

Development of a Google Maps-Based Website for Information on Football Goalkeeper Coach Services in the Province of the Special Region of Yogyakarta



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ABSTRACT: Football is one of the sports that is most in demand by the Indonesian people, especially teenagers. Where there are many football championships both in regional and national matches. So that well-known clubs that are having difficulty finding a superior team are competing and trying to find a good team to get optimal results. This research aims to develop a website media as a tool to find information on the location of goalkeeper coach services in the Special Region of Yogyakarta based on a website to provide convenience in obtaining information on goalkeeper coaches, because there is no tool for the community to find goalkeeper coaches, especially in the Special Region of Yogyakarta. The research method used is research and development by referring to the borg and gall research steps which are adapted into 7 steps. The small-scale trial subjects were carried out on 10 goalkeeper coaches who already have a license in the Special Region of Yogyakarta. And large-scale trials were carried out on 10 parents and 10 players in two places, namely Ony Goal kepper Privat and 22 Goal kepper Academy. The instrument used in collecting development data is in the form of a questionnaire (Google Form). The data analysis technique used is a descriptive statistical analysis technique. The results of the study show that the website-based media for the development of information on goalkeeper coach services in the Special Region of Yogyakarta is suitable to be used as a reference for the general public to find information on goalkeeper coach services. This is shown from the results of assessments that have been carried out by material experts, media experts and field trials. The final results obtained from the study showed that the website based on gmaps information on goalkeeper coach services in the Special Region of Yogyakarta was declared "Feasible" based on the percentage obtained, namely from material experts 89%, media experts 75%, small group trial results 87.5% and large group trial results 92%.

KEYWORDS: Development, Services, Goalkeeper, Football, Athletes.

I. INTRODUCTION

Football is a team game that is played by kicking a ball where the ball is contested by players from two teams who are on an open field with the intention of putting the ball into the opponent's goal and defending a goal so that the ball does not enter [1]. Football itself is liked by all levels of society from children to the elderly can enjoy this one sport starting from the village, district, national and international levels [2] [3]. Football itself has a very good attraction in Indonesia, which can be seen from the atmosphere of football supporters who come to the stadium and this makes Indonesian football seen as good in the world [4].

According to [5] football players themselves are divided into four basic groups, namely: goalkeepers, defenders, midfielders, and forwards, and also soccer players have their own duties according to the basic group division above, only the goalkeeper can use his hands and is given the privilege of catching the ball in the penalty box area where other players are only allowed to use their heads, chest, and legs to play. The division of the task of positioning the players to make it easier to arrange the formation before playing because the position of the players themselves has their own responsibilities where a defender is assigned to defend the opponent's goal, a midfielder is tasked with helping to carry the ball forward, the attacking player is tasked with breaking into the opponent's goal, and the last player is the last defender who is in charge of blocking the ball into his goal [6] [7].

The goalkeeper is the last player to be the last bastion of defense after the defender whose job is very important in defense [8]. The goalkeeper also has the privilege that only the goalkeeper can use all his limbs [9] and also the goalkeeper must have good

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skills where the skill aims to drive the ball towards his goal [10]. Being the last defensive fortress for the team, the goalkeeper must master a series of ball-catching skills that are specifically used when on the field and these skills must be competent [11].

Attacking and defending all players must be involved in it, including the goalkeeper because it is a shared responsibility, in the modern era like now, not only defenders can start the attack but the goalkeeper can also start the attack from the back [12]. The goalkeeper is the last defender who has a lot of responsibility to keep his goal from conceding [13]. Not only is it required to have good catching, reflexes, and reaction techniques, just as now the goalkeeper must be able to have both bottom and top passes that are as good as the forward [14]. Therefore, the goalkeeper must be given a portion of special training by the goalkeeper coach.

The importance of information media as one of the means to be used to channel information in the form of messages/information So in the modern era like now, computerization is developing rapidly which opens up insights to disseminate and make decisions for means of disseminating information [15]. The information disseminated to the public must also be in a good form so that the information can also be used as community capital to develop the potential that exists in it [16]. It is very important that information disseminated through good media is the main choice of users and information managers [17]. It can be seen from the enthusiasm of the community when using the internet has a very rapid development than before, especially for the Special Region of Yogyakarta which is very large and as a large city is required to provide accurate and fast information to its people [18] [19]. In its development, the Special Region of Yogyakarta should be able to provide various sports coach services that can be accessed by the ASKAB and SSB Teams in Yogyakarta quickly and accurately.

Over time, many licensed goalkeeper coaches have sprung up in the Special Region of Yogyakarta today, but there are still many people who are confused to find information or the existence of goalkeeper coaches in the Special Region of Yogyakarta. Therefore, to overcome this problem, it is necessary to create media or auxiliary tools to help the community in finding goalkeeper coaches, therefore a website will be built that can display information on goalkeeper coaches, especially in the Special Region of Yogyakarta. For information to the goalkeeper coach and Asprov PSSI DIY already know about the information on this goalkeeper coach service website so that this website can make it easier and help to communicate with the goalkeeper coach when you want to use the goalkeeper coach services.

Google Maps is a free service provided by Google and is very popular [20]. Google Maps is a map of the world that can be used to see an area [21]. In other words, Google Maps is a map that can be viewed using a browser [22]. For the development of this website itself uses the help of Google Maps, because it helps to make it easier to find the address of the residence and field of the coach we want to go to and also to easily find the address of the coach [23]. According to [24] formulating services is any action or performance offered by one party to another party in principle intangible and does not cause any transfer of ownership [25]. Its production can be related and may not be tied to a physical product [26]. The development of this website itself uses the services of goalkeeper coaches and it is paid for by researchers [27].

To make it easier for website users, especially for parents or players who use smartphones, the website will be connected to a simple navigation that will be related to accessing information on the location of goalkeeper coach services in the Special Region of Yogyakarta Province [28] [29]. So in this thesis will be built a system "Development of a website based on google maps (gmaps) Location of Goalkeeper Coach Services in the Special Region of Yogyakarta Province" website aims to be a navigation aid that has been associated with the navigation website is simply associated with the purpose of associating Google maps (gmaps) so that it is easy to find the address of the goalkeeper coach in the Province of the Special Region of Yogyakarta. From the above, the researcher made observations to SSB or Private goal keepers and asked for information related to the development of this website which was to be made through conversations with 10 parents and 10 players who were researched did not know about the existence of a goalkeeper coach service information website in this area. With the development of technology and the increasing number of Smartphone users, it can be used as a background in the basis of research.

II. METHOD

This research is a type of Research and Development research that aims to create a product for the development of Information on Goalkeeper Coach Services in the Special Region of Yogyakarta Province based on the Website made this product to make it easier for the public to find the desired goalkeeper coach and in accordance with the criteria of this website itself is only specialized in the special region of Yogyakarta and the media of this website is also made for the efficiency of time looking for goalkeeper coach information in the Regional Province Special Yogyakarta.

This study uses a type of development using the Borg and gall method. Which in the development there are, among others: 1) Research and information collection. 2) Research planning. 3) Initial product development. Development of learning materials and

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evaluation instruments. 4) Preparatory field trials. 5) Revision of the results of preparatory field trials. 6) Main field test 7) Revision of main field test results. 8) Operational field test. 9) Revision of the final product. 10) Dissemination.

To get a lot of information where the information is done through a good instrument assessment. This study uses the following instrument methods.

1. Observation

Observation is a method that is carried out directly which can also be called a data collection tool through observation and records. The advantage of this method is the amount of information obtained directly by observing and recording.

2. Questionnaire

The validation given to material experts and media experts is used to get suggestions. The validation sheet will be used to obtain a feasibility assessment of the goalkeeper coach service information website. On the validation sheet addressed to material experts and media experts using a likert scale of 1 to 4.

Tabel 1. Media Grids

No	Aspects	Indicators	Sum Grain
1	Physical	The online coach service information website model is appropriate	1
2		Tampilan <i>Website</i> sudah bisa digunakan	1
3		The 2017 version of the googlemaps helper application can already integrate accurate locations/places	1
4		The application with the help of googlemaps is well connected with the goalkeeper coach's address	1
TOTAL			9
5	Design	Clarity of writing on the website	1
6		The button arrangement on the website is good and correct	1
7		Compatibility between coach categories and locations on the website	1
8		The suitability of icons on the website as a marker of online goalkeeper coaches	1
9		The icon design on the maps is easy to understand	1
TOTAL			5
14	Suppression	The website system is a very easy one Accessed	1
15		Kiper Online yang Diinginkan Desired Online Goalkeeper	1
16		Making it easier for people to find coach services Desired Online Goalkeeper	1
17		<i>Online goalkeeper coach service website improves</i> pengetahuan	1
18		The website is easy to visit with laptops/computers or smartphones	1
			5

Tabel 2. Material Expert Grid

No	Indicators	Sum Grain
1	The website model used is in accordance with its use	1
2	The provision of the trainer category menu on the website is quite clear, and functions as it should.	1
3	<i>The website used is easy to understand so that it can help find the desired training place</i>	1
4	Easy-to-use button placement	1

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5	The appointment of the goalkeeper coach's address is mapped according to the existing	1
6	The address to visit the goalkeeper coach's website is appropriate so that it is easy for the public to remember	1
7	The development of website operations is in accordance with expectations	1
8	The location on the website already covers the whole DIY	1
9	<i>The website can be run</i>	1
TOTAL		9

Tabel 3. Responwden Rating Grid

No	Indicators	Sum Grain
1	Website display is ready to use	1
2	The 2017 version of the googlemaps helper application can already integrate accurate locations/places	1
3	The website with the help of googlemaps is well connected to the goalkeeper coach's address	1
4	Clarity of writing on the website	1
5	The button arrangement on the website is good and correct	1
6	Compatibility between coach categories and locations on the website	1
7	The website is easy to visit with smartphones or laptops/computers.	1
8	The provision of the coach category menu on the website is quite clear, and it functions as it should	1
9	Easy-to-use button placement	1
10	The appointment of the goalkeeper coach's address is mapped according to the existing	1
11	The suitability of icons on the website as a marker of goalkeeper coach	1
12	The Icon design on the website is easy to understand	1
13	The location on the website already covers the entire DIY area	1
14	The language used in the website is easy to understand.	1
15	Photos of goalkeeper coaches on this website are clearly visible	1
TOTAL		15

The data obtained through the trial activities are classified into two, namely quantitative data and qualitative data. Quantitative data in the form of numerical results, collected through questionnaires or questionnaires. Meanwhile, qualitative data in the form of suggestions put forward by media experts is then collected to improve this website. And the basis for data collection is using liker scale values 1-4.

III. RESULT

1. Expert Validation

This website-based development is validated by lecturers who are experts in their fields, namely the validation of material experts and media experts. Then the results of the assessment from the validator are used as a reference for the initial product revision of the website based on Google maps (Gmaps) information on goalkeeper coach services in the Special Region of Yoagyakarta. The expert assessment above resulted in several revisions as follows.

a. Material Expert Validation Data

The material expert who became the assessor in this study was Drs. Herwin, M.Pd. who already had expertise in his field, namely football. This validation process itself receives suggestions and revisions from material experts so that it is

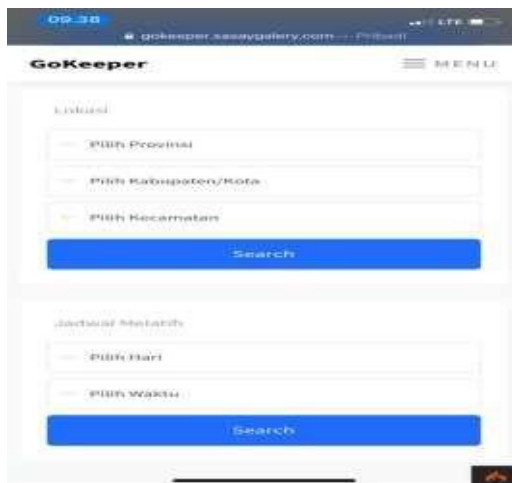
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suitable for use in accordance with the improvements, the following are the results and revisions of the website in accordance with the improvements:

1) Features in the website

Based on the assessment of material experts, there are several revisions and suggestions for several features to be added, namely the name feature on the search display is improved, this is so that website users are not confused in finding the coach they want to go to.

Before Revision



After Revision

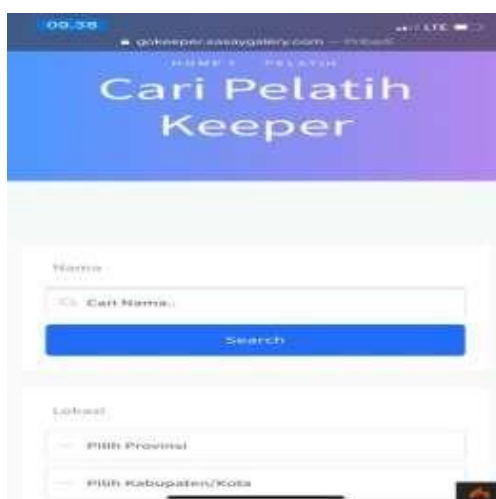


Figure 1. The Icon screen display of the trainer search is adjusted to the name, address

The revised data from the material experts themselves will be used as evaluation material to improve the products developed. The percentage obtained from the results of the examination from material experts and also from the aspects assessed The percentage of the total score is 89% with a good/decent category.

b. Media Expert Validation Data

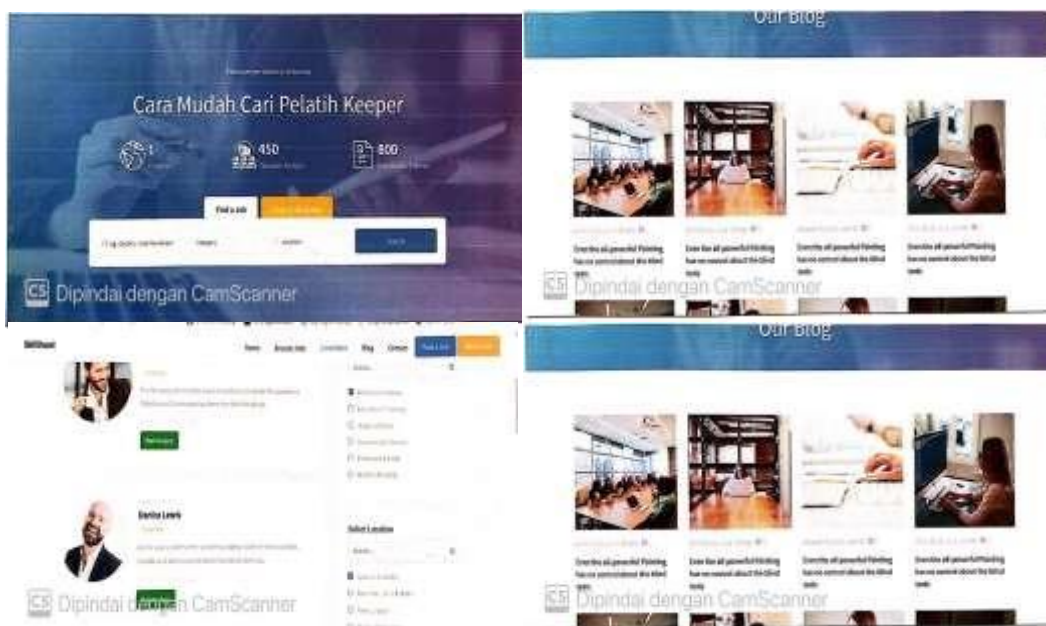
penilaian validasi ini adalah Faidillah Kurniawan, S.Pd, KOR., M.Or. yang sudah memiliki keahlian di bidang yaitu teknologi. Proses penilaian validasi ini mendapat saran dan revisi dari ahli media itu sendiri sehingga layak digunakan sesuai dengan perbaikan, dibawah ini adalah hasil dan revisi aplikasi sesuai dengan perbaikan:

1) Overall Website Display

This display improvement itself is made so that users can easily use the website, by eliminating features that are not so important, and also adding interesting features and in accordance with the theme of this website itself so that users can enjoy the website easily and as it functions.

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Before Revision



After Revision

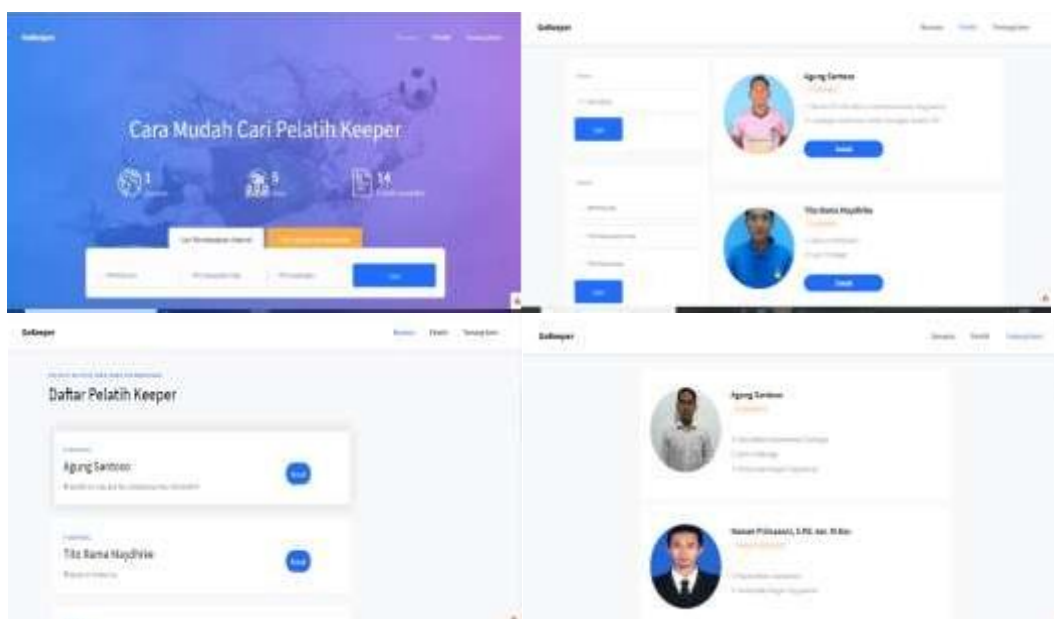


Figure 2. Tampilan website sesudah revisi

The revised data from the media experts themselves will be used as evaluation material to improve the products developed. The percentage obtained from the results of the examination from material experts and also from the aspects assessed The percentage of the total score is 75% with the category of Quite Decent.

Table 4. Data on Application Assessment Results by Media Experts

No	Assessed Aspects	Scores obtained	Maximum Score	Persentase %	Category
1	Physical	12	16	75	Quite Decent
2	Design	15	20	75	Quite Decent
3	Use	15	20	75	Quite Decent
Skor Total		42	56	75	Quite Decent

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2. Product Trials

a. Small-Scale Trial

1) Conditions of Test Subjects

The small-scale trial was held on May 28, 2021 to 10 goalkeeper coaches who were in DIY from those who coached SSB and the Club on the spot. The first thing that is done before filling out the questionnaire is to explain what the purpose of this research is, and also explain the material related to the research being conducted. When filling out the questionnaire, the coach pays attention to the explanation of the procedure for using the website and the questionnaire, the coach fills out carefully.

2) Results of small-scale trial questionnaire

Results of the coach questionnaire test regarding the media for the development of information on goalkeeper coach services in the Special Region of Yogyakarta based on the website. The percentage obtained from the small group assessment with a total of 87.5% was categorized as good/decent.

Table 5. Data from Small-Scale Trials

No.	Assessed aspects	Scores obtained	Max Score	Percentage	Category
1.	Physical	210	240	87,5	Good/Worthy
2.	Design	175	200	87,5	Good/Worthy
3.	Use	140	160	87,5	Good/Worthy
Total Score		525	600	87,5	Good/Worthy

b. Large-Scale Trial

1) Conditions of Test Subjects

The large group test was held on May 25-26, 2021 at Private Goalcorpor Ony Kurniawan, 22 goalcaps for 10 parents and 10 players. The first thing that will be done before filling out the questionnaire is to explain the purpose of this research, and explain the material related to the research being conducted. Conditions when filling out the questionnaire, the player's parents pay attention to the explanation of the procedure for filling out the questionnaire, so that the player's parents can fill it out carefully.

2) Results of the Large-Scale Trial Questionnaire

The results of the coach and student questionnaire test regarding the development of information on goalkeeper coach services in the special region of Yogyakarta based on the website. The percentage obtained from the assessment of small groups with a total number of 92% is categorized as good/decent.

Table 6. Small-scale trial result data

No.	Assessed aspects	Scores obtained	Max Score	Percentage	Category
1.	Physical	427	480	88,95	Good/Worthy
2.	Design	379	400	94,75	Good/Worthy
3.	Use	299	320	93,43	Good/Worthy
Total Score		1105	1200	92,08	Good/Worthy

3. Data Analysis Results

Based on the results of the above research, several data were obtained that resulted in the following.

- Based on the notes of material experts, to add a name icon to the initial appearance of the website and synchronize each feature.
- Based on the notes of media experts, it is recommended that the appearance of the overall set be adjusted back and the content is adjusted to the icon, and the website packaging is designed according to the character of the field of competence to be aimed at.
- Conducting a small-scale trial of 10 trainers who already have a license in DIY.
- After that, Conduct a large-scale trial to 10 parents and 10 players.
- Based on the results of the trials that have been carried out on a small scale and a large scale, results with a good/feasible category are obtained.

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The data obtained were then calculated according to the categories that had been determined, the categories in this study there were 4 other categories, namely the percentage of <40% categorized as unfeasible, 40%-55% categorized as unfeasible, 56%-75% categorized as moderately feasible, and 76%-100% categorized as feasible.

IV. DISCUSSIONS

The development of a goalkeeper coach service information website in the Special Region of Yogyakarta through a fairly long process, the initial design and production process is designed in such a way as to make it easier for users when using this website [30]. The development process through procedures and research development begins with a preliminary study to the final product [31]. After the initial product is made, the next process is evaluation from the validators. The validation stage is carried out by material experts and media experts. Then the research stage is carried out with small-scale and large-scale trials.

After conducting two trial processes (small-scale and large-scale), the advantages and disadvantages of goalkeeper coach service information websites in the Special Region of Yogyakarta were obtained. Here are the advantages and disadvantages of the website:

1. Advantages of the Website
 - a. This website can be used by parents and players as a medium to find a licensed coach, with an easy-to-understand display and also features to help find a coach according to the desired criteria.
 - b. It has been connected directly to the desired trainer's address according to the criteria.
 - c. Easy to access.
2. Disadvantages of the App
 - a. To access websites using internet data (online) cannot be accessed offline.

The assessment of the goalkeeper location service development media in the Special Region of Yogyakarta is included in the "Feasible" category. This is evidenced in the results of assessments that have been carried out by material experts and media experts as well as in small-scale and large-scale trials. Coaches feel very helped by the existence of this website, because this website itself can help introduce or provide a market to coaches. Based on the results of the media trial for the development of goalkeeper location services in the Special Region of Yogyakarta, it can be concluded that:

- a. Coaches are greatly helped by the existence of this website, the website is also equipped with features that include personal data of coaches.
- b. The trainer's dependence on smartphones is quite high, making this website easy to understand efficiently and effectively.

The use of goalkeeper coach services in the Special Region of Yogyakarta based on this website still has several limitations, including to run or access this website is still online with the help of data. In the future, it is hoped that the media of goalkeeper coach services in the Special Region of Yogyakarta based on this website can be improved. Based on the good/decent results obtained from this application, it will cause several impacts including coaches, players, and parents.

V. CONCLUSION

Based on the results of the development of google maps (gmaps) of goalkeeper coach service locations in the Special Region of Yogyakarta based on the website, there is a conclusion from the development of a website-based go keeper. All components have gone through several stages of feasibility tests, namely media expert tests, material expert tests and tests for respondents. Based on the results of the research conducted. The results of the assessment of material experts obtained a result of 89% (Feasible), for the assessment of media experts obtained a result of 75% (Quite Feasible), while for a small group trial, a website-based Go Keeper tool was obtained by 87.5% stating that the website-based Go Keeper tool was feasible to use, and the results of the research on a large trial of most of the players' parents amounted to 92% stating that it was feasible to use. With the above results, it can be concluded that the website-based Go Keeper is worth using.

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