

AARHUS UNIVERSITET

SMAP

6. SEMESTER

Fridge-i-nator

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1 Introduction

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2 Vision

2.1 App vision

Fridge-i-nator is an app that works together with you and your fridge. It will make it easier for you to make a shopping list and keep track of the items in your fridge especially if you share fridge with others. You can create an essential item list, which is items you never want to run out of. That way if the item comes under a minimum quantity Fridge-i-nator will automatically add that item to your shopping list. Fridge-i-nator will minimize the risk of you forgetting to buy items you need, and make sure you never have to check your fridge before going to the supermarket.

2.2 Personal visions

2.3 Mathias Friss

While building the app, i wish to become better at designing system architecture, with well defined segregation of layers. I wish to create an app with clear seperation between UI and back-end. Furthermore i wish to learn more about using fragments in android.

2.3.1 Stinus Skovgaard

I wish to become a firebase god!

2.3.2 Philip Schmidt

In contrary to no former Android Development and Java experience , i'm striving to become a more experienced developer within the Android scene. This includes a goal of being able to create a great UI experience to the users, managing API calls, maintenance and implementation of databases amongst a lot of other possibilities with the Android Studio tool.

2.3.3 Daniel Tøttrup

Through designing and implementing the fridge-i-nator in this app-project, I want to improve my app design skill. I also want to get familiar with firebase, which we intend to use in this project, and even more familiar with Android studio and the opportunities that comes with this tool. All in all, I want to be a better app developer.

2.4 Rich picture

Below is a rich picture which shows how the Fridge-i-nator app works.

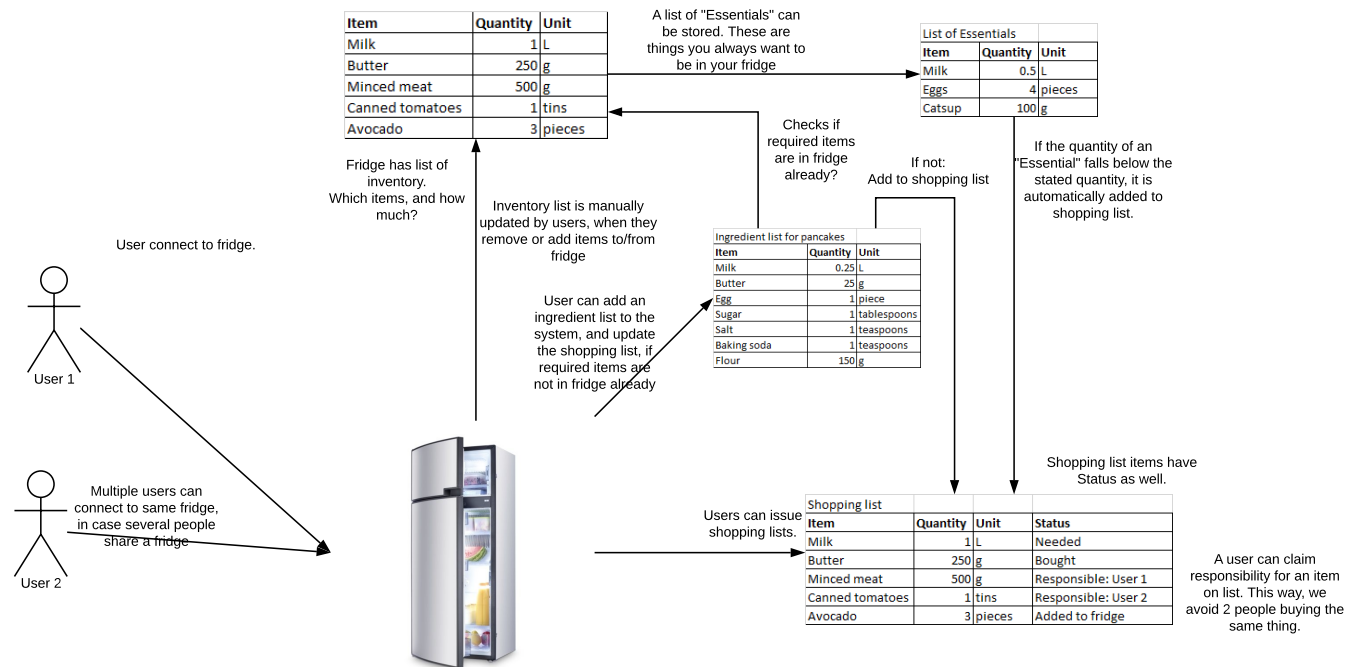


Figure 1: Rich picture of Fridge-i-nator

2.5 User stories

CONNECTION

As a user, I can connect to a create a new fridge, so that i can acces connect to it.

As a user, I can connect to a fridge, so that I can access information about it.

As a user, I can add other people to a fridge I am connected to, so that they can access information about it.

As a user, I can leave a fridge, so that I cannot acces information about it anymore.

INVENTORY As a user, I can acces an inventory list of items which the fridges contain, so all users connected to the fridge can keep track of what is in the fridge.

As a user, I can add items to the inventory list, so that all connected users may know that the item is in the fridge.

SHOPPING LIST As a user, I can acces a shopping list of items, so all users connected

to the fridge can keep track of what needs to be bought for the fridge.

As a user, I can add items to the shopping list, so that all connected users may know that the item needs to be bought.

ESSENTIALS LIST As a user, I can access a list of essential items with a minimum quantity of each item, so when the quantity of a specific item comes below the minimum quantity fridge-i-nator automatically adds the item to the shopping list.

As a user, I can add items to the list of essential items, so that all the system automatically will add the item to the shopping list, if the quantity of the item falls below a specified quantity.

INGREDIENT LIST As a user, I can add an ingredient list of items, so that the system will add missing items to the shopping list.

USING THE SHOPPING/INVENTORY LIST As a user, I can claim responsibility of an item on the shopping list, so that other users will be notified about who has taken responsibility of the given item to avoid double shopping.

As a user, I can move an item from the shopping list to the inventory list, so that all users connected to the fridge will know that the item has been bought.

2.6 Early design

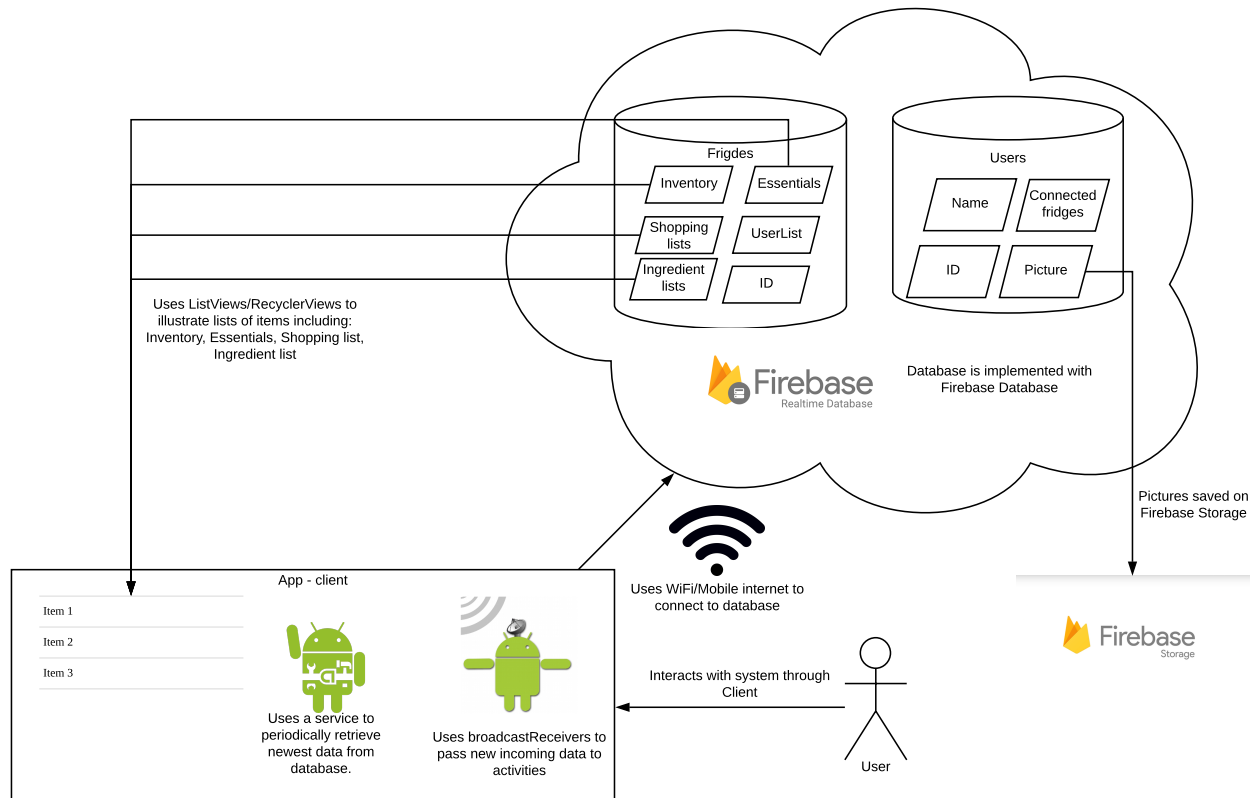


Figure 2: Early design diagram of Fridge-i-nator

2.7 Risks

- Not able to deliver a working app at deadline
- Working with firebase without any prior experience