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# Using Cryptocurrency to Motivate Students: Teachers' Willingness to Innovate

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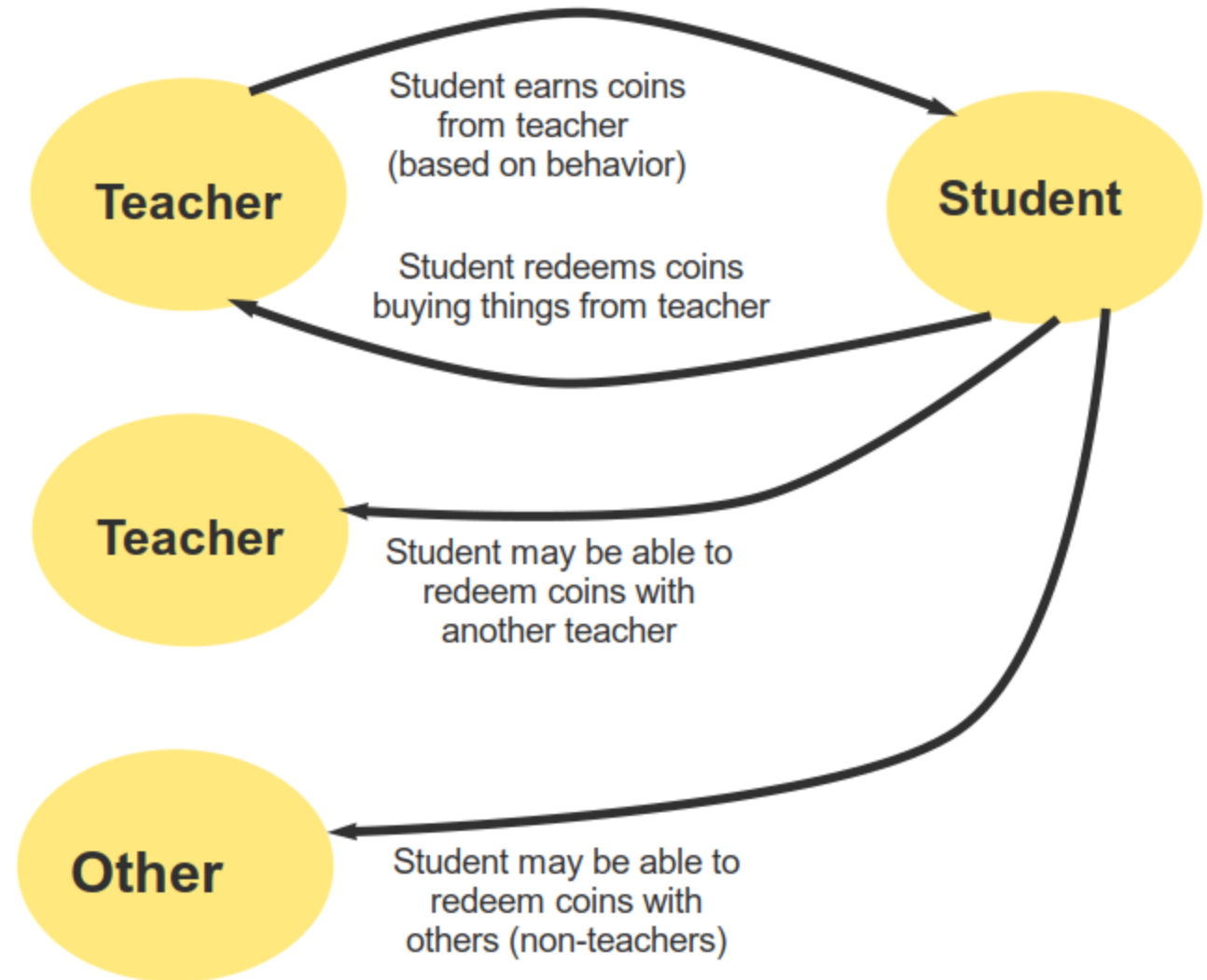
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# Background

- Andre (2022) conceptualized a new cryptocurrency
- Focusing on educational benefits
- Limitation of coins become a strength, not a weakness
- Need students **and** teachers to support system
- Students report willing to change behavior for it
  - 89% of respondents
- But students are easier, because they get something for free.

# Concept of coin

- Lecturer gives coins to students
  - Based on behavior to motivate
- Student can redeem coins with teacher for whatever teacher offers
- Maybe one teacher will accept coins given by other teacher
- Coins could be used for other educational purposes.



# Research Questions

- Would lecturers be interested in this coin?
- What behaviors would teachers have students change?
  - To earn the coins
- What would the lecturers offer to students in trade for coins?

# Methods

- Exploratory qualitative research
- Cannot use TAM or UTAUT for non-existent technology

## Example questions

- “The quality of the output I get from the system is high” (TAM3)
  - (Venkatesh & Bala, 2008)
- “Working with the system is fun” (UTAUT)
  - (Venkatesh et al., 2003)
- Not appropriate when cannot demonstrate.

# Sample

- Sample size: 26 university lecturers
- 81% teach Business or Finance
- Average: 11 years of teaching
  - None less than 3 years of teaching
- Both Vietnamese and foreign university lecturers.

<b>Gender</b>	<b>Respondents</b>
Female	14 (54%)
Male	12 (46%)

<b>Where do you teach</b>	<b>Respondents</b>
Public university	16 (55%)
Private university	5 (19%)
Public and private universities	5 (19%)

# Expressed Interest

- 69% of lecturers are interested (4) or very interested (5)
- None were completely uninterested.

<b>Level of interest from lecturers</b>	<b>Respondents</b>
Very interested (5)	6 (23%)
Interested (4)	12 (46%)
Maybe interested (3)	4 (15%)
Somewhat interested (2)	4 (15%)
Not interested (1)	0

# Behavior to Change

- Lecturers report wanting to increase in-class participation
  - And attendance
- May represent frustration with lack of student participation
- May be about teachers' daily lived experiences
  - Wanting to motivate themselves
- Students often quiet in class due to peer pressure
  - Coin may overcome this.

Student behavior to motivate	Respondents
In-class participation	21 (81%)
In-class participation or attendance	23 (88%)
Grades	7 (27%)



# Offering to students

- 50% responded that students rarely come to office hours
- Lecturers willing to give more of their own time
  - Including consulting for startups
  - Note: 81% teach business or finance.

How many students use offerings	Respondents
Usually no students	0
Very few students (1-3)	7 (27%)
4-6 students per semester	6 (23%)
7-10 students per semester	4 (15%)
More than 10 students each semester	9 (35%)

What could coins buy from you	Respondents
More of my time, discussing different topics than usual	15 (58%)
Unsure, need to consider it more	9 (35%)

# Value of lecturer's time

- Most of what students want is more of lecturer's time
  - See table from earlier paper (Andre, 2022)

What could coins buy from you	Respondents
More of my time, discussing different topics than usual	15 (58%)
Unsure, need to consider it more	9 (35%)

What would they like to use coin to pay for?	Percent rating 4 or 5
Receive improvement recommendations before assignment submission	83%
Teacher's consultation time how to best complete an assignment	78%
Know if assignment will pass or fail before submission	76%
Take additional classes related to their major	74%
Attend seminar or conference others cannot attend	70%
Take classes unrelated to their major	65%
To access personal counseling services (for general education plans)	62%
To meet privately with a guest speaker (VIP pass)	61%
Retake a course after graduation as a refresher	57%
To attend a guest speaker session	51%

Source: Andre (2022)

# Limitations on who can redeem

- Lecturers willing to give benefits to non-students
- So Lecturer A can give coins and Lecturer B will redeem them
- Only 26% of respondents said they need coins to have value to them
- Many lecturers would use coins they receive to motivate students
  - Closing the loop of the system
- Other here includes additional limits to non-students.

<b>Must be current student?</b>	<b>Respondents</b>
Yes	9 (35%)
No	11 (42%)
Other	6 (23%)

# Conclusions

- We already know that students want a coin like this (89%)
- Now we know lecturers also want it (69%)
- Lecturers want to motivate in-class participation most
  - Coin may overcome peer pressure keeping students silent in class
- Lecturers willing to give more of their time
  - Which matches what students want to buy with their coins
- Lecturers do not need to buy anything with their coins
  - They mostly just want to motivate students.

# References

- Andre, J. (2022). Using Cryptocurrency to Increase Student Motivation and Agency: Thoughts from Vietnam. *International Journal of Emerging Technologies in Learning*, 17(13). <https://doi.org/10.3991/ijet.v17i12.30475>
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