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Remember me

Description

This app helps users expand their vocabulary in a foreign language. The main use case is this: the user reads a text in a foreign language in a web browser or another app that has a Share button. He finds a word that he does not know. He can select the word and share it with the *Remember me* app. The app offers a convenient way to translate this word into the user's native language (using an online translation service like Google Translate), and the user can save the

word in a *vocabulary box*. The purpose of this box is to learn and repeat the new word several times in growing time intervals until the new word has entered the user's long term memory. The vocabulary box contains five compartments. New words start in compartment 1. Whenever the user remembers a word correctly, the word moves into the next compartment. If the user does not remember the word, it goes back into compartment 1.

Intended User

The intended user is a person who reads texts on his mobile phone or tablet in a foreign language and wants to expand his vocabulary.

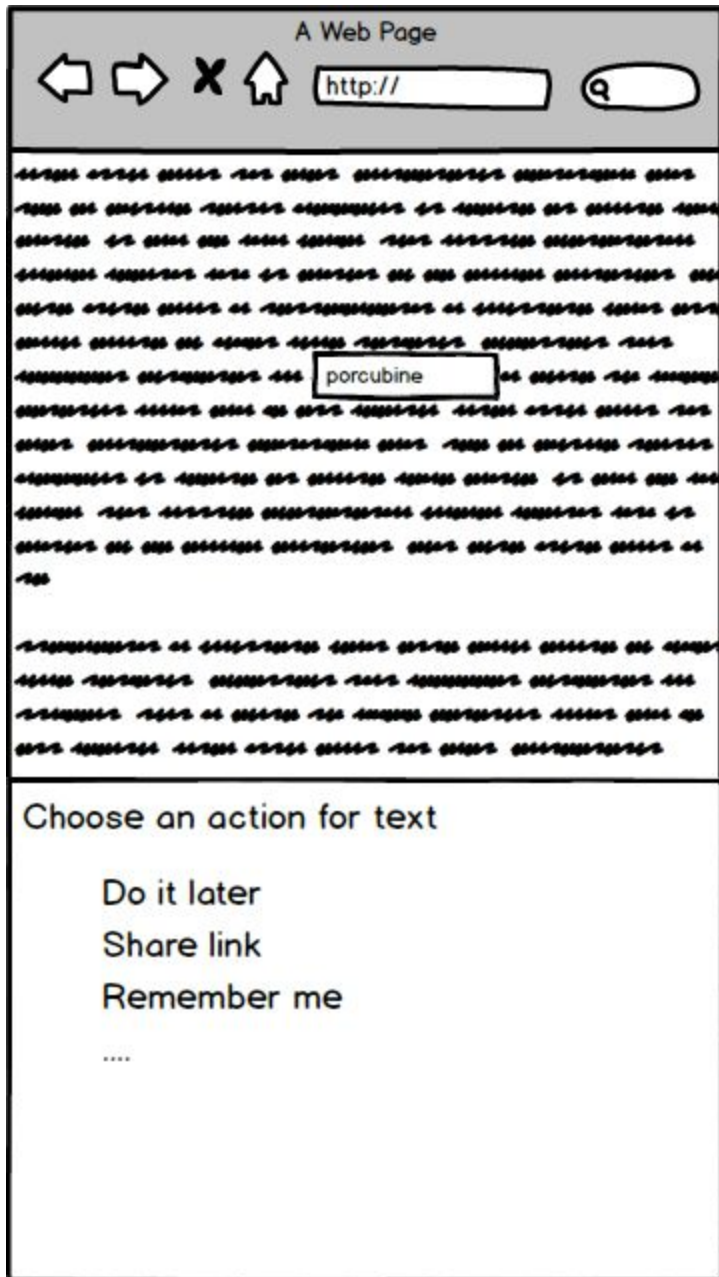
Features

- Is accessible from other apps that contain a Share button
- Looks up the user's language settings
- Suggests translations of words using an online translation service like Google Translate
- Contains a virtual *vocabulary box* with five compartments where translations can be stored, memorized, and repeated

User Interface Mocks

In the following UI mocks we assume that the user's native language is German and that he wants to improve his vocabulary in English.

Screen 1: share unknown word from another app



Share unknown word from an app that contains a Share button (e.g. a web browser).

Screen 2: Suggest translation

≡ Save translation


porcupine

Stachelschwein

Cancel Save

The app suggests a translation from Google Translate. The user can save the suggestion to his vocabulary box.

Screen 2a: Edit the suggested translation



 Save translation


porcupine

Stachelschwein

q w e r t y u i o p

a s d f g h j k l

 z x c v b n m 

.?123 , space . 

Alternatively, the user can edit the suggested translation before saving the word.

Screen 2b: Add a word manually

☰ Add word

porcupine

Translate

Cancel Save

It is also possible to add a word manually (instead of sharing it from another app). In this case, the user can get a translation by clicking the Translate button.

Screen 3: Vocabulary box (MainActivity)

≡

Vocabulary box

+

Current box

English

Rename box

Foreign language

English

Native language

German

Translation direction

Mixed

Compartment	Words	Not repeated since (days)
1	14	0
2	37	2
3	0	2
4	107	16
5	377	-

Memorize words from compartment 1

creates a new box

other options: "Foreign to native" and "Native to foreign"

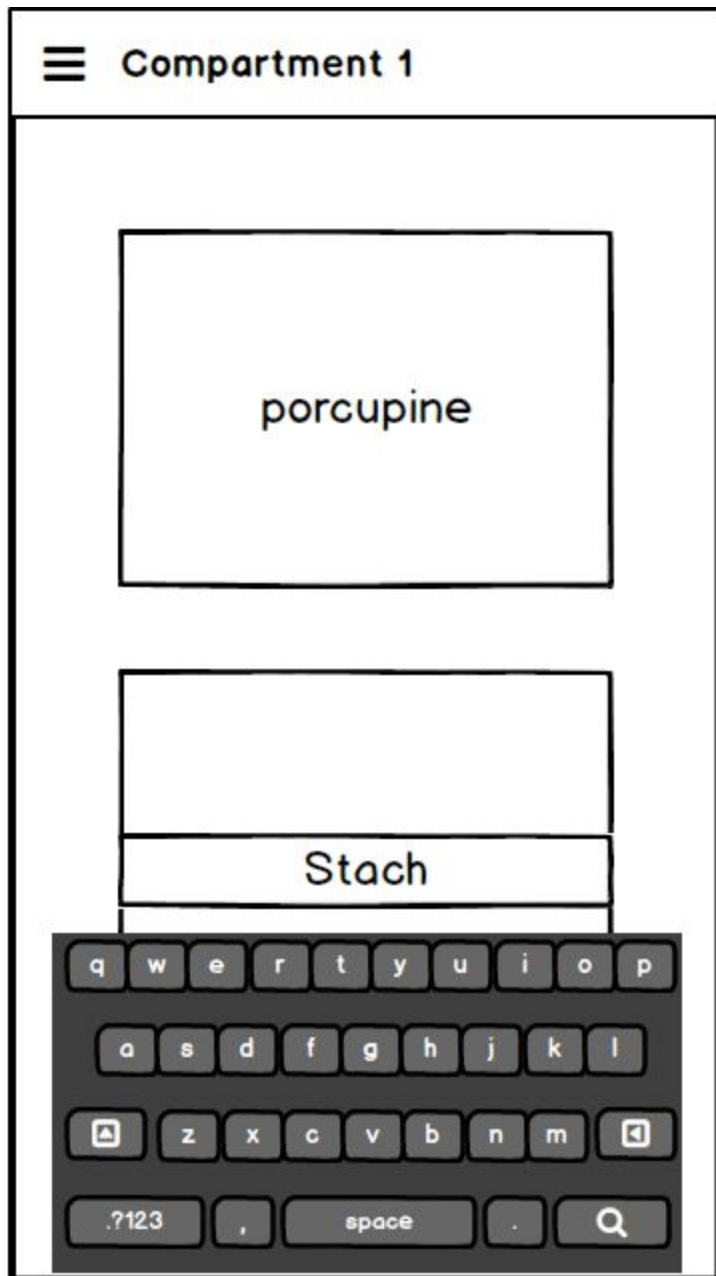
Shows the words in the current vocabulary box. The user can choose to repeat the words from a compartment by selecting the corresponding line. If he presses the button "Memorize words from compartment 1", he gets to the following screen.

Screen 4: Memorize words from compartment 1

☰ Memorize	
chatter	Geschwätz
porcupine	Stachelschwein
emissary	Abgesandter
bias	Tendenz, Neigung
ointment	Salbe
◀ 1-5/14 ▶	


Memorize the words from compartment 1.

Screen 5: Test if words from one compartment are known





Test whether the user remembers the new word correctly. The user has to type in the translation.

Screen 5a: Show the correct translation

 **Compartment 1**

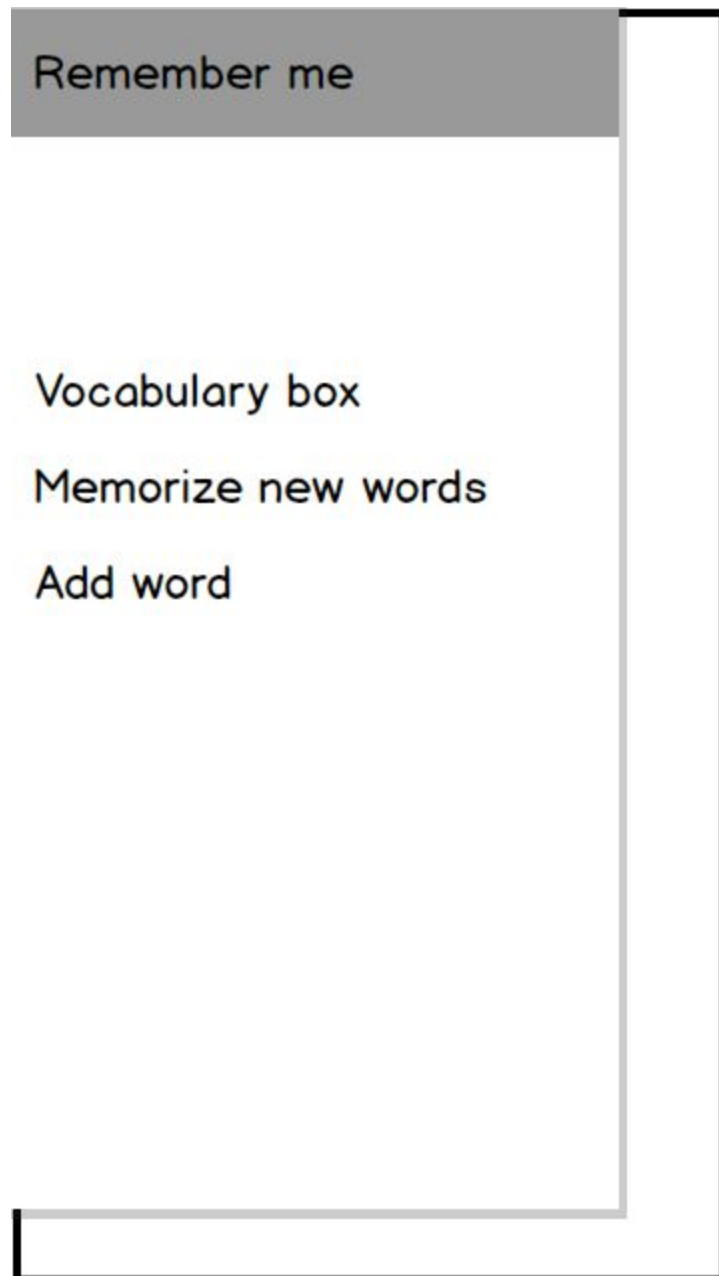
porcupine

Stachelschwein

 11 words left 

Show the solution. If the user entered the correct solution, the word is moved to the next compartment. Otherwise the word is moved back to compartment 1. By clicking the button on the lower right, the user gets to the next word, or back to the vocabulary box if there are no more words left in this compartment.

Screen 6: Navigation drawer



At the moment, a navigation drawer does not seem necessary. But if the app evolves a bit more, it will make sense.

Key Considerations

How will your app handle data persistence?

The translations are stored locally using a content provider.

Describe any corner cases in the UX.

- If the online translation service does not offer an adequate translation of a word, the user can look it up by other means and enter it manually.

Describe any libraries you'll be using and share your reasoning for including them.

- Schematic content provider library (simplifies working with content providers)
- CursorUtils (simplifies working with database cursors)

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

Task 1: Project Setup

- Set up project
- Add libraries
- Define colors and styles

Task 2: Evaluate and set up translation service

- Evaluate Google Translate, Microsoft Translator, others?
- Set up account for development

Task 3: Set up ContentProvider

- Define data structure
 - Vocabulary box
 - Compartment
 - Word
- Set up database

Task 4: Implement vocabulary box

- Vocabulary box (MainActivity)
- Look up user's native language from phone settings

- Handle settings for translation service and languages
- User can create several vocabulary boxes

Task 5: Implement screen for testing if word is known

- Display words from selected compartment, one by one
- Edit functionality
- Compare user input with correct solution

Task 6: Implement “Add word” functionality

- Implement Share action (word that is selected in another app is shared)
- Call translation service
- Handle problems:
 - Non internet connection
 - Word not found
 - User doesn't like suggested translation
- Implement manual edit of original word and suggested solution

Task 7: Implement “Memorize” functionality

- Show words from compartment 1
- User can browse through the list

Task 8: Implement navigation drawer (if needed)

- Use a rough version of the navigation drawer while implementing tasks 1-7
- Then decide whether a navigation drawer makes sense