Project features

Baseline	Yes/No	Extra features
Random quiz	Yes	Single choice questions generated randomly. Answer generated to be close to the correct answer. After answering, the correct answer is shown to the user.
Statistics	Yes	Shows number of pass and fails for each question.
Browsing with recycler view	Yes	High quality vocabulary with 105 000 words (up to 270 000) including slangs and professional vocabulary. Links to Wiktionary and Babla for each word (for Wiktionary all links should exist, Babla may have only some words but when it does, it has many example sentences).
JSON loading	Yes	Large JSON file made by conversion and simplification of different JSON. Submitted code links to JSON with only 200 words for speed reason.
Unit test	Yes	Model and singletons have 100% coverage
Comments	Yes	I hope that you find them clear. All files have been commented. Code is auto indented. Naming follows naming conventions https://kotlinlang.org/docs/reference/coding-conventions.html
UX	Yes	The goal was to make simple, nondisturbing design with some soul in it. Intuitiveness was improved based on user feedback. Optimisation for different screen sizes and views remains to be done.
Other		Not just a word app. Good basic concept for real life learning for non-beginners. High-quality content.
Extra functionality/tools used		Media Player, Singletons, Shared preferences, MVVM, Live data

Thank you for all you help and support

during the course ☺

USER STORY

Natasha came to Finland from Russia in 2010 to study on University, Umut came from Turkey in 2014 to work for Nokia and Ebba was born in Ahvenanmaa and now works in Helsinki.

Neither of them needs Finnish language at work or school but they all would like to learn it to understand and contribute better to the society they live in. They all took multiple courses but all they learned were basic words and grammar. Beside of the level of Finnish courses, time is now a big constrain, as they all have their work and family lives.

Learn the language, not just the words
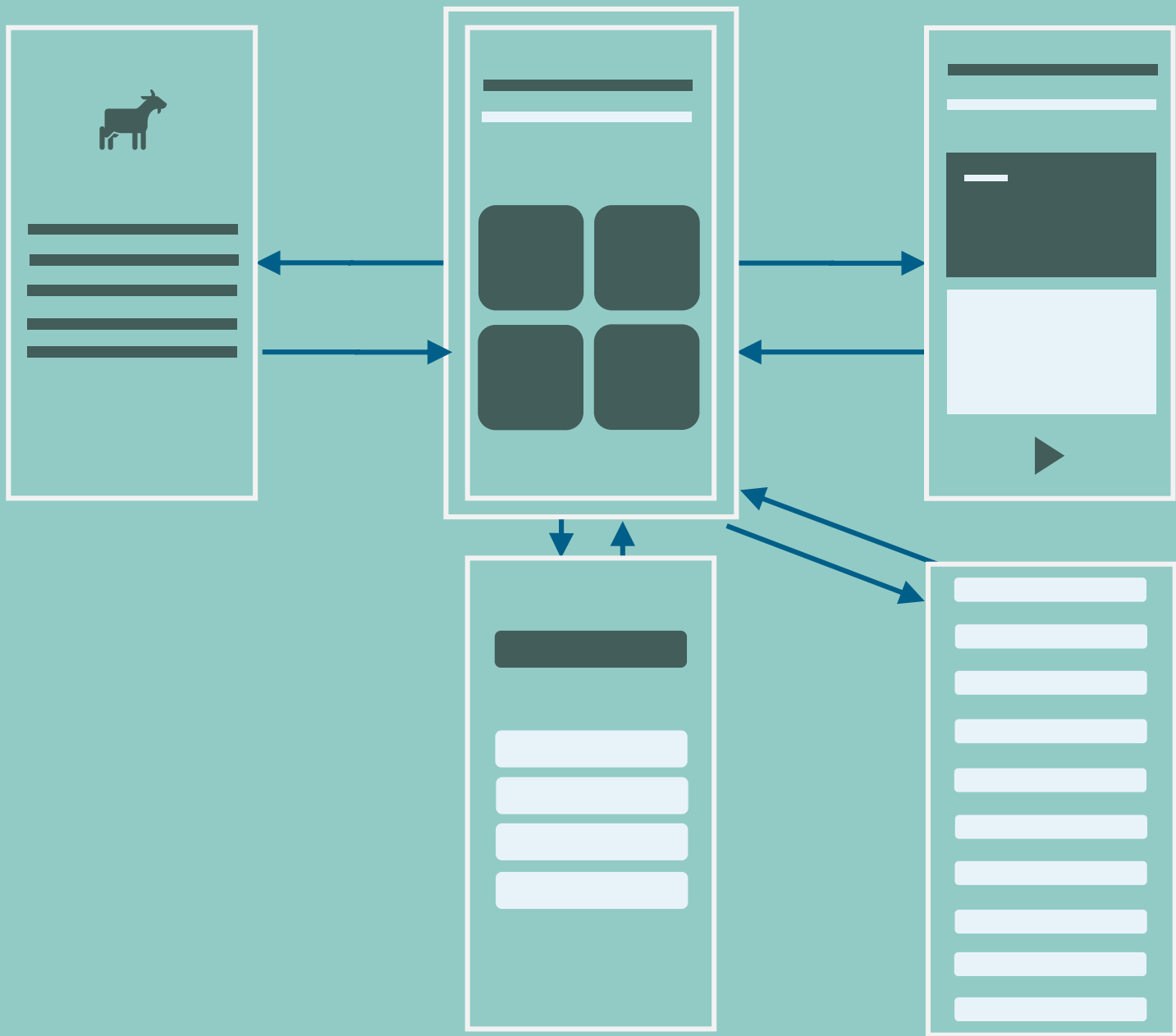
Integrate to the Finnish society

Simple, non-disturbing design

Focus on learning, not gaming

Fingularium

Listen, read, speak, repeat...

Panel 1

Fingularium

Listen, read, speak, repeat...

- Uudenvuodenpuhe
- Maamme
- Kalevala 1
- Kalevala 18
- Kalevala kilpalaulanta

11:07

Panel 2

1:51

Kalevaala Runo 18 Väinämöinen and Ilmarinen - Suomen ja Karjalan tasavallan kansalliseepos (Elias Lönnrotin)

Kalevala Rune 18 Väinämöinen ja Ilmarinen - national epic of Karelia and Finland (Elias Lönnrotin)

Listen   Read

Quiz   Vocabulary

Panel 3

1:52

KALEVALA 18

Vaka vanha Väinämöinen
arveli, ajattelihe
mennä neittä kosjomahan,
päätä kassa katsomahan
pimeästä Pohjolasta,
summasta Sariolasta,
Pohjan kuulua tytärtä,
Pohjan mointa morsianta.

Pani haahen haljakkahan,
punaisehen pursipuolen,
kokat kullalla kuvasi.

Väinämöinen, old and steadfast,
Pondered deeply and reflected
How he best should woo the maiden,
Hasten to the long-haired maiden,
In the gloomy land of Pohja,
Sariola, for ever misty,
She the far-famed Maid of Pohja,
She the peerless Bride of Pohja.
There the pale-grey boat was lying,
And the boat with red he painted,
And adorned the prow with gilding.

03:13   6:12

Screen 1

early morning

◉ aamuvarhain
◯ aamuihminen
◯ aamuvarhaisella
◯ aamuvarhainen

OK

Wrong
Correct answer was: aamukaksitoista

STATISTICS

Screen 2

Quiz results

(rare) 12 p.m. (midday)		
aamuvarhainen early morning	Passes 0	Fails 1
aamunkoi dawn, sunrise, break of day	Passes 0	Fails 1
aakkosellisesti alphabetically	Passes 0	Fails 1
aamujumalanpalvelus morning service	Passes 0	Fails 1
aaltoileminen undulation	Passes 0	Fails 1
aamuruoka breakfast	Passes 0	Fails 1
aamiaisaika breakfast time	Passes 0	Fails 1
aamukuusi 6 a.m.	Passes 0	Fails 1
aamu-uninen sleepy in the mornings	Passes 0	Fails 1

Screen 3

Babla: https://en.bab.la/dictionary/finnish-english/ääkkönen

aakkosellinen
alphabetical
Wiki: https://en.wiktionary.org/wiki/aakkosellinen#Finnish
Babla: https://en.bab.la/dictionary/finnish-english/aakkosellinen

aakkosellisesti
alphabetically
Wiki: https://en.wiktionary.org/wiki/aakkosellisesti#Finnish
Babla: https://en.bab.la/dictionary/finnish-english/aakkosellisesti

aakkosellisuus
the quality of being in alphabetical order
Wiki: https://en.wiktionary.org/wiki/aakkosellisuus#Finnish
Babla: https://en.bab.la/dictionary/finnish-english/aakkosellisuus

aakkoshakemisto
alphabetical index
Wiki: https://en.wiktionary.org/wiki/aakkoshakemisto#Finnish
Babla: https://en.bab.la/dictionary/finnish-english/aakkoshakemisto
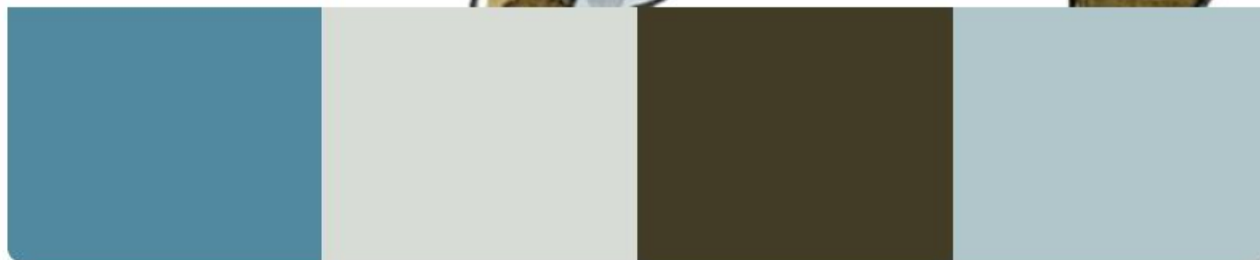
WHAT HAS BEEN DONE:

- app that helps in memorising words in a foreign language ♥
- app has a vocabulary from a language to another ♥
- word quizzes ♥
- results of quizzes are presented to the user ♥
- statistic of user results is kept in the application ♥
- app must use class Word from Kotlin OOP exercise set for storing the words internally ♥
- app allows the user to browse the words (using a RecyclerView) ♥
- vocabulary must be loaded from a JSON file stored in your Metropolia web site ♥
- Code is readable and reasonably commented ♥
- UX is demonstrably taken into account in the app ♥
- Some of the classes have some unit tests ♥

- LiveData ♥
- MVVM ♥
- Media Player ♥
- Singleton♥
- Shared preferences ♥
- ~~Use Room for stats and data~~

- ~~Quiz is of question - free-form answer type / multiple choice~~
- Quiz words have optional links to external (for example Wikipedia) ♥
- Quiz is customized to a specific user group ♥
- High quality content – Authentic Finnish texts with high quality translations and audio + 105 000 words dictionary ♥

- good unit test coverage ♥
- delightful user experience ?

WHAT SHALL BE DONE

- Add ROOM
- Move statistics and vocabulary to main menu
- Add main menu
- Add read functionality under current quiz button
- Add speak functionality under current vocabulary
- Optimise the use of vocabulary - e.g. By random sample
- Change activities to fragments where applicable
- Adjust views for different screen sizes
- Change media player to service
- Synchronise FI/EN text views
- Synchronise Media player and seekbar
- Add splash screen with simple description
- Add credits to content owners and sponsors
- Optimise UI for UX
- Improve z quiz layout to decrease eye movement
- Add switch for EN/FI and FI/EN vocabulary
- Increase test coverage
- Add search to vocabulary
- Add bookmarks to vocabulary
- Make quiz results persistent
- Allow to sort and order results by pass or fail
- Allow to reset results
- Upload large JSON already in Main

https://convertingcolors.com/rgb-color-146_203_209.html

Wedgewood	Tasman	Birch	Heather
#5089A0	#D7DCD7	#423C27	#B0C6CB