



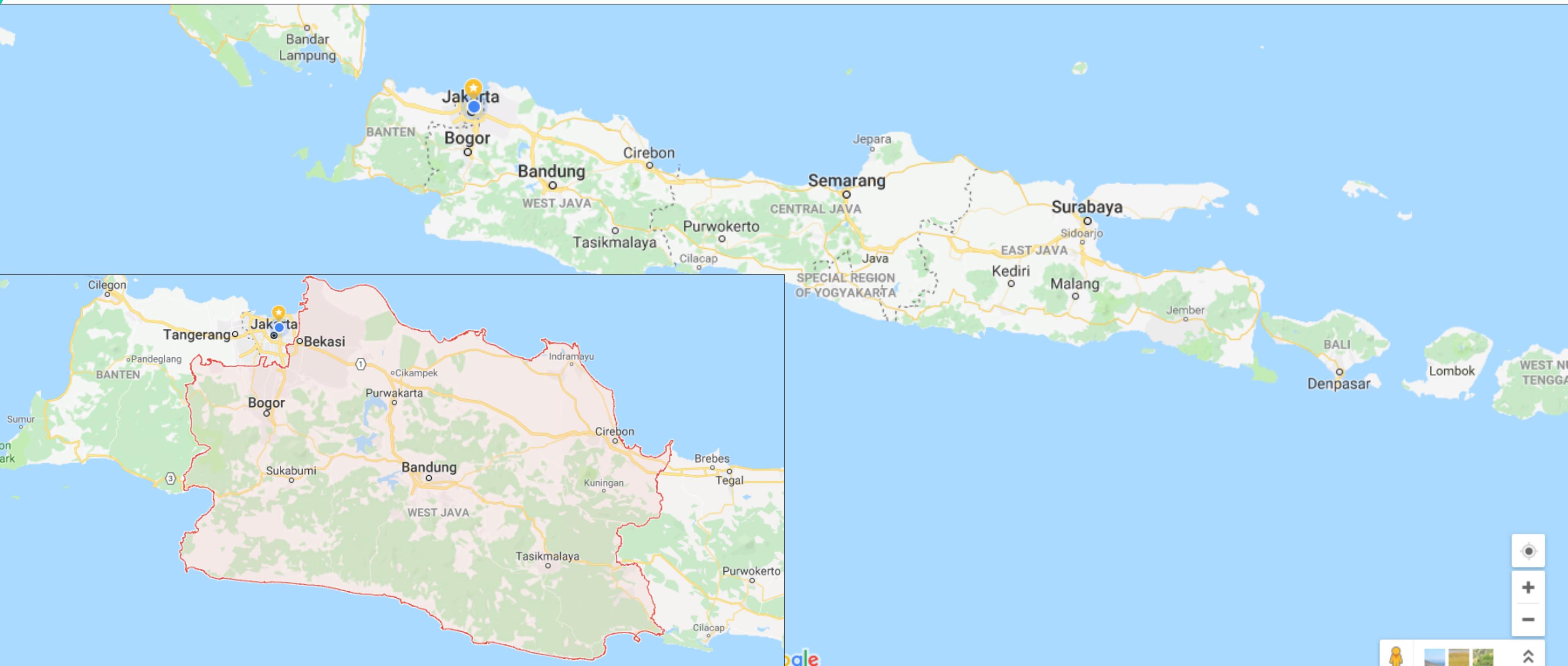
**CARIOSAN SUNDA**  
AUGMENTED REALITY

# MOBILE-BASED AUGMENTED REALITY SUNDANESE ALPHABETS EDUCATION

**PRAGMA 35**  
3<sup>rd</sup> – 6<sup>th</sup> October 2018  
PENANG, MALAYSIA

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# SUNDANESE WEST JAVA and BANTEN



# SUNDANESE CULTURE

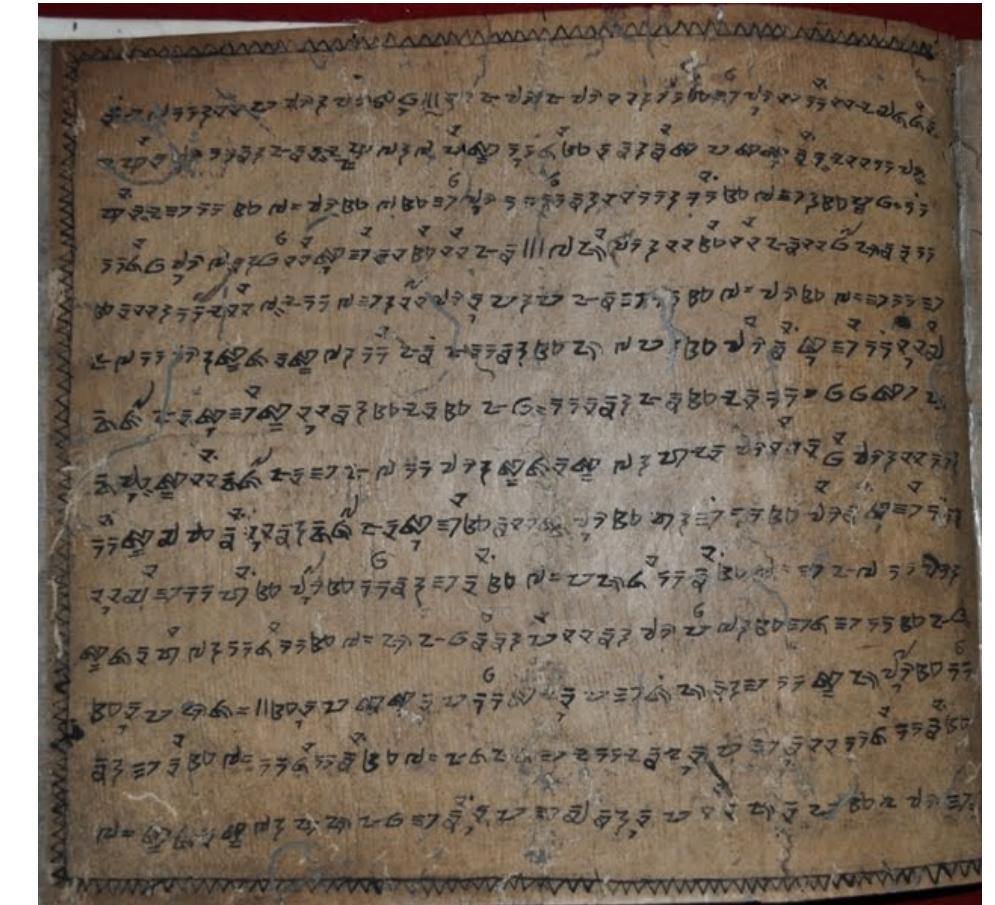


JAIPONG DANCE



ANGKLUNG

FOCUSING :



SUNDANESE  
ALPHABETS



CARIOSAN SUNDA  
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# SUNDANESE ALPHABETS

## BASIC ALPHABETS

ା	ି	ା	ି	ି	ି	ି	ି	ା	ି
na	la	ja	ma	ha	ba	pa	ca	ga	
ା	ି	ି	ି	ି	ି	ି	ି	ି	ି
da	nga	ya	nya	ta	wa	sa	ra	ka	



# SUNDANESE ALPHABETS

## SWARA and NUMBERS ALPHABETS

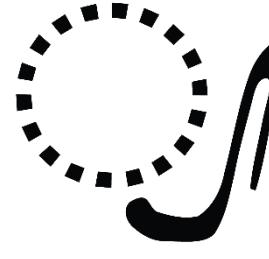
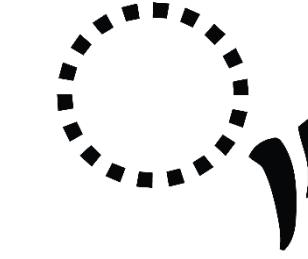
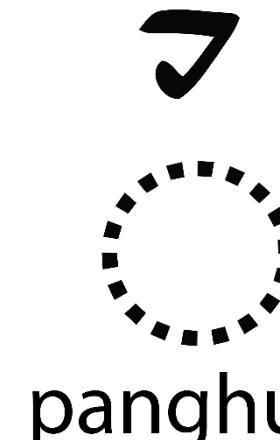
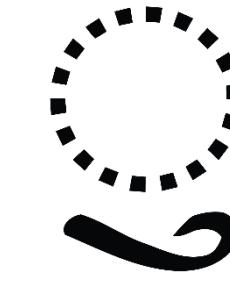
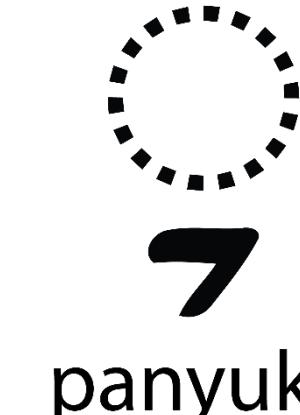
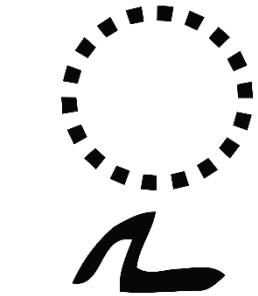
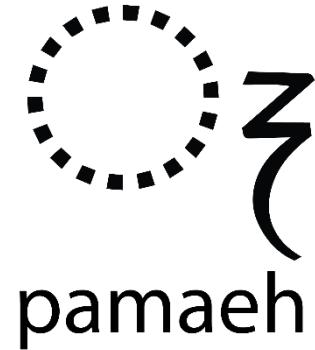
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ڽ	ڽ	ۑ
i	u	eu
ڽ		
a		

ଓ	ۑ	ۑ	ۑ
0	1	2	3
ڽ	ڽ	ڽ	ڽ
4	5	6	7
ڽ	ڽ	ڽ	ڽ
8	9		



# SUNDANESE ALPHABETS

## Rarangken



paneuleung



# SUNDANESE ALPHABETS

## EXAMPLE

ିି = ka

ିି = ki

ିି = ku

ିି = ke

ିିୟ = ko

ିିୟ = k



# INTRODUCTION

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- Lack of interest of teenagers especially in West Java in learning local language/ alphabet.
- Rare use of Sundanese language as daily conversation language.
- Prevent extinction of Sundanese Alphabets.



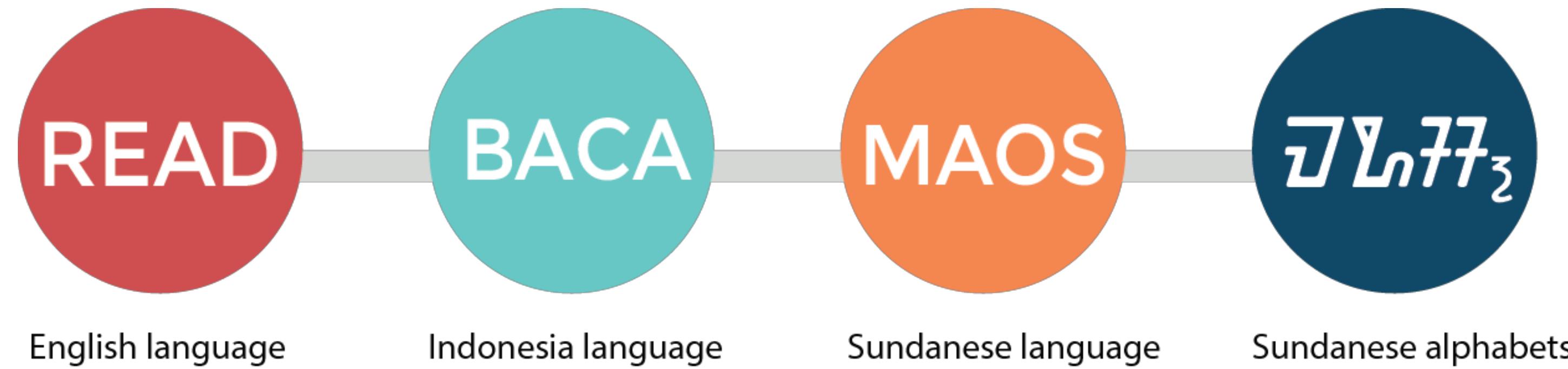
# GOALS

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- 
- Making Augmented Reality Technology useful as a learning method in learning culture and language
  - Introducing Augmented Reality technology as an attractive learning method that Increases the desire to find out more about culture and language



# Convert to Sundanese Alphabets



# FEATURES

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**HISTORY OF SUNDANESE ALPHABETS**

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**WRITING SUNDANESE ALPHABETS**

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**SUNDANESE RARANGKEN**

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**SUNDANESE ALPHABETS AUGMENTED REALITY**

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**DOWNLOAD FLASH CARD**

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**FEEDBACK**

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**QUIZ**

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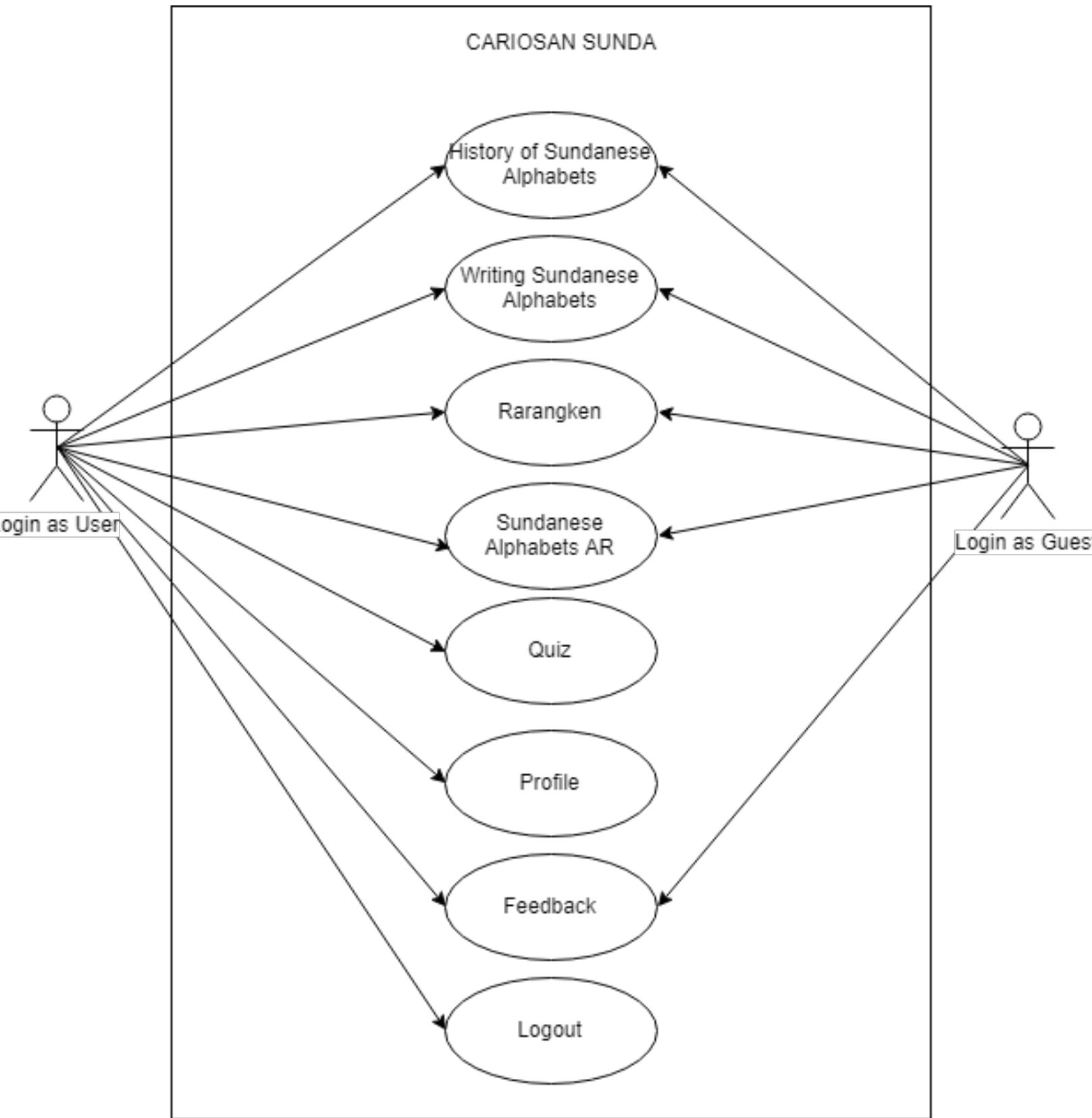
**ACCOUNT(SIGNUP/SIGNIN)**

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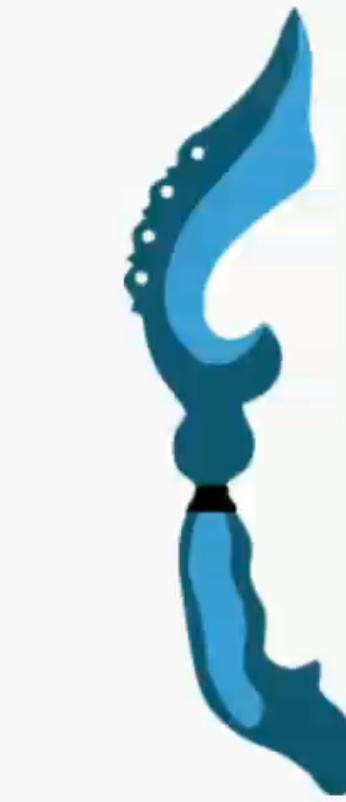


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# USE CASE



# INTERFACE



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# BENEFITS OF RESEARCH

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- Able to increase curiosity and knowledge about local languages especially in West Java(Sundanese) among Indonesian teenagers.
- Can be suggestions for DISPUBDAR (Department of culture and tourism) West Java in Socializing the regional of the province of West Java regarding the maintenance of language, literature, and regional alphabets.
- Participate in preserving Sundanese language, especially Sundanese Alphabets, to public.



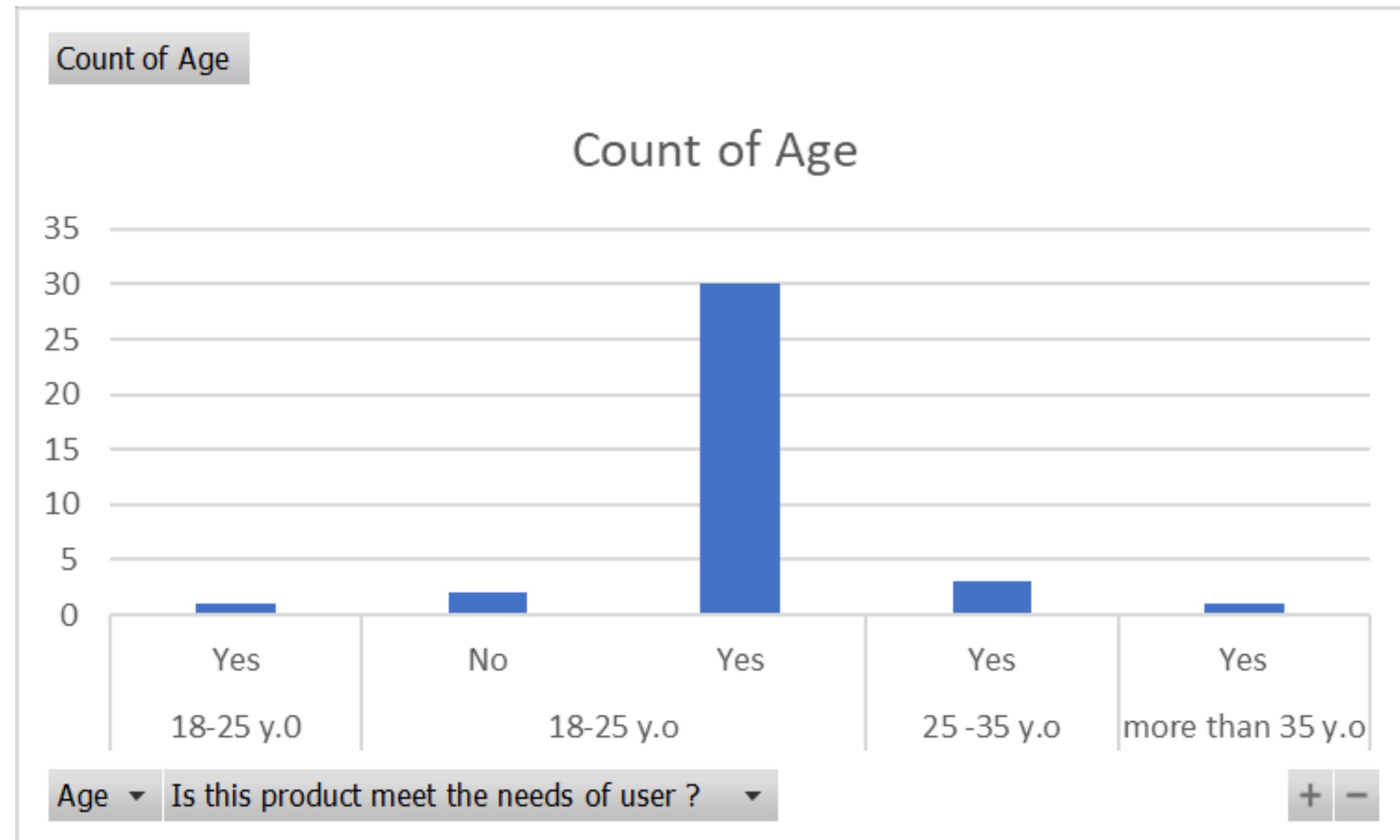
# TESTING RESULTS

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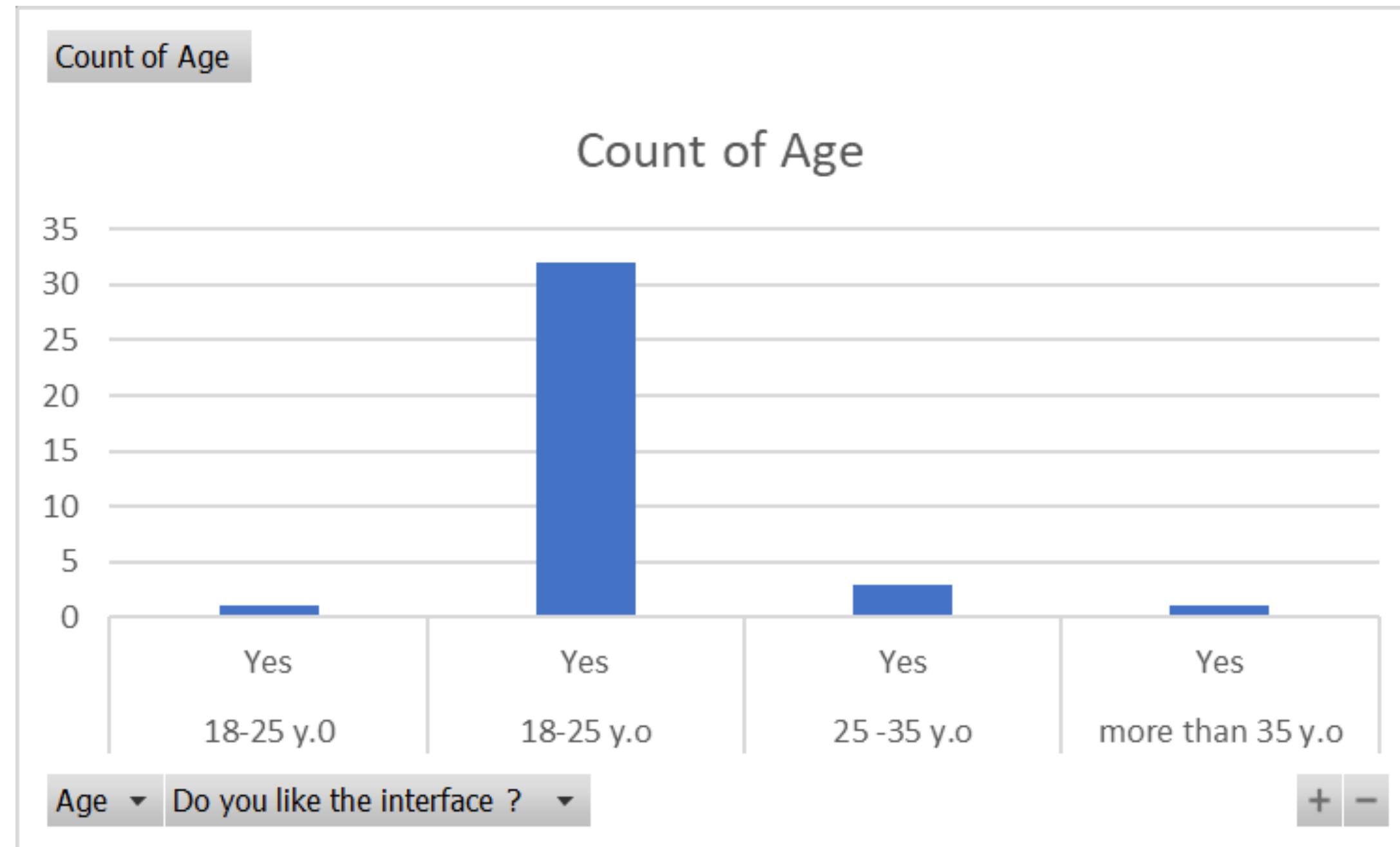
Number of respondents : 35  
Range Age : 18 – 30 years old  
Type of Testing : Interview and Form



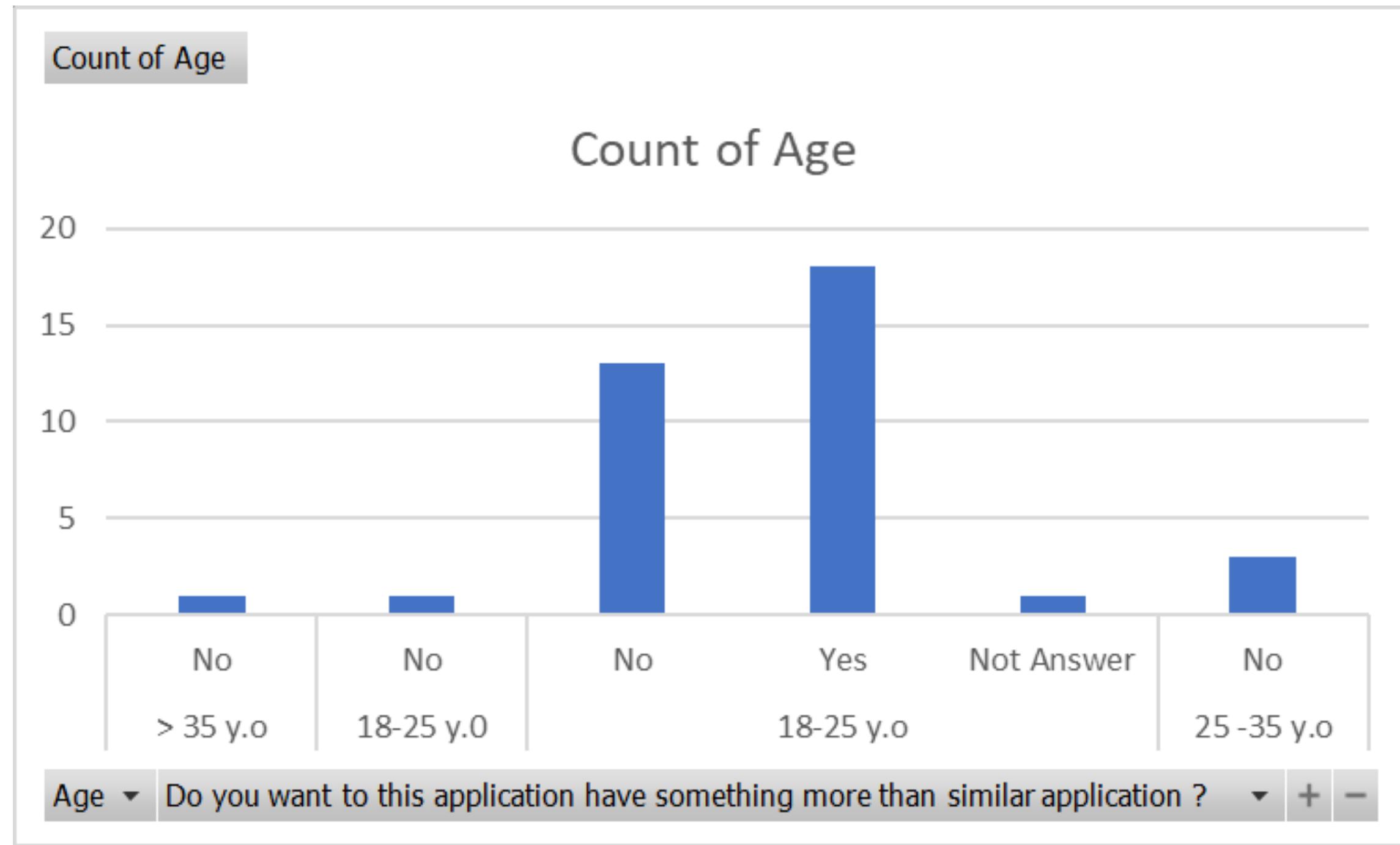
# Is This product meet the needs of user ?



# Do you like the interface ?



# Do you want to this application have something more than similar application ?



# CONCLUSION

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From the result that we've done.

- This application meets the need of user.
- The interface is great enough.
- Respondents want this application added something more than similar application.



# ACKNOWLEDGMENTS

- Funded through a student Creativity Program (PKM-KC) grant from the Ministry of Higher Research and Education
  - Already registered in HAKI (Hak Atas Kekayaan Intelektual / Intellectual Property Rights)
  - Already registered and published in GooglePlay
- S t o r e



REPUBLIK INDONESIA  
KEMENTERIAN HUKUM DAN HAK ASASI MANUSIA

## SURAT PENCATATAN CIPTAAN

Dalam rangka pelindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan : EC00201846123, 19 September 2018

**Pencipta**

Nama	: Muhammad Reza Aditya, Resskytha Pernata Sari, , dkk
Alamat	: Rusun Boing LA/519 RT 001/013 Kebon Kosong Kemayoran, Jakarta Pusat, Dki Jakarta, 10000
Kewarganegaraan	: Indonesia

**Pemegang Hak Cipta**

Nama	: Universitas YARSI
Alamat	: Jl. Let Jen Suprapto Kav.13, Jakarta Pusat, Dki Jakarta, 10510
Kewarganegaraan	: Indonesia
Jenis Ciptaan	: Program Komputer
Judul Ciptaan	: Cariosan Sunda
Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia	: 17 Juli 2018, di Jakarta
Jangka waktu pelindungan	: Berlaku selama 50 (lima puluh) tahun sejak Ciptaan tersebut pertama kali dilakukan Pengumuman.
Nomor pencatatan	: 000117892

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.  
Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.



a.n. MENTERI HUKUM DAN HAK ASASI MANUSIA  
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL

Dr. Freddy Harris, S.H., LL.M., ACCS.  
NIP. 196611181994031001

# ACKNOWLEDGMENTS



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Adri Nursimarsyan - Muhammad Reza Aditya - Resskytha Permata Sari  
est - Dec 2017, FTI-TI'15, YARSI University

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# FLASH CARD

Cariosan Sunda Design



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**THANK YOU**



# **CARIOSAN SUNDA**

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“A Great Nation is a Nation that Appreciates Culture”. – Ir.  
Soekarno