

KAUNAS UNIVERSITY OF TECHNOLOGY

FACULTY OF INFORMATICS

T120B169 App Development for Smart Mobile Systems

*Reciper – cooking book*

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Tables of Contents

[Description of Your app 3](#_Toc52762548)

[Functionality of your app 4](#_Toc52762549)

[List of functions 4](#_Toc52762550)

[Solution 5](#_Toc52762551)

[Task #1. The navigation bar on the bottom of the screen 5](#_Toc52762552)

[Task #2. The New recipe search field 5](#_Toc52762553)

[Task #3. List of user-saved recipes 6](#_Toc52762554)

[Task #4. Recipe detail screen 6](#_Toc52762555)

[Task #5. Button for edit recipe, Task #6. Button for recipe share 7](#_Toc52762556)

[Task #7. Unit converter screen 7](#_Toc52762557)

[Task #8. Divide to number of portions 8](#_Toc52762558)

[Reference list 9](#_Toc52762559)

# **Description of Your app**

1. What type is your application/game?

*Application for storing cooking recipes for later and also searching new ones.*

1. Description

*Application brings the user the ability to save his favorite cooking recipes in form of video from YouTube, together with checkable list of ingredients needed, cooking procedure description and his rating. The user can also add his own only-text recipes without the video. Moreover, there is a unit convertor, for quickly recalculate other units of ingredients to user-preferred ones. The data in application are stored in the database and also synchronized between more user devices through the Google Firebase platform.*

*The application consists of 3 main screens – Home, Unit converter, Settings and 2 additional nested screens – Recipe view and Recipe edit view. All of them as implemented as fragments, existing inside the same one activity. Searching for new recipe is done as redirecting user to official YouTube application with entered searching query. Once user find the suitable video recipe for desired meal, he can share it to the Reciper application using the standard Android cross-app sharing feature. Then it is saved to the database and showed in the Home screen list.*

# **Functionality of your app**

## **List of functions**

1. The navigation bar on the bottom of the screen – switching between main fragments.
2. The New recipe search field on top of the Home screen – redirects user to YouTube app with entered search query, when clicked.
3. List of user-saved recipes together with a given rating – opens recipe when clicked on.
4. Recipe detail screen – View containing from recipe review, embedded YouTube video player, list of ingredients and procedure description.
5. Button for edit recipe – allows user to change the recipe.
6. Button for recipe sharing – opens standard Android sharing menu.
7. Unit converter screen – calculator for change different type of units between itself, including metrical, imperial and widely used “kitchen” units. Calculate result to preferred unit immediately after user writes into anyone of available fields.
8. Divide to some number of portions feature – recalculates result from unit change, or just from directly entered preferred unit, to smaller or bigger number of portions than originally listed in recipe.
9. Settings screen – contains the settings to select application language, preferred units for converter, making a cloud backup, restore from cloud, invoke synchronization, etc.

# **Solution**

## **Task #1. The navigation bar on the bottom of the screen**

Graphical user interface, text, application

Description automatically generated

Figure 1. Navigation bar

## **Task #2. The New recipe search field**

Graphical user interface, application

Description automatically generated

Figure 2. New recipe search

## **Task #3. List of user-saved recipes**

Graphical user interface, text, application, chat or text message

Description automatically generated

Figure 3. Home screen

## **Task #4. Recipe detail screen**

Graphical user interface

Description automatically generated

Figure 4. Recipe detail screen

## **Task #5. Button for edit recipe, Task #6. Button for recipe share**

Text

Description automatically generated

Figure 5. Buttons

## **Task #7. Unit converter screen**

Graphical user interface

Description automatically generated

Figure 6. Unit convertor

## **Task #8. Divide to number of portions**

A picture containing box and whisker chart

Description automatically generated

Figure 7. Feature to recalculate amount of ingredients