

## **The Application of SIPenS Technology (Information System of Attitude Assessment) Based on Pancasila Student Profile as the Effort to Improve Teachers' Professionalism at Visionary Schools**

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**Abstract:** The product of SIPenS application (Information System of Attitude Assessment) is a product as solution of problems faced by teachers in the activity during assessing students' attitude based on Pancasila Student Profile which leads to high objectivity. The attitude assessment relates with the strengthen students' character that needs school and teachers' commitment to assess representatively, objectively, and sustainably. The research aim is to know how the implementation is on SIPenS application and the impact for teachers. The research uses descriptive qualitative method with the data collection through observation and interview. The research settings of visionary schools are at SMPN 1 Gresik, SMPN 4 Jombang, and SMPN 2 Mojokerto. The result shows that the implementation of the application gets positive appreciation as much as 97% from 120 teachers who have applied the application related with the clarity of assessment substance (98%), the easy application to recognize and easy to operate (98%), the understandable use of symbol, icon, and picture (97%), the function offered is based on application aim (95%), the safety of application is guaranteed (86%), and the appearance of SIPenS application is easy to remember (98%). The impacts for teachers are the application becomes the accurate solution to help teachers assess the students' attitude effectively and efficiently. The teachers understand more about the dimension of substance, elements, and sub elements of Pancasila Student Profile.

**Keywords:** attitude assessment, Pancasila student profile; SIPenS application

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### **1. Introduction**

The recent problems that happen in educational institutions are how to determine the good way to implement character education at schools. Pancasila student profile is solution from Indonesian government to teach character education [1,2,3,4,5,6,7,8] as the curriculum revised from the 2013 curriculum which is more focus on one field for one teacher to get better achievement [9]. The character education is applied through mutual cooperation activities, literacy and numeracy activities, religious guidance, flag ceremonies and school gatherings and many other character education activities [10,11,12]and also through learning with project based [13,14,15].

Pancasila student profile gives much benefit in character education since it can teach students to solve the problems in the society by observing, understanding and thinking critically before they take a final decision through their action to get better life [16,17,18,19]. The Pancasila student profile is assumed to make students get better achievement in their study and their better character as well [20,21,22,23]with the support from the parents, teachers, and their good environment [24,25,26,27,28].

The character education in Pancasila student profile implements the contextual learning in the form of faith and piety to God Almighty, global diversity, independence, mutual cooperation, critical thinking, and creativity. It shows that Indonesian government really needs to build young generation's character for better future since the knowledge without character will be dangerous for them [29,30,31,32,33,34]. Indonesian young generation must respect the Indonesian culture and must not forget who they are as the persons who care for others in their society [35,36]. The young are independent to think and to give opinions in the digital era with high responsibility and high educated character [37,38,39,40,41,42].

Other essential problems in the implementation of the Pancasila student profile are the lack of time in teaching, the less substance in teaching, the less technology mastery of the teachers, and less attention shown by the students [43,44,45,46,47,48] and the need of development in assessment instrument [49] based on various students' character [50]. The assessment done by teachers has not reflected the achievement of Pancasila student

profile [51,52,53]so the present research fills the gap that has not been done by the previous research and completes the limit in the need of assessment development of attitude assessment or affective assessment through SIPenS application. The present research aims to know how the implementation is on SIPenS application and the impact for teachers.

## 2. Research Method

The research uses descriptive qualitative method with the data collection through observation and interview. The research settings of visionary schools are at SMPN 1 Gresik, SMPN 4 Jombang, and SMPN 2 Mojokerto. The implementation of SIPenS application is seen in the indicators, namely: the clarity of assessment substance; the easy application to recognize and easy to operate; the understandable use of symbol, icon, and picture; the function offered is based on application aim; the safety of application is guaranteed; and the appearance of SIPenS application is easy to remember.

## 3. Findings and Discussion

The interview is the primary data source that is given to 120 teachers. The interview is conducted at SMPN 1 Gresik, SMPN 4 Jombang, and SMPN 2 Mojokerto. The observation is used to support the interview result. The result of the implementation of SIPenS application can be seen in table 1 below.

Table 1 The Implementation of SIPenS Application in Attitude Assessment in Appreciation Indicator

Assessment Indicator: the implementation of the application gets positive appreciation	Responses	
Do you think that SIPenS application help you as teacher to assess students' attitude in character education through the implementation of Pancasila student profile?	Positive	Negative
	97%	3%

Based on the table 1 above, it can be explained that 116 of 120 teachers think that SIPenS application has helped to assess students' attitude in character education through the implementation of Pancasila student profile. The application has helped to assess based on the indicators found in dimension, element, and sub element in Pancasila student profile. Only 4 teachers who think that the application cannot help them to assess the students' attitude because they do not master the way how to operate the application. Most of the teachers also show that they find the SIPenS application has high clarity of assessment substance. It is shown in table 2 below.

Table 2 The Implementation of SIPenS Application in Attitude Assessment in Clarity Indicator

Assessment Indicator: the implementation of the application gets positive value on clarity	Responses	
Do you think that SIPenS application has clear substance to assess students' attitude in character education through the implementation of Pancasila student profile?	Positive	Negative
	98%	2%

Based on the table 2 above, it can be explained that 118 of 120 teachers think that SIPenS application has helped to assess students' attitude in character education through the implementation of Pancasila student profile with clear substance. There are 2 teachers who think that the SIPenS application does not consist of clear substance because the lack of understanding in dimension, element and sub element in Pancasila student profile. Most of the teachers also give their positive response that the SIPenS application is easy to recognize and easy to operate. The data can be seen in table 3 below.

Table 3 The Implementation of SIPenS Application in Attitude Assessment in Easiness Indicator

Assessment Indicator: the implementation of the application gets positive appreciation in Easiness	Responses	
Do you think that SIPenS application help you as teacher to assess students' attitude in character education through the implementation of Pancasila student profile which you can apply easily?	Positive	Negative
	98%	2%

Based on the table 3 above, it can be explained that 118 of 120 teachers think that SIPenS application has helped to assess students' attitude in character education through the implementation of Pancasila student profile with easiness indicator in applying the application. There are 2 teachers who think that the SIPenS application is not easy to apply because of the lack of understanding in operational system in applying the SIPenS application in Pancasila student profile. Most of the teachers also give their positive response that the SIPenS application uses understandable symbol, icon, and picture. It can be seen table 4 below.

Table 4. The Implementation of SIPenS Application in Attitude Assessment in Understandable symbol, icon, and picture Indicator

Assessment Indicator: the implementation of the application gets positive appreciation in understandable symbol, icon, and picture	Responses	
	Positive	Negative
Do you think that SIPenS application help you as teacher to assess students' attitude in character education through the implementation of Pancasila student profile which you can apply easily?	97%	3%

Based on the table 4 above, it can be explained that 116 of 120 teachers think that SIPenS application has helped to assess students' attitude in character education through the implementation of Pancasila student profile with understandable symbol, icon, and picture. Only 4 teachers who think that they find it difficult to understand the symbol, icon, and picture because they are lack of information about symbol, icon, and picture used in application of information system. Most of the teachers also agree that the SIPenS application has high suitability of aim which can be seen in table 5.

Table 5 The Implementation of SIPenS Application in Attitude Assessment in Suitability of Aim Indicator

Assessment Indicator: the implementation of the application gets positive appreciation in suitability of aim	Responses	
	Positive	Negative
Do you think that SIPenS application help you as teacher to assess students' attitude in character education through the implementation of Pancasila student profile that is suitable with the aim of SIPenS produced?	95%	5%

Based on the table 5 above, it can be explained that 114 of 120 teachers think that SIPenS application has helped to assess students' attitude in character education through the implementation of Pancasila student profile which is suitable with the aim of application produced. The application has been able to measure how good the students are able to act based on the values of having faith in God and noble character, values of global diversity, values of independence, values of mutual cooperation, values of critical reasoning. Only 6 teachers who think that they find it difficult to match the aim of application because they are lack of information about dimension of Pancasila student profile. Most of the teachers agree that SIPenS application has security guarantee which can be seen in table 6 below.

Table 6 The Implementation of SIPenS Application in Attitude Assessment in Security Guarantee Indicator

Assessment Indicator: the implementation of the application gets positive appreciation in suitability of aim	Responses	
	Positive	Negative
Do you think that SIPenS application help you as teacher to assess students' attitude in character education through the implementation of Pancasila student profile that has security guarantee?	86%	14%

Based on the table 6 above, it can be explained that 103 of 120 teachers think that SIPenS application has helped to assess students' attitude in character education through the implementation of Pancasila student profile which has security guarantee because the application is used only by the school operators, teachers, and students who are validated by the programmer. Only 17 teachers who think that the application is trustful enough but they think that it needs to be exported in pdf and excel form which can be revised or can be changed. Seeing from the appearance of SIPenSaapplication, most of teachers agree that the appearance is easy to remember which can be seen in table 7 and Picture 1 below.

Table 7 The Implementation of SIPenS Application in Attitude Assessment in Memorable Appearance Indicator

Assessment Indicator: the implementation of the application gets positive appreciation in Memorable Appearance	Responses	
	Positive	Negative
Do you think that SIPenS application help you as teacher to assess students' attitude in character education through the implementation of Pancasila student profile which the appearance is memorable easily?	98%	2%

Picture 1 Valuing the Appearance of SIPenS Application



Based on the table 7 above, it can be explained that 118 of 120 teachers think that SIPenS application has helped to assess students' attitude in character education through the implementation of Pancasila student profile with memorable appearance. There are 2 teachers who think that the appearance of SIPenS application is not memorable because they are not interested in applying the SIPenS application in assessment of Pancasila student profile. The data are supported with the observation done by the researchers which can be seen in picture 1. From the result of observation, it also shows that the teachers have a consistent condition compared with the result of interview which shows that the teachers show great attention in training of the application which can be seen in the picture 2 below.

Picture 2 Sample of Teachers' Great Attention (Positive Appreciation) in SIPenS Training



From picture 2 above, it can be explained that the teachers show positive appreciation while they are practising to apply the application. The teachers are paying attention while they are being trained to assess students' attitude in Pancasila student profile.

This research supports the statements that the problem in character or students' attitude assessment in Pancasila student profile are real faced by teachers in Indonesia [49] based on various students' character [50]. The assessment done by teachers has met the standard stated in Pancasila student profile which helps the teachers to be more objective with fixed indicators in the assessment as the big case in implementation of character education [51,52,53]and it has been solved by applying SIPenS application.

The SIPenS application makes sure the teachers to understand the points assessed related with the character building, such as: faith and piety to God Almighty, global diversity, independence, mutual

cooperation, critical thinking, and creativity since the application helps the teachers to assess while reading the indicators for each aspect and helps them to be more focus on the elements of Pancasila students profile determined by Indonesian government [29,30,31,32,33,34]. The novelty of the research is the SIPenS application is the brand-new digital product to assist the Indonesian government' plan to manage assessment of character education at visionary schools.

#### 4. Conclusion

The SIPenS application has been alternative solution to solve the teachers' problem in attitude assessment with the standard which follow the Indonesian government in assessing the elements of faith and piety to God Almighty, global diversity, independence, mutual cooperation, critical thinking, and creativity. The SIPenS helps the teachers to be more objective to assess their students by seeing the indicators while they are doing assessment. The application is valuable in this curriculum since it is icon of teachers' character to respect the students' character achievement in an objective way.

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