 Japanese language proficiency courses through 1 learning module. It is hoped that with the digital module, online and hybrid lectures for basic Japanese can be more optimal than before.

Phase 2 Adjustment of Digital Module Material and Digital Module Design

Digital Module Material

At this stage, discussions were held with the teaching team for the Shokyu Japanese course (elementary level) to determine the program units that would be used as the boundaries/scope of the online module, study online lesson plans that had been prepared, identify and analyze competency standards for the material to be studied, and arrange units or units of learning material that can accommodate the material to be studied. Furthermore, the 10 study unit material texts were prepared by referring to the basic grammar material for the Shokyu Bunpo course (basic grammar) and selecting Japanese reading material texts from various sources for the Shokyu Dokkai course (basic grammar). For the preparation of Shokyu...
Dokkai material (basic grammar). For the preparation of Shokyu Chokai material (Beginner level listening), the steps for making materials and media are as follows.

1. Select audio tracks from various sources for the Shokyu Chokai course (Beginner level listening)
2. Make a Google Form for the listening question form
3. Upload the audio track to Google Drive.
4. Setting up the Google question sheet link to be inserted into the module.
5. Setting up the audio link to be inserted into the module.

The steps for making materials and media can be seen in Figure 3 and Figure 4 below.

In addition to materials in the form of text or audio, teaching media is also prepared in the form of videos for Shokyu Bunpo (Basic Grammar), Shokyu Hyoki (Basic Kanji), and Shokyu Kaiwa (Basic Conversation) courses. The steps taken are as follows.
1. Make narrative text for teaching videos
2. Filming and editing teaching videos
3. Make teaching videos in the form of simple animations
4. Upload videos to Google Drive
5. Prepare the video link to be inserted into the module.

**Figure 5** below shows the steps for making a learning video.

The last step is the stage of creating and compiling evaluation questions for 5 Shokyu courses. The stage begins with compiling evaluation questions for 5 Shokyu courses, then inputting the questions that have been compiled into the Google Form, Kahoot, and Quizziz. The questions are converted into short links to be inserted into the module.

**Digital Module Design**

After determining the material, media, and types of evaluation that will be included in the module, the design theme for the entire module is determined. The module content layout process uses Canva.com, Microsoft PowerPoint, and Adobe Photoshop. After 1 theme is determined, enter the materials according to the theme and learning chapter, then insert audio links, videos, and online quizzes into each lesson unit. The process of designing and compiling the contents of the module can be seen in **Figure 6**.
Digital modules designed and filled with materials, learning media, and evaluation are then converted into PDF and e-book forms using the Kotobee software. The process of converting into an e-book can be seen in Figure 7 below.

Before the module was trialed, coordination and validation were carried out with the teaching team for the Shokyu course. Coordination and validation are carried out to check whether the learning objectives, material descriptions, forms of activities, assignments, exercises, or other activities contained in the module are effective.

**Phase 3 Implementation**

The initial implementation was carried out after coordinating with the teaching team for the Shokyu course and compiling a questionnaire on Google Form based on the instruments described in the methods section. Trials of two study units on digital modules were carried out in 3 Shokyu classes. Responses were collected by giving questionnaires in a Google Form to students in 3 Shokyu classes regarding the digital module being tested. From the temporary implementation process, trial results were obtained with an average rating of very good on the aspects in the questionnaire. The trial results can be seen in Table 3 below.
### Table 3
The results of the digital module sample trial questionnaire

<table>
<thead>
<tr>
<th>No</th>
<th>Questions</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The title of the module corresponds to the content.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>The font size on the module is easy to read.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>The vocabulary that appears varies.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Explanation of the material in the module is easy to understand.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Attractive digital module design.</td>
<td></td>
</tr>
</tbody>
</table>

**Writing Language**

**Appearance**
<table>
<thead>
<tr>
<th>No</th>
<th>Questions</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>The color combination on the module is appropriate.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>The suitability of the illustrations and material is good.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>The size of titles, subtitles, and text is balanced.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>The appearance of the video explanation of the material is interesting and in accordance with the material.</td>
<td></td>
</tr>
</tbody>
</table>

**Material**

| 10 | The sentence patterns in the module are in accordance with the material. |        |

| 11 | The vocabulary in the module is in accordance with the theme of the material. |        |
The questionnaire results show that in the digital module that was developed, almost all respondents strongly agreed that in the Writing Language aspect, the vocabulary in the e-module varies widely. The explanation of each material in the module is easy to understand, supported by attractive illustrations. However, in this aspect, many respondents disagreed that the letters used in the module were easy to read. This indicates that the Japanese characters in the module are rather difficult to read due to the inappropriate size of the letters. In the Appearance aspect, most respondents strongly agreed that digital modules have an attractive design, as well as exciting illustrations and learning videos. The material aspects of the module were considered very good by the respondents, as evidenced by the fact that almost all respondents strongly agreed that the sentence patterns, exercises, quizzes, and explanatory videos contained in the module followed the learning material.

CONCLUSION

Basic Japanese digital modules are developed through 3 of the 4 stages of DBR (Design-Based Research). In stage 1, problem identification was carried out by analyzing problems and solutions from
online learning related to the variety of materials and media used in learning Japanese culture using USG and SWOT. After that, the selection of digital module designs, adjustment of digital module themes for each chapter with basic Japanese material, and creation of materials in the form of discourses, quizzes, games, slides, and videos are carried out in stage 2. Stage 2 also contains activities for compiling module content according to the learning theme unit. A trial of the digital module on a limited scale for 20 UPI DPBJ students was carried out in stage 3. The results of the questionnaire on the trial showed that all aspects of the assessment received good responses and were included in the "high" category so that the module could be used in basic Japanese online learning. But even so, it still needs several revisions and refinements related to evaluation questions and the content of the module's material before it can be implemented in learning in the following years.

AUTHOR'S NOTE
The author declares that there is no conflict of interest regarding the publication of this article. The author confirms that the data and content of the article are free from plagiarism.

REFERENCES
Basri, M., & Paramma, M. A. (2019). EFL students' perspective on the usefulness of ICT based learning in Indonesian higher education. ELT Worldwide, 6(2), 105-120.


https://doi.org/10.17509/ij-k.v202.54108


