

LANGUAGE TRANSLATOR

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DESCRIPTION

- **Translate text without typing:**

Translate text in image by taking picture using camera

Displaying translated text and provide pronunciation

- **Support multiple languages:**

Chinese, Spanish, French, Japanese, Korean, Russian, Dutch

- **Support user log in via google account**
- **Save translated words with the meaning to My Glossary**
- **Retrieve and edit My Glossary on any device**

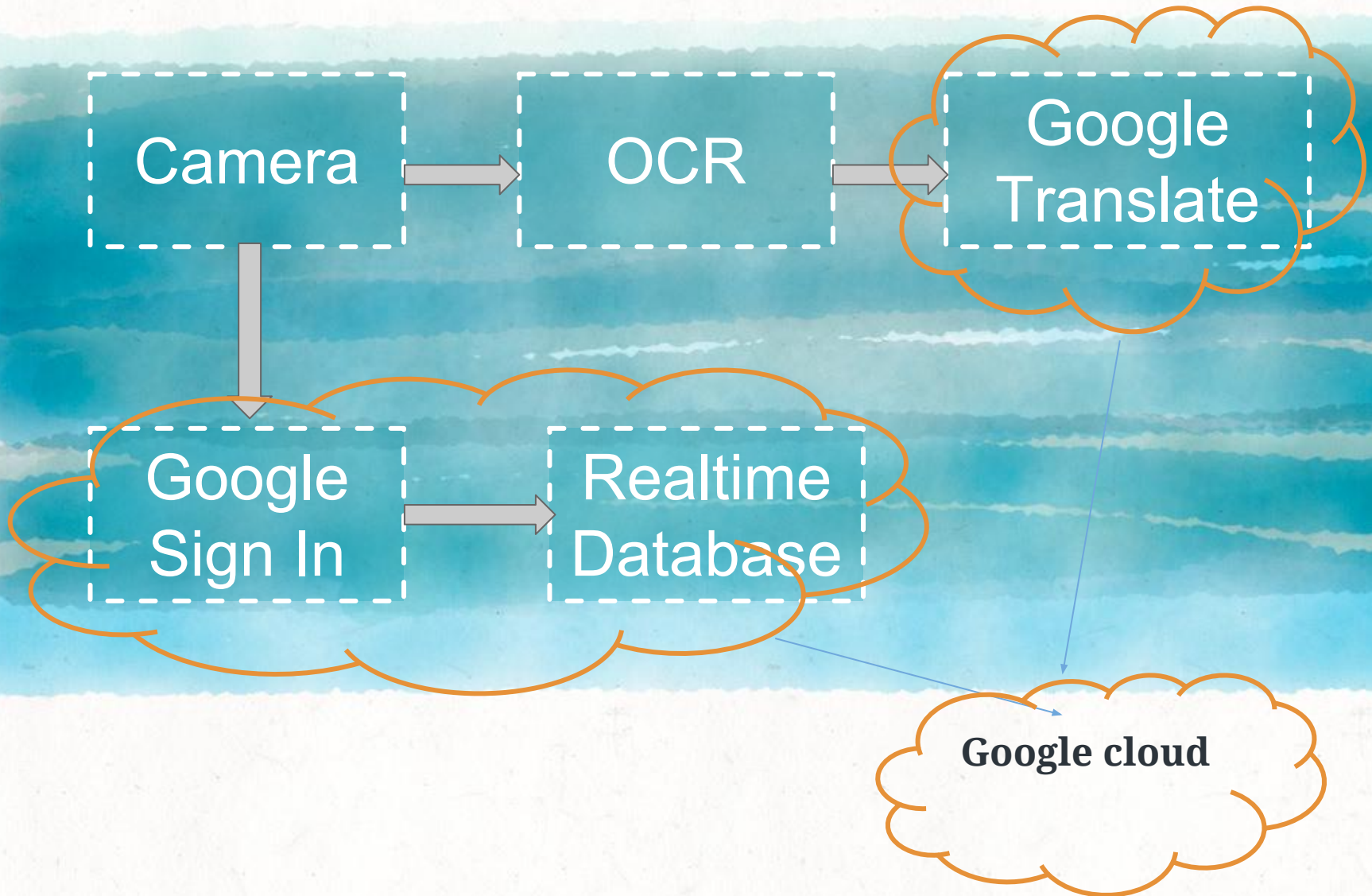


HOW IT WORKS?

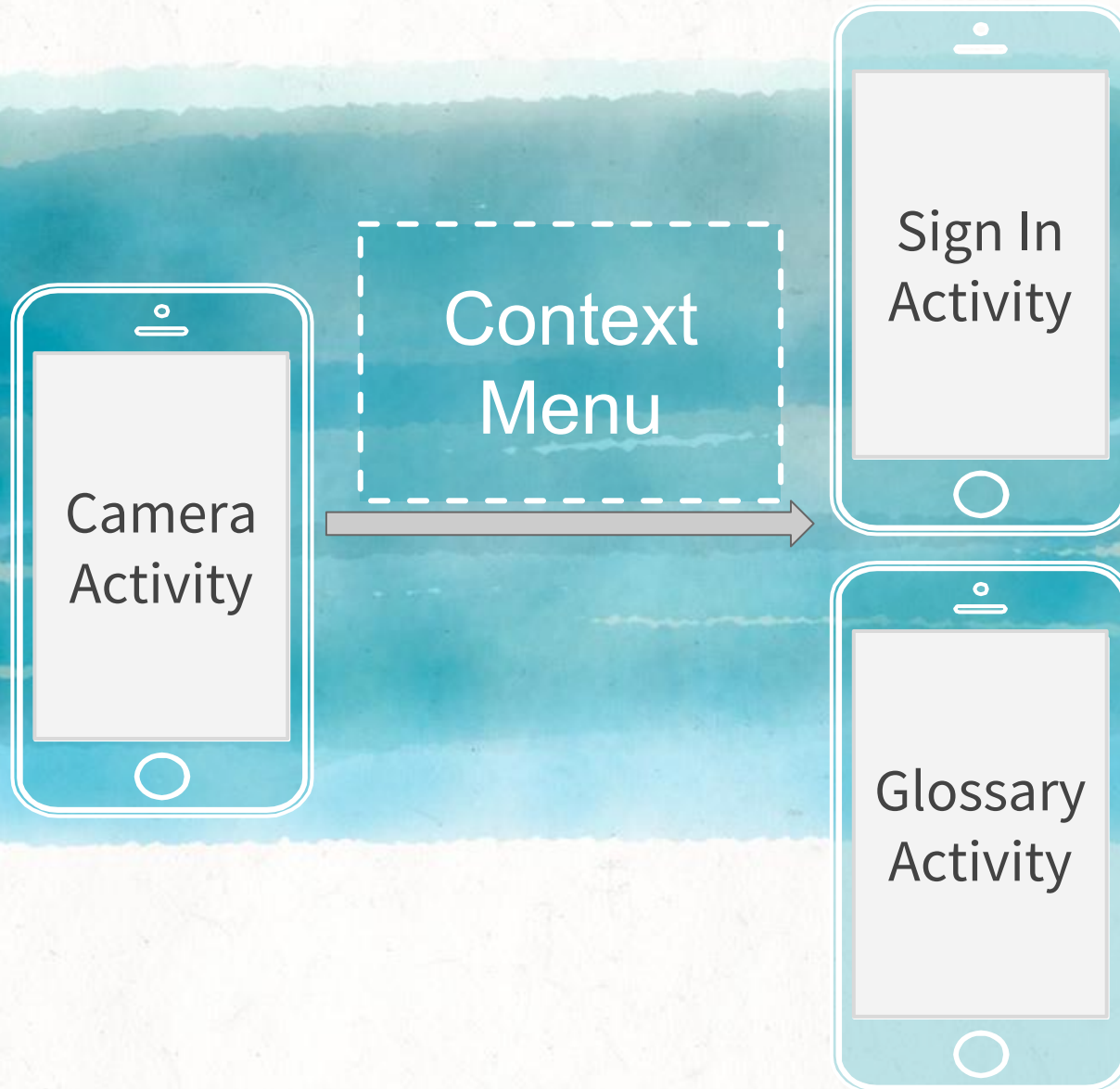
TECHNOLOGY WE USED

- ▶ Android Camera
- ▶ OCR (Optical Character Recognition)
- ▶ Google Translate API
- ▶ Firebase: Authentication, Realtime database
- ▶ Open source library: FirebaseUI

LOGIC FLOWCHART



UI FLOWCHART





BoundingBox

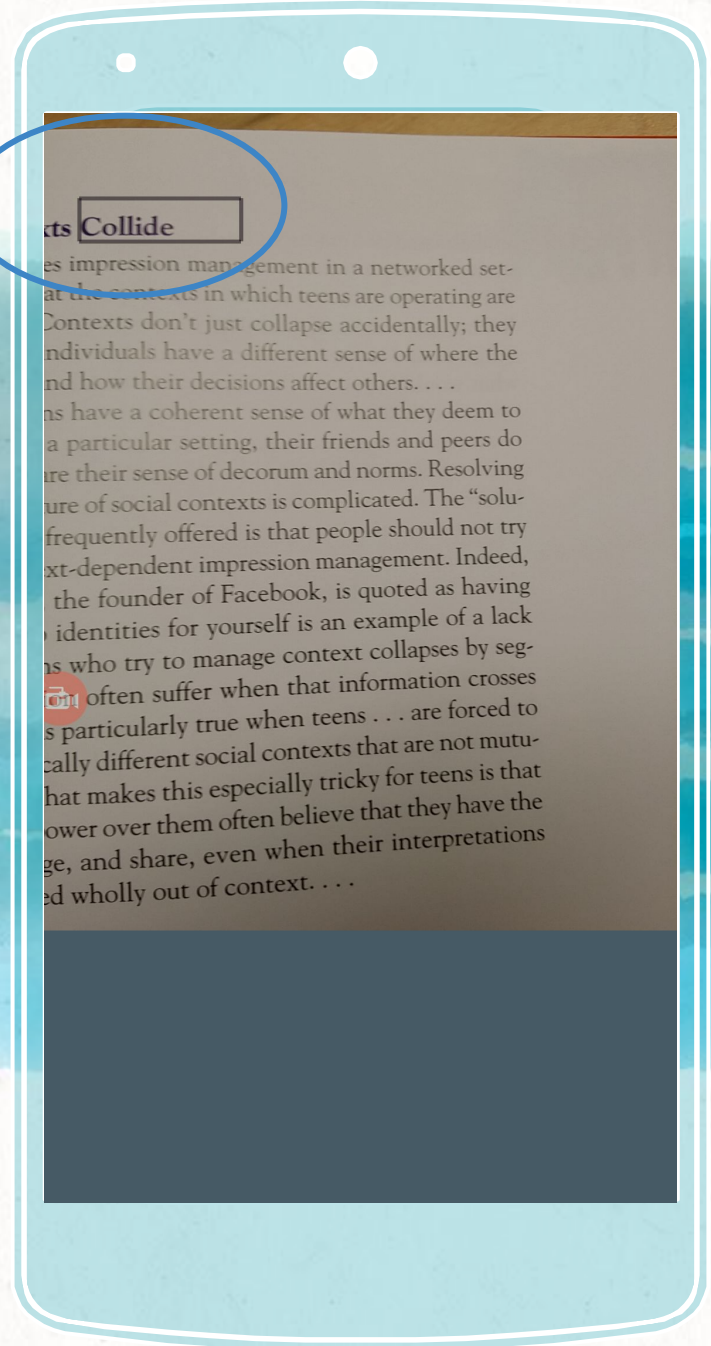
START SCREEN

Bounding box

View - TouchView

TextureView-camera

ImageButton



BoundingBox

PRESS BUTTON

Text Recognition Result

Translated Result

Media

Button+TextView+ImageView

Contexts Collide

Contexts don't just collapse accidentally; they
individuals have a different sense of where the
and how their decisions affect others. . . .
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Struggles for Online Identities

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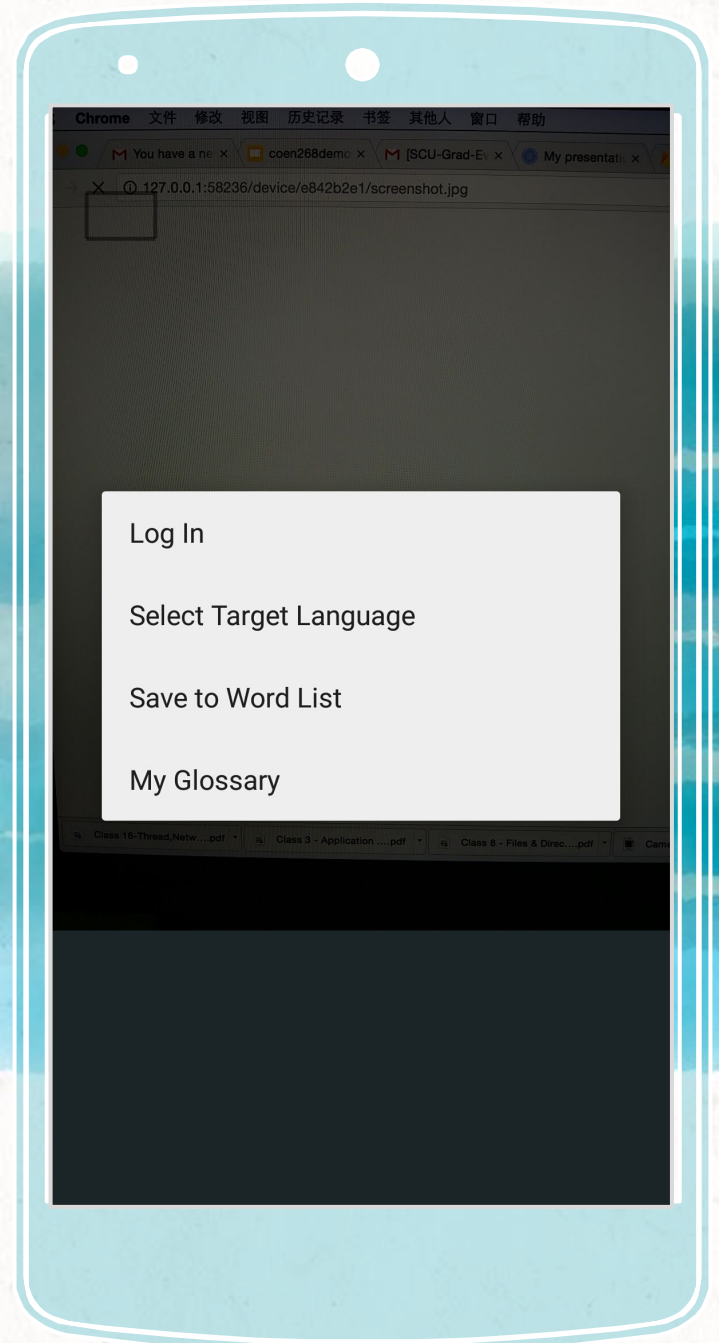
collide
碰撞



TOUCH SCREEN

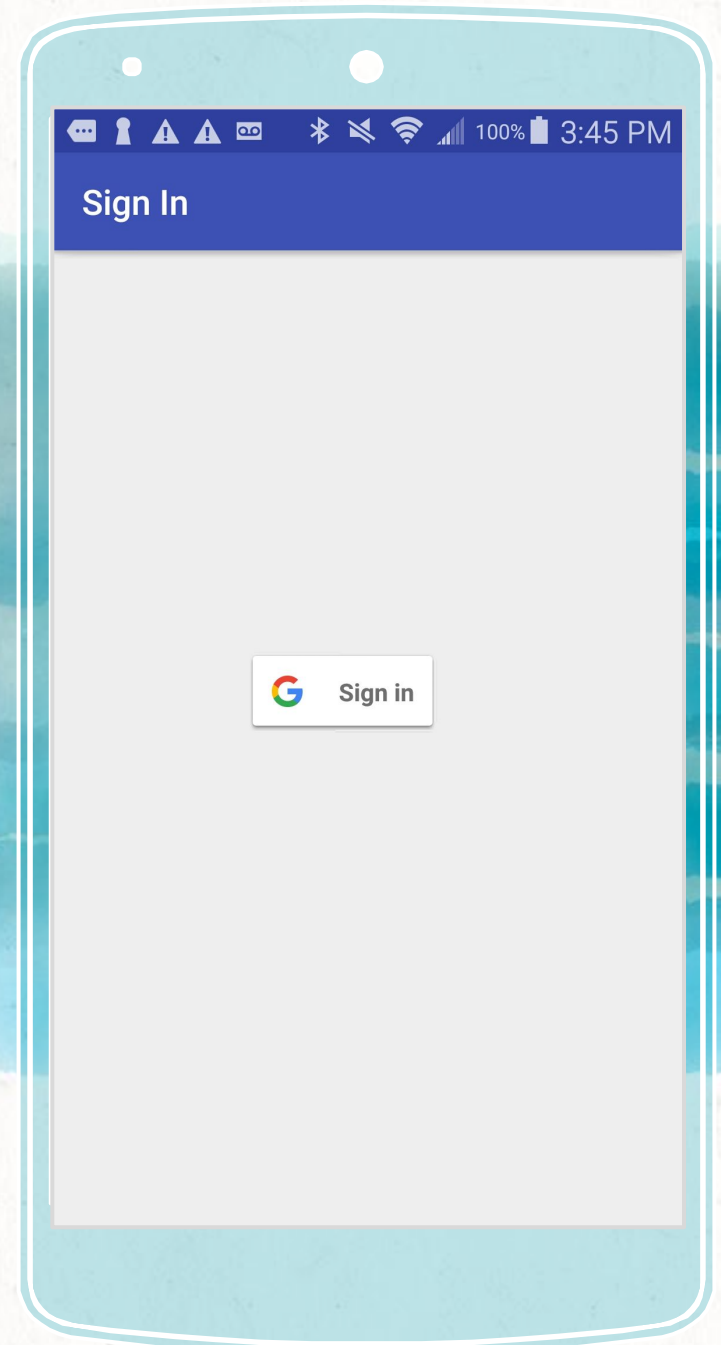
Context menu

Submenu



LOGIN

Connect to google sign in



SAVE WORD

Firestore realtime database:

JSON

Synchronized in realtime

Contexts Collide

... makes impression management in a networked setting that the contexts in which teens are operating are not just collapse accidentally; they are different individuals have a different sense of where the line is and how their decisions affect others. . . .

Teens have a coherent sense of what they deem to be appropriate in a particular setting, their friends and peers do share their sense of decorum and norms. Resolving the conflicting nature of social contexts is complicated. The "solution" most frequently offered is that people should not try to manage context-dependent impression management. Indeed, Mark Zuckerberg, the founder of Facebook, is quoted as having said that having two identities for yourself is an example of a lack of social maturity. Teens who try to manage context collapses by segmentation often suffer when that information crosses boundaries. This is particularly true when teens . . . are forced to navigate radically different social contexts that are not mutually exclusive. What makes this especially tricky for teens is that they have power over them often believe that they have the power to judge, and share, even when their interpretations are constructed wholly out of context. . . .

Unique Struggles for Online Identities

It is important to note that the same shaming tactics that adults use to get teens to conform to adult standards are also used by adults to ostracize and punish youth whose identities and experiences are not widely accepted. I met plenty of teens who kept secrets from their parents or teachers, and who faced challenges of col-

collide

碰撞

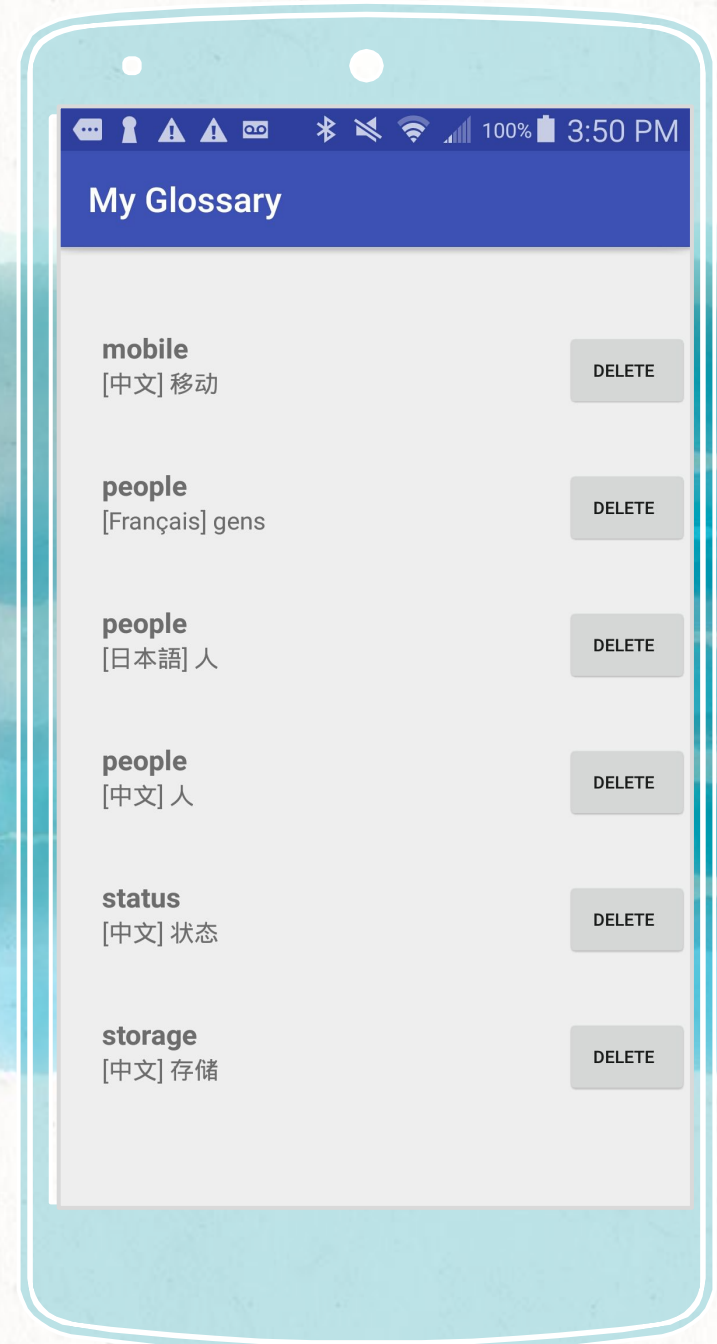
Save successfully

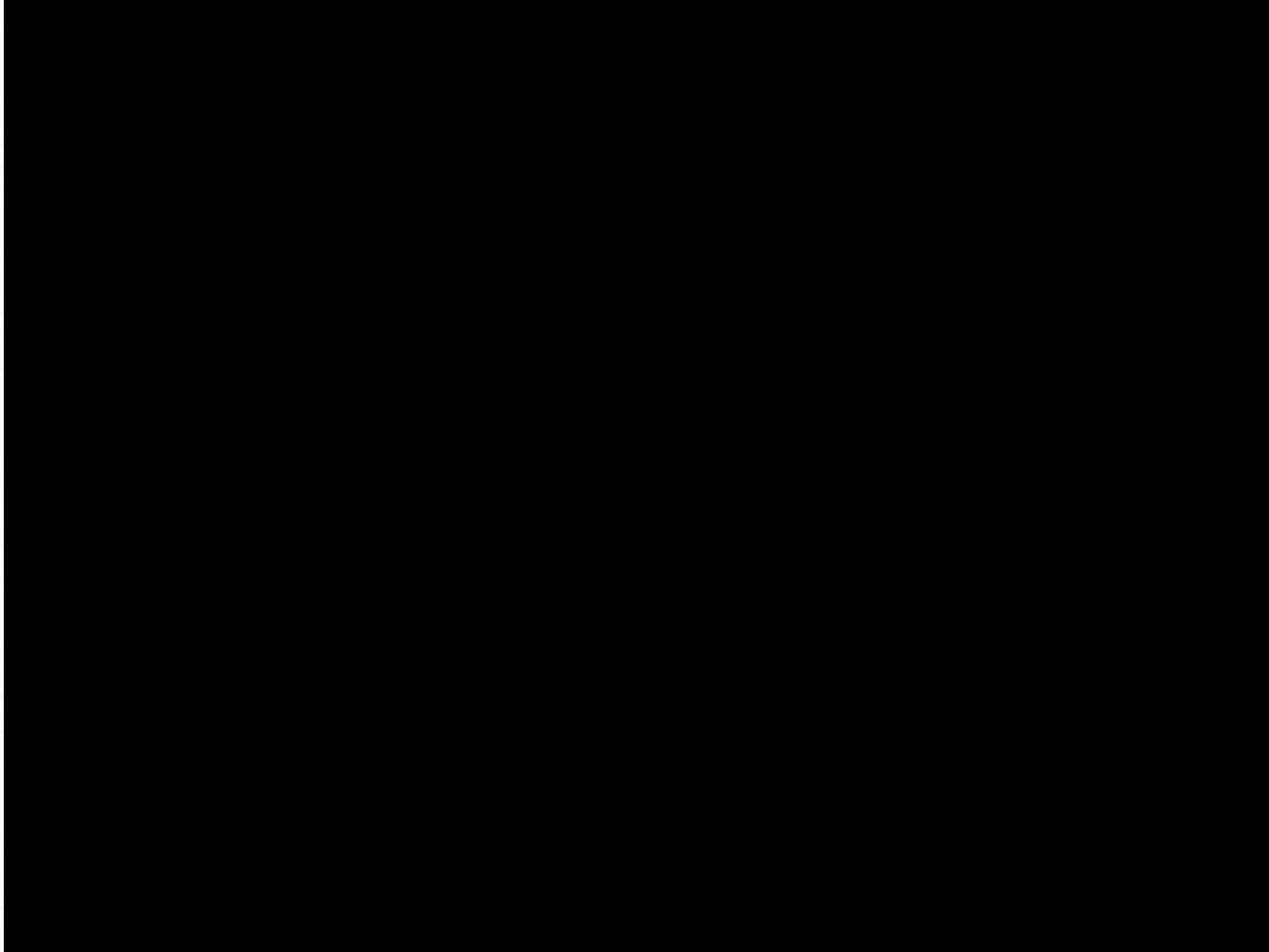
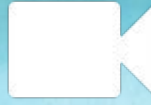


GLOSSARY

RecyclerView

FirestoreRecyclerAdapter (Open
source library FirebaseUI)





CONCLUSION



- Understand how to develop an Android App
- How to integrate Google API in App
- Integrate cloud-computing
- Database
- Mutli-thread



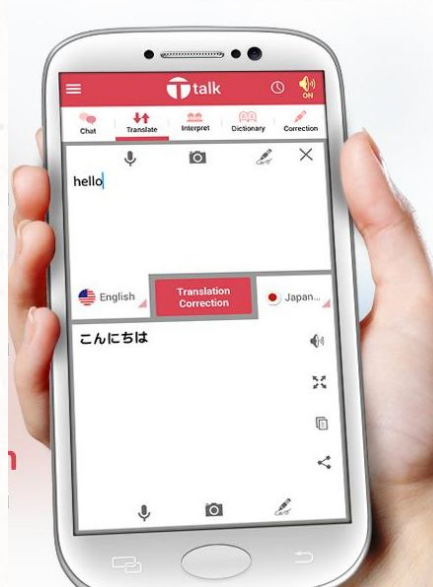
<https://github.com/willayang/COEN268PROJECT/tree/master/app>

FUTURE WORK

SPEECH RECOGNITION



HAND WRITING



OCR-MORE LANGUAGE





DEMO

THANKS!



**any
questions
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