

CHAPTER IV

FINDINGS AND DISCUSSION

In this chapter, the researcher will explain the research findings of students' critical thinking through podcasts. This study would answer two research questions from the research findings. Moreover, this chapter presents an overview of students' critical thinking that can be improved through podcasts in a public speaking class of the English education department at Antasari State Islamic University Banjarmasin. In addition, the findings of this study are discussed based on the result of the interviews and documentation.

A. Findings

This research was conducted at English Education Department, Antasari State Islamic University, with the participants being ten students studying public speaking in the 5th Semester and a class of 2020 students. In this part, the research will explain how podcasts can develop students' critical thinking by analyzing students' podcasts related to the first research question. Besides, the researcher interviewed some students to find their responses about critical thinking and podcast to answer the second research question. The results of interviews and documentation were presented in appendices. Therefore, the data found in the field are described in the following paragraphs.

4.1. An Analysis of Students' Critical Thinking Through Podcast in Higher Education

The research data on developing students' critical thinking through podcasts was obtained through the documentation. The research analyzed students' podcasts to specify their content and knowledge based on their projects. The researcher analyzing the data related to Anderson and Krathwol's Taxonomy consists of six levels of critical thinking skills. And also, a podcast rubric by the lecturer would be used to help the researcher analyze students' podcasts. The findings are described as follows:

a. Students' Podcast in Remembering Level

Remembering level is critical thinking skill, which refers to students remembering or recalling the information they use in the content. The researcher analyzed the data based on the indicator of the level involved, recognizing relevant information, filling in relevant content and clear explanation, and describing the topic.

From the results of the researchers analyzing ten student podcasts, the researcher found that all of the students can achieve the indicators in understanding level on their podcast, and the results of the analysis in the table below:

No	Indicator	Finding
1	Recognizing relevant information and filling in relevant content	- Students recognize relevant information by explaining intercultural communication problems, like the meaning and causes. Moreover, filling relevant content with information resources from other podcasts on

Recognizing relevant information and filling in relevant content

YouTube and based on students' experience with a clear explanation (**S1**)

Student's interview answer:

"I saw a podcast on YouTube based on my experience."

- Students recognize relevant information by explaining about K-pop in the first part and other information that is connected to the content and also filling in relevant content with the information based on the internet and arranging the sentences to connect all the information and student experience (**S2**)

Student's interview answer:

"for the information, I make some list of content and then look some information based on the list I've made from the internet, and I arranged the sentences to connect all the information."

- Students recognize relevant information by inviting guest stars as source persons. In addition, filling in relevant content from guest stars sharing about life in boarding house experience (**S3**)

Student's interview answer:

"To get the information, I watch podcasts and YouTube. After that, I decided on the title and found some guest stars that would fit with my content."

- Students recognize relevant information by explaining what mental health is. Moreover, fill in relevant content from YouTube and articles about the content, and provide a clear explanation by putting some additional statements from other researchers (**S4**)

Student's interview answer:

"I am searching in some journals about mental health. Second, I tried to article, and then I was doing summarize."

- Student recognizing relevant information based on student story as a firefighter for
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Recognizing relevant information and filling in relevant content

six years. In addition, fill in relevant content from student experiences as a firefighter and explain clearly with mention the date of the incident that the student had passed while on duty (S5)

Student's interview answer:

"I decide my content from my own experience."

- Students recognize relevant information by explaining the news about Korean pop culture, filling in relevant content from the information about Korean pop culture and connecting with student experience as KPop fans.

Student's interview answer:

"First I look for it in the article on the internet and then collect it, and after that, connecting the information with my experiences" (S6)

- The student recognizes relevant information by sharing his and his friends' experiences in the 5th Semester. Moreover, filling in relevant content from the information about Korean pop culture and connecting with student experience as K-Pop fans (S7)

Student's interview answer:

"I look for references from other people's opinions and personal experiences by concluding in the podcast I present."

- Students recognize relevant information by explaining the information about the New Year celebration based on students' content. Moreover, filling in relevant content from the information about the new year celebration based on the article from Google (S8)

Student's interview answer:

"I search some article in Google, then I read it, then I make a manuscript before presenting the podcast."

- Students recognize relevant information by
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<p>Recognizing relevant information and filling in relevant content</p>	<p>explaining anxiety, such as phenomenon and cause. Furthermore, filling in relevant content from the information about the new year celebration based on the article from Google (S9)</p> <p>Student's interview answer: <i>"As for the steps, first, I follow the draft of the podcast text on a paper, and then start digging up factual information related to my podcast topic, and then I relate it to my experience on the topic and then record it."</i></p> <p>- Students recognize relevant information by inviting guest stars as source persons. Moreover, filling in relevant content from guest stars sharing about sharing the culture shock experience as an overseas student (S10)</p> <p>Student's interview answer: <i>"First, determine the topic, continue to select participants, determine the meeting schedule, and prepare the questions. Then a discussion of podcast content."</i></p>
<p>2 Describing the topic</p>	<p>- A student describing the topic to connect the information with student experiences (S1)</p> <p>On student Podcast: <i>"It is better to know first what intercultural communication is; intercultural communication is the exchange of ideas among individuals from various Geographic locations, social groups, ethnicities and economic systems. Various difficulties in intercultural communication will arise from meeting a person from a different place, opinion, attitude and else. And based on my experience in Darrul Hijrah Islamic Boarding school where so many immigrants from various regions and cultures, there are problems in our communication.."</i></p> <p>- Students describing the topic to connect</p>

 Describing the topic

information with students' journey (S2)

On student podcast:

"what do you think about K-pop? K-pop is about music, idols, talent, and so on. K-pop, or Korean pop, is a popular music genre from South Korea with many other genres like hip hop, electronic dance, jazz, and rock, performed by groups and solo...(Introduction) I remember talking about K-pop when I first interred as a fan. I start to become K-pop fans in 2015 when I was in junior high school in 7th grade, I know about kpop is from my aunt. I like borrow my aunt's laptop to play music video or variety show about kpop. And also at those time I don't have smartphone so me and my friend, we watch music video in internet café...."

- Students' describes the topic by asking the guest star about what guest star thinks life in a boarding house (S3)

On student podcast:

"I want ask you some question, first question is what do you think about living in boarding house as a student?".. (Guest star) "for me it's very difficult because I have to adaptation in this house, I do all the stuff alone" (talk her experience)

- Student describing the topic and the information that all connected to the student experiences (S4)

On student's podcast:

"(Introduction)...Mental Health is a state of well-being in which individuals realize their potential are able to cope with normal life pressures, work productively and are able to contribute to their environment..... Insecurity is a condition when person feels insecure about herself... according to vornanen, torronen and niemela in 2009...."

- Student describing the topic based on student experience by explaining when student first joined as a member of the firefighter in banjarmasin and the
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 Describing the topic

sequence of events he had experienced while being a firefighter (**S5**)

On student's podcast:

"these all are the true events form my experience, let's start to my first day as a firefighter which is on February 3rd 2017... the first time I was on duty on February 10th 2017 there were a very big fire that I felt a fear with the fire can attack of me, but I try to be a professional eventough it was my first assignment, thanks god..."

- Student describing the topic and the information that all connected to the student experiences (**S6**)

On student's podcast:

"As I said before let's talk about Korean pop culture first. As we know Korean pop culture is able to reach all ages from children to even adults, the globalization of Korean pop culture or better known as a Korean wave or Hallyu has successfully influenced people....okay that's all the introduction about K-Pop, next here I would tell you about how I become a KPopers"

- Student describing the topic based on student and student's friends experience on 5th Semester (**S7**)

On student's podcast:

"From the experience that I had during semester five, it can be concluded that semester 5 was the most difficulties semester in my opinion and even based on opinion some of my friends too... okay everyone let's discuss one by one, the first is the difficult subject or difficult courses in semester 5, why it is difficult, because courses in semester 5 no longer focus on the theory but more on practices to prepare themselves as a teacher for example in the teacher training faculty there are teaching practice or microteaching where we applied the knowledge theory to the courses....."

 Describing the topic

- Student describing the topic with the article that student found on google and connected all the information based on the content **(S8)**

On student's podcast:

"(Introduction)...As we know a new year was celebrated every year in every country in the world, especially in Indonesia. The new year is usually marked by a ceremony or activity that symbolizes the discount all years, and joyfully welcomes the new year. There are various activities that Indonesian people do for example burning fireworks, turning the trumpets, holding music concerts and others...."

- Student describing the topic with the information from the article, and then connected all the information with student experience **(S9)**

On student's podcast:

"..(introduction)okay everyone next in 10 minutes on this podcast I would talk about anxiety attack in effecting mental health...first we talk about what is anxiety? So an anxiety attack is attack of intense of strong fear which will struggle a variety of several cycle symptoms when there is no real danger or real cause. However, anxiety becomes something unhealthy, moreover, an anxiety very difficult to control or even interferes daily activities(explaining more about anxiety)... okay everyone I want to tell you little bit about my experience in the past when I had an anxiety attack which in my opinion quite bad..."

- Student describing the topic by asking the guest star about the culture shock experience in banjarmasin **(S10)**

On student's podcast:

"... (Introduction)... to discuss the interesting topic in this podcast, I'm not alone, I'm inviting my friend to be my guest, let me introduce our

Describing the topic	<i>guest,(introducing the guest star).. you've been in 3 years Banjarmasin and you must get a lot of experience a new thing in Banjarmasin, okay let's go to the first question windha, so what do y[pou think the culture of customs of Banjarmasin in general like?..(guest star answer) okay, first I a little bit confused because I'm not from Banjarmasin and I'm dayak not banjaris so basically the languages is different and the culture is more strong i think, especially in wedding party (talk her experiences)....</i>
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b. Students' Podcast in Understanding Level

The second level of critical thinking level is the understanding level. On this level, the skill refers to students interpreting the ideas or concepts they get for content. The researcher analyzed the data based on the indicator of the level involved, classifying the information to the content and containing a summary of all the information conveyed in their words.

From the results of the researchers analyzing ten student podcasts, the researcher found that all of students can achieve the indicators in understanding level on their podcast, and the results of the analysis in the table below:

Table 4.2
Students' understanding level in critical thinking

No	Indicator	Finding
1	Classifying the information to the content	<p>- Student classified the information related to the content that it prove based on student's interview answer</p> <p><i>"all the podcasts are based on my experience but I highlighted the information in my sentences" (S1)</i></p> <p><i>"Yes, I arranged it using my own</i></p>

Classifying the information to the content

sentences so that it is easy to understand and not too formal. Because my podcast tells about my experience, the year that I took was in the past but tells it using a forward flow.” (S2)

“The content I took for my podcast is about the life of my guest star and in today's life, so it has to be continuous with the title we take to make it more interesting.” (S3)

"yes I do classify the information related to my content and support my opinion" (S4)

“My podcast contains, opening, content, and ending” (S5)

“Yes, I do because my content podcast is about my life experience. I did it mix, there are several sentences that I read directly from an article, there are several sentences that I made myself” (S6)

"I arrange the podcast content based on the sort results that I have concluded beforehand and relate them to the conclusions of personal opinions and other people's." (S7)

“I sort the information and organize it according to my sentence” (S8)

"Of course I have curiosity because of the information I got from several people. I got this information through direct delivery from these people. I also try to connect information with my content... I do not change any information, I convey it as it is, and I also provide simple conclusions according to my understanding”(S9)

2	Contains a summary of all the information and convey in their own words	<p><i>"Yes, I'd organize the information without changing it and write it according my sentences" (S10)</i></p> <p>- Student containing a summary of all the information and convey in their words, It's proven based on their podcast (S1)</p> <p><i>"...okay connecting to the issue and my experience, I would say the strategy in intercultural communication for learning English reading and observing, why? Because by reading I can learn a lot of vocabulary and then observe how it is a pronunciation."</i></p> <p>- Student containing a summary of all the information and convey in their words, It's proven based on their podcast (S4)</p> <p><i>"So from my friend's story and the information about insecurity and mental health, we can conclude that insecurity is usually marked by not having self-confidence, feeling inadequate and even feeling useless. This feeling usually arises when there is someone better than us. In fact, everyone must have the advantage without their knowing it, and one of the causes of insecurity is because of the drive for perfectionism. so what is the relationship between insecurity and mental health? alright, the relationship between the two lies in the lack of various things that makes a teenager also become stressed, and lack of gratitude towards oneself so that the insecurities become mental disorders in adolescents (continuing the explanation)..."</i></p> <p>- Student containing a summary of all the information and convey in their words, It's proven based on their podcast (S7)</p>
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Contains a summary of all the information and convey in their own words

"based on the finding from several surveys that semester 5 student has a lot of worries about themselves because they are not able to meet the expectation of their environment this worries goes to a negative though to affect their performance in lecturers...from the three reasons why semester 5 it's difficult it can be concluded that external factor such as difficult assessment and courses, and internal factor such as psychological things that affect to the performance or learning process of students in lectures.... "

c. Students' Podcast in Applying Level

The third level in critical thinking skill is applying level. This level refers to the skill of carrying out or employing a procedure by executing, implementing, choosing, demonstrating, employing, illustrating, interpreting, solving, using it. Moreover, it refers to situations in which learned material is applied through products such as models, presentations, interviews, or simulations. The researcher analyzed the data based on the indicator of the level involved; Interpreting source information into the content by the interviews or experiences

From the results of the research analyzed ten student podcasts, the researcher found that ten students can achieved the indicators in applying level on their podcast, and the results of the analysis are in the table below:

Table 4.3
Students' Applying level in critical thinking

No	Indicator	Finding
1	Interpreting the information into the content by interviews or experiences	- Student Interpreted the information based on student experiences and interviews

Interpreting the information into the content by interviews or experiences

"Okay connecting to the issue and my experience, I would say the strategy in intercultural communication for learning English is reading and observing, why? Because by reading I can learn a lot of vocabulary and then observe how it is a pronunciation" (S1)

"what do you think about K-pop? K-pop is about music, idols, talent, and so on. K-pop, or Korean pop, is a popular music genre from South Korea with many other genres like hip hop, electronic dance, jazz, and rock, performed by groups and solo...(Introduction) I remember talking about K-pop when I first interred as a fan. I start to become K-pop fans in 2015 when I was in junior high school in 7th grade, I know about kpop is from my aunt. I like borrow my aunt's laptop to play music video or variety show about kpop. And also at those time I don't have smartphone so me and my friend, we watch music video in internet café...." (S2)

"I want ask you some question, first question is what do you think about living in boarding house as a student?".. (Guest star) "for me it's very difficult because I have to adaptation in this house, I do all the stuff alone" (talk her experience)" (S3)

"From some of the data that I got it was explained that what is mean mental health according to Lau number 18 of 2014 concerning mental health is a condition in which an individual can develop physically, mentally,

Interpreting the information into the content by interviews or experiences

spiritually and socially. So the individual is aware of her own abilities and can afford come pressure. it also means that mental health has an influent on a person physique and will also interfere with productivity. Data from Riset kesehatan dasar in 2018 show the prevalence of emotional mental disorder as indicated by symptoms of depression and excessive anxiety." (S4)

"these all are the true events form my experience, let's start to my first day as a firefighter which is on February 3rd 2017... the first time I was on duty on February 10th 2017 there were a very big fire that I felt a fear with the fire can attack of me, but I try to be a professional eventough it was my first assignment, thanks god..." (S5)

"As I said before let's talk about Korean pop culture first. As we know Korean pop culture is able to reach all ages from children to even adults, the globalization of Korean pop culture or better known as a Korean wave or Hallyu has successfully influenced people....okay that's all the introduction about K-Pop, next here I would tell you about how I become a KPaper....." (S6)

"From the experience that I had during semester five, it can be concluded that semester 5 was the most difficulties semester in my opinion and even based on opinion some of my friends too... okay everyone let's discuss one by one, the first is the difficult subject or difficult courses in semester 5, why it is difficult, because courses in semester 5 no

Interpreting the information into the content by interviews or experiences

longer focus on the theory but more on practices to prepare themselves as a teacher for example in the teacher training faculty there are teaching practice or microteaching where we applied the knowledge theory to the courses....." (S7)

"(Introduction)...As we know a new year was celebrated every year in every country in the world, especially in Indonesia. The new year is usually marked by a ceremony or activity that symbolizes the discount all years, and joyfully welcomes the new year. There are various activities that Indonesian people do for example burning fireworks, turning the trumpets, holding music concerts and others...."(S8)

"there are several ways we can use to deal with anxiety attacks, the first step is to create a comfortable layout in our mind and ourselves which will reduce the burden in our mind, the second tips tells the stories with people who close to you such as friends or someone special for you, and the last tips is avoiding negative thought, like stop to think bad things because it can make your insecurity more worse" (S9)

"... (Introduction)... to discuss the interesting topic in this podcast, I'm not alone, I'm inviting my friend to be my guest, let me introduce our guest,(introducing the guest star).. you've been in 3 years Banjarmasin and you must get a lot of experience a new thing in Banjarmasin, okay let's go to the first question windha, so what do

you think the culture of customs of Banjarmasin in general like?..(guest star answer) okay, first I a little bit confused because I'm not from Banjarmasin and I'm dayak not banjaris so basically the languages is different and the culture is more strong I think, especially in wedding party (talk her experiences)....” (S10)

d. Students' Podcast in Analyzing Level

The third level in critical thinking level is, analyzing level. This level refers to the student's ability to distinguish or organizing the information related to an overall structure of the content. The researcher analyzed the data based on the indicator of the level involved; organizing the information or data related to the content.

From the results of the research analyzed ten student podcasts, the researcher found that ten student can achieved the indicators in analyzing level on their podcast, and the results of the analysis in the table below:

No	Indicators	Finding
1	organizing the information or data related to the content	- Students organized the information by connected all the parts of content On student's podcast: <i>"It is better to know first what intercultural communication is; intercultural communication is the exchange of ideas among individuals from various Geographic locations, social groups, ethnicities and economic systems. Various difficulties in intercultural communication will arise from</i>

organizing the information or data related to the content

meeting a person from a different place, opinion, attitude and else. And based on my experience in Darrul Hijrah Islamic Boarding school where so many immigrants from various regions and cultures, there are problems in our communication.." (S1)

"what do you think about K-pop? K-pop is about music, idols, talent, and so on. K-pop, or Korean pop, is a popular music genre from South Korea with many other genres like hip hop, electronic dance, jazz, and rock, performed by groups and solo...(Introduction) I remember talking about K-pop when I first interred as fan. I start to become K-pop fans in 2015 when I was in junior high school in 7th grade, I know about kpop is from my aunt. I like borrow my aunt's laptop to play music video or variety show about kpop. And also at those time I don't have smartphone so me and my friend, we watch music video in internet café...." (S2)

"I want ask you some question, first question is what do you think about living in boarding house as a student?".. (Guest star) "for me it's very difficult because I have to adaptation in this house, I do all the stuff alone" (talk her experience) (S3)

"data from RISKESDAS, basic reset, in 2018, show the prevalence of emotional mental disorder as indicated by symptoms of depression and excessive anxiety for 15 years, and overreaching around 6,1% of the total population in Indonesia or the equivalent of 11 million people. Adolescents aged 15 -24 years have a depression percentage of 6,2%. 80 - 90% of societies result from depression and excessive anxiety... according to the senteodologis 4,2% student of Indonesia have had though

organizing the information or
data related to the content

in excessive anxiety" (S4)

"these all are the true events form my experience, let's start to my first day as a firefighter which is on February 3rd 2017... the first time I was on duty on February 10th 2017 there were a very big fire that I felt a fear with the fire can attack of me, but I try to be a professional eventough it was my first assignment, thanks god..."(S5)

"As I said before let's talk about Korean pop culture first. As we know Korean pop culture is able to reach all ages from children to even adults, the globalization of Korean pop culture or better known as a Korean wave or Hallyu has successfully influenced people....okay that's all the introduction about K-Pop, next here I would tell you about how I become a KPopers" (S6)

"From the experience that I had during semester five, it can be concluded that semester 5 was the most difficulties semester in my opinion and even based on opinion some of my friends too... okay everyone let's discuss one by one, the first is the difficult subject or difficult courses in semester 5, why it is difficult, because courses in semester 5 no longer focus on the theory but more on practices to prepare themselves as a teacher for example in the teacher training faculty there are teaching practice or microteaching where we applied the knowledge theory to the courses....."(S7)

"(Introduction)...As we know a new year was celebrated every year in every country in the world, especially in Indonesia. The new year is usually marked by a ceremony or activity that symbolizes the discourt all years, and joyfully welcomes the new year.

organizing the information or data related to the content

There are various activities that Indonesian people do for example burning fireworks, turning the trumpets, holding music concerts and others...." (S8)

"..(introduction)okay everyone next in 10 minutes on this podcast I would talk about anxiety attack in effecting mental health...first we talk about what is anxiety? So an anxiety attack is attack of intense of strong fear which will struggle a variety of several cycle symptoms when there is no real danger or real cause. However, anxiety becomes something unhealthy, moreover, an anxiety very difficult to control or even interferes daily activities(explaining more about anxiety)... okay everyone I want to tell you little bit about my experience in the past when I had an anxiety attack which in my opinion quite bad..." (S9)

"... (Introduction)... to discuss the interesting topic in this podcast, I'm not alone, I'm inviting my friend to be my guest, let me introduce our guest,(introducing the guest star).. you've been in 3 years Banjarmasin and you must get a lot of experience a new thing in Banjarmasin, okay let's go to the first question windha, so what do you think the culture of customs of Banjarmasin in general like?..(guest star answer) okay first I a little bit confused because I'm not from Banjarmasin and I'm dayak not banjaris so basically the languages is different and the culture is more strong I think, especially in wedding party (talk her experiences)..." (S10)

e. Students' Podcast in Evaluating Level

The next level in critical thinking skills is evaluating level. This level refers to students' critiques of their decision or justifies the information

based on factual information. The researcher analyzed the data based on the level indicator, Giving evaluation and criticism based on the student's point of view.

From the results of the research analyzed ten student podcasts, the researcher found that five students can achieve the indicators in evaluating level on their podcast, and the results of the analysis in the table below:

Table 4.5

Student's evaluating level in critical thinking

No	Indicators	Findings
1	Giving evaluate and criticize based on student opinion	<p>- Student giving evaluate and criticize based on student opinion</p> <p>On student's podcast: <i>"Problems in English learning Intercultural communication. A learner must have front a course a learning challenge or handle, when learning English is less, than desirable student learning results, in my result from these challenges. Numerous issues are appealing which causes people to feel afraid when they communicate what they learn, and additionally, there are three language components in language learning, for the first one is pronunciation, the second is vocabulary and the last is grammar.... so intercultural communication is communication between people in different cultures, and there are three problems that often arise namely pronunciation, vocabulary and grammar. And strategies can be used variously depending on the strategy you built by yourselves" (S1)</i> <i>"So what is the relationship between security and mental health? All right, the relationship between the two lies in the lack of confidence in various things that makes teenagers also become stressed, and lack</i></p>

Giving evaluate and criticize
based on student opinion

gratitude towards oneself so that insecurity becomes a mental disorder in adolescents. The excessive feeling of insecurity experienced by the individual itself, can result in a mental illness and this was serious fatalities....every human has problems and anxiety, you don't need denial even avoid them, you just have to accept them gratefully with not having to compare with others. If you feel insecure, just tried to lead the energy to accept it." (S4)

"From the result of interviews that I have conducted with several seniors who have had success in the lecture, they give several tips on the right way so that we can go through this Semester well, number one is frequently asking or discussing with seniors regarding lecture material that will be studied in the coming Semester to facilitate understanding in the lecture material. And the last is, to be a disciplined person both in college and at home,, (closing)" (S7)

"Many of us think that the New Year celebration is identified with having fun and spending money on useless things, how glorious it would be if we all use the money for positive activities such as eating together with neighbours, sharing with children in our orphanages, this is certainly more beneficial and the charity is better" (S8)

"Based on my experience we can really see that an anxiety attack can affect a person's mentality and can even make a person decrease because of excessive anxiety that can't handle it can cause suicide. I have read quotes from a Greek philosopher namely Epictetus, who said (It's not certain things or events that trouble us, but our perception of

Giving evaluate and criticize based on student opinion

those events) and then I think anxiety usually comes from our perception of events that we can't control, so are require focus on activities that we can't control. And then the most important in my opinion is the calm that must be installed us, if we are calm we are able to face the thing that we feel is difficult and we will find the solution to existing our problem" (S9)

f. Students' Podcast in Creating Level

The last level in critical thinking skills is creating a level, which refers to students' designing the information into a new concept based on their perspective or point of view. The researcher analyzed the data based on the indicator of the level involved, designing the information related to the content into their sentence.

From the results of the research analyzed ten student podcasts, the researcher found that all of the students can achieve the indicators of creating level on their podcast, and the results of the analysis in the table below:

Table 4.6.
Student's creating level in critical thinking

No	Indicators	Findings
1	Designing the information related to the content into their own sentence	- Student designing the information related to the content by arrange and organize the information that connected to their content and experience, moreover, it's arrange into their own sentences to more easier understand In student's interview answers: <i>"All the podcast based on my experience, so i create the story' but I highlighted the information in my</i>

Designing the information related to the content into their own sentence

sentences" (S1)

"The podcast is about my past experience but tells it using a forward flow. I made it into my sentences to easily understand and not too formal" (S2)

"my podcast about guest star's experiences, and have to connect with my title to make the content sounds more interesting" (S3)

"yes I do classify the information related to my content and support my opinion" (S4)

"I'm organizing what I should tell to the listener and tell them some information that I got from my experience" (S5)

"my content podcast it's about my experience, but I take some information and conveying without changing it, or changing into my sentences to connect with my experiences" (S6)

"the podcast is based on the result of my conclusions and is also from the conclusions of other people" (S7)

"I sorted the information related to my content and arrange it into my sentences" (S8)

"I take general information about my topic, after that organize the information and write it back to connected with my experience" (S9)

"I structure the content with sorting the information and write it into my own sentences" (S10)

4.2. Student's responses on developing critical thinking through podcast

In the results of the analysis carried out by the researcher, several levels of critical thinking have been achieved in the student podcast. However, to find out whether it is true that students' critical thinking can develop in student podcasts, it can be seen by conducting interviews to find out participants' responses to this. Below is evidence from the interview.

"Yes, I think create a podcast can develop my critical thinking because I create a story that based on my experience" (S1)

"Yes, we can develop critical thinking skills because from making podcasts I can find interesting themes and content for people to listen to, therefore we have to think critically (think deeply) so that the themes we create are different from others" (S2)

"That's right the final task of making a podcast really makes us think critically, from us responding to speakers, to pick the good words that have to come out of our mouths" (S3)

"Yes, because creating a podcast can help us convey what we want to convey to listeners. In addition, we are also free to have an opinion" (S4)

"Yes, because we can make things that we like on that podcast" (S5)

"Yes, by creating a podcast, I am required to analyze all the information that I have obtained and then present it in my own language" (S6)

"In my opinion, making a podcast can develop my critical thinking skills because a podcast must contain information or messages that we have arranged well and are interesting so that the discussion can develop more which triggers critical thinking in the process" (S7)

"Yes, I think it develop my critical thinking because it make me get experience for creating podcast and make me think seriously and broadly for the content" (S8)

"Yes, because with this projects make me think in deep and must think the interesting content for my topic podcast." (S9)

"Yes, during the podcast I think a lot so that it trains my thinking skills, expresses a lot of opinions and experiences as well as trains my communication" (S10)

Based on the results of interviews with ten participants, students of the English Language Department, about their podcast showed that they could develop their critical thinking skills through the podcast. The researcher

highlighted several answers that were almost the same, from these answers the researcher concluded that there were two points obtained from the results of student podcasts.

a. Increasing Students' Creativity

From the interview, researcher founded three of ten students answer showed that by making these podcasts they could increase their creativity by finding interesting themes and content that would attract listen their podcasts content. For example:

"Yes, we can develop critical thinking skills because from making podcasts I can find interesting themes and content for people to listen to, therefore we have to think critically (think deeply) so that the themes we create are different from others" (S2)

b. Increasing Students' Insights

The last point researcher founded three of ten students answer showed that the podcasts also improves their insight to analyze the information they get and challenge them to organizing and producing the podcasts. For example:

"Yes, by creating a podcast, I am required to analyze all the information that I have obtained and then present it in my own language"(S6)

B. Discussion

After the data is presented in the description above, the researcher writes and analyzes based on the findings that have been written. The

researcher has two research questions answered in this study. After conducting research and analyzing all the data, the researcher wants to convey the findings and relate them to the existing theory. Below is a discussion of the findings.

1. An Analysis Students' Critical Thinking Through Podcast in Higher Education

Based on findings, the researcher found in a student podcast from English language students, who are taking a study of Public Speaking in the 5th Semester, can develop student critical thinking at several levels. These levels were developed from Anderson and Krathwol Taxonomy (2001); there are six levels in critical thinking: Remembering level, Understanding level, Applying level, Analyzing level, Evaluating level, and Creating level.

The results of the podcast the researcher took were students' final assignment in a public speaking class where they were asked to create their podcast with interesting content and clear delivery. Therefore, the researcher analyzed student podcasts to determine whether students' critical thinking development could develop in the production process and from the podcast results. Critical thinking is important for students because these skills can develop individual creativity, think more logically, and take various actions after analyzing a problem (Chaffe, 2014, Chafee, McMelon, 2011). Hence, students on their podcasts can find problems and solutions, distinguish between fact and false, and evaluate and conclude all existing data (Fisher, 2001). However, the findings of researchers on student podcasts in the

development of students' critical thinking developed by Anderson and Krathwol's taxonomy, shows that all of ten students achieved the six levels of critical thinking and by producing the podcasts they can also enhance their creativity and insights.

a. Remembering level

The first level in students' critical thinking is remembering levels. Remembering level in the theory of Anderson and Krathwol's taxonomy (2001) is the skill to recognize or recall the knowledge and the information to create or remember the definitions and facts or to recite previously learned information. Moreover, this level refers to students' remembering or recalling the information they use on student podcast content. In analyzing the results of student podcasts, to determine students' critical thinking skills, researchers use indicators to determine them. Based on indicators in remembering level involved, recognizing relevant information, filling in relevant content and clear explanations and describing the topic. From the indicators at the remembering level, the results show that all of the ten students analyzed have developed their critical thinking at this level.

b. Understanding Level

The second level of student critical thinking is the understanding level. Based on Anderson and Krathwol's taxonomy (2001), understanding level refers to the skill of creating meaning from functions like written or graphic messages or activities such as interpreting, exemplifying,

classifying, summarizing, inferring, comparing, or explaining. The understanding level focuses on students' interpreting the ideas or concepts students get from the content. There is the indicator of the understanding level involved; Classifying the information relates to the content and obtaining a summary of all the information and conveying it in their sentence. From the indicators at the understanding level, the results show that of the ten students' podcasts analyzed, four students have developed their critical thinking at this level.

c. Applying Level

Furthermore is applying level. Based on Anderson and Krathwol's taxonomy (2001), applying level is the skill of carrying out or employing a procedure by executing or implementing it. Moreover, it refers to situations in which learned material is applied through products such as models, presentations, interviews, or simulations. The indicators of this level were, interpreting source information into the content and delivering workable solutions related to content. From the indicators of the applying level, the results show that of the ten students' podcasts analyzed, four students have developed their critical thinking at this level.

d. Analyzing Level

The fourth level is analyzing level. Anderson and Krathwols' taxonomy (2001) this level refer to the skill of dividing materials or concepts into parts, determining how they relate to one another or interrelate, or determining how they relate to an overall structure or

purpose. This function includes mental actions such as differentiating, organizing, and attributing, as well as the ability to distinguish between components or parts. Wilson (2016) stated that from the theory of blooms' taxonomy analyze were the ability to break down or distinguish the parts of material into its components so that its organizational structure may be better understood. Based on the theory were how their organized the information related to into all parts. From the indicators of the analyzing level, the results show that of the ten students' podcasts analyzed, only one student has developed critical thinking at this level.

e. Evaluating Level

The next level is the evaluation level. In Anderson and Krathwols' taxonomy (2001), evaluating level refers to checking and critiquing judgments based on criteria and standards. Some content that can be created to demonstrate the evaluation processes are critiques, recommendations, and reports. In addition, this level refers to students' critiques of their decision or justifies the information based on factual information. Wilson (2016) explained from the theory of Bloom's taxonomy, evaluating level is the ability to judge, check, and even critique the value of material for a given purpose. The indicators of this level were giving evaluation and criticism based on student opinion. From the indicators of the evaluating level, the results show that of the ten students' podcasts analyzed, four students have developed their critical thinking at this level.

f. Creating Level

The last level is creating level. Anderson and Krathwols' taxonomy (2001), creating level refers to reorganizing content and information into new patterns or structures by generating, planning, or producing. Creating requires users to combine parts in new ways or synthesize components into something new and different, resulting in a new form or product. Moreover, this level refers to students' designing the information into a new concept based on their perspective or point of view. In addition, selecting themes and compiling information is one of the skills in critical thinking because, in critical thinking, students can develop individual creativity, think more logically, and take various actions after analyzing a problem (Chaffe, 2014).

After researching and observing, researchers concluded that of the six levels of Anderson and Krathwols' taxonomy, which focuses on developing critical thinking, only two levels can be achieved from the ten student podcasts. However, several levels show the development of student's critical thinking, each level achieved by four students and one level which is only achieved by one student podcast. According to the researcher, this can happen based on the student's post content. The researcher concludes that podcast content that can be developed based on the six levels of critical thinking from Anderson and Krathwols' taxonomy (2001) is content that contains problems that are scientific in nature and can be proven from information data that is used as an additional reference or reinforcement of statements put forward by

students in their podcasts. Fisher (2001) stated that critical thinking is evolved from an idea based on a scientific thinking model to one encompassing making decisions, observations, and dispositions. It contains some introductory statements concerning the offering, assessing, and caring about reasons. It can be concluded that there is some student podcast content that is not based on scientific thinking, so there are several levels of critical thinking that students do not achieve.

2. Students' responses on developing critical thinking through podcast

Students' responses on developing critical thinking through podcasts have same answer. Ten main participants were taken based on their experience by processing make their podcast to final assignments in Public Speaking class at English language department, UIN Antasari Banjarmasin. The result of interviewed were all of the participant agreed about podcast can developing their critical thinking. Highlight some answers, the researcher get some two points, the first point was podcasts increased their creativity, and the second point was podcasts increasing their insights by analyzing the information they get from the podcast.

a. Increasing Students' Creativity

At this point, three students answered that by making these podcasts, they could increase their creativity by finding interesting themes and content that would attract listeners to listen to their content. Hence, it shows that in the process of making a podcast, creativity is needed to make content that is interesting and different from the others. In addition,

selecting themes and compiling information is one of the skills in critical thinking because, in critical thinking, students can develop individual creativity, think more logically, and take various actions after analyzing a problem (Chaffe, 2014). In addition, Anderson and Krathwols' taxonomy (2001) is related to one of the levels; creating levels when creating requires users to combine parts in new ways or synthesize components into something new and different.

b. Increasing Students' Insights

The last point, podcasts are increasing students' insights by analyzing the information they get from their content podcasts. The results of the student interview answers, three of them answered that the podcast improves their ability to analyze the information they get so that they relate it to the topic of the podcasts, and can also compose sentences that they will choose good sentences and are easily understood by listeners. Philips (2015) stated that in making a podcast must have several skills in researching and analyzing the information students get, making an outline, compiling and scripting, and finally, repeating exercises in pronunciation and fluency. Also, these results are in accordance with Anderson and Krathwols' Taxonomy (2001) in analyzing level were referred to the student's abilities in dividing the information or the concepts and determining how it can relate to an overall structure or purpose.