

AARHUS UNIVERSITET

SMARTPHONE APPLIKATIONER

6. SEMESTER

---

# Fridge-i-nator

---

*Gruppemedlemmer:*

Daniel Tøttrup (Elektro)  
Stinus Skovgaard (Elektro)  
Mathias Friis (Elektro)  
Philip Schmidt (Elektro)

*Studienr:*

201509520  
201401682  
201505665  
201506381



AARHUS  
UNIVERSITY

SCHOOL OF ENGINEERING

4. april 2018

# Indhold

<b>1</b>	<b>App vision</b>	<b>3</b>
<b>2</b>	<b>Personal visions</b>	<b>3</b>
2.1	Mathias Friss . . . . .	3
2.2	Stinus Skovgaard . . . . .	3
2.3	Philip Schmidt . . . . .	3
2.4	Daniel Tøttrup . . . . .	3
<b>3</b>	<b>Rich picture</b>	<b>3</b>
<b>4</b>	<b>User stories</b>	<b>4</b>
<b>5</b>	<b>Early design</b>	<b>6</b>
<b>6</b>	<b>Risks</b>	<b>6</b>

## Figurer

1	Rich picture of Fridge-i-nator . . . . .	4
2	Early design diagram of Fridge-i-nator . . . . .	6

# **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 your 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 Personal visions**

### **2.1 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 separation between UI and back-end. Furthermore i wish to learn more about using fragments in android.

### **2.2 Stinus Skovgaard**

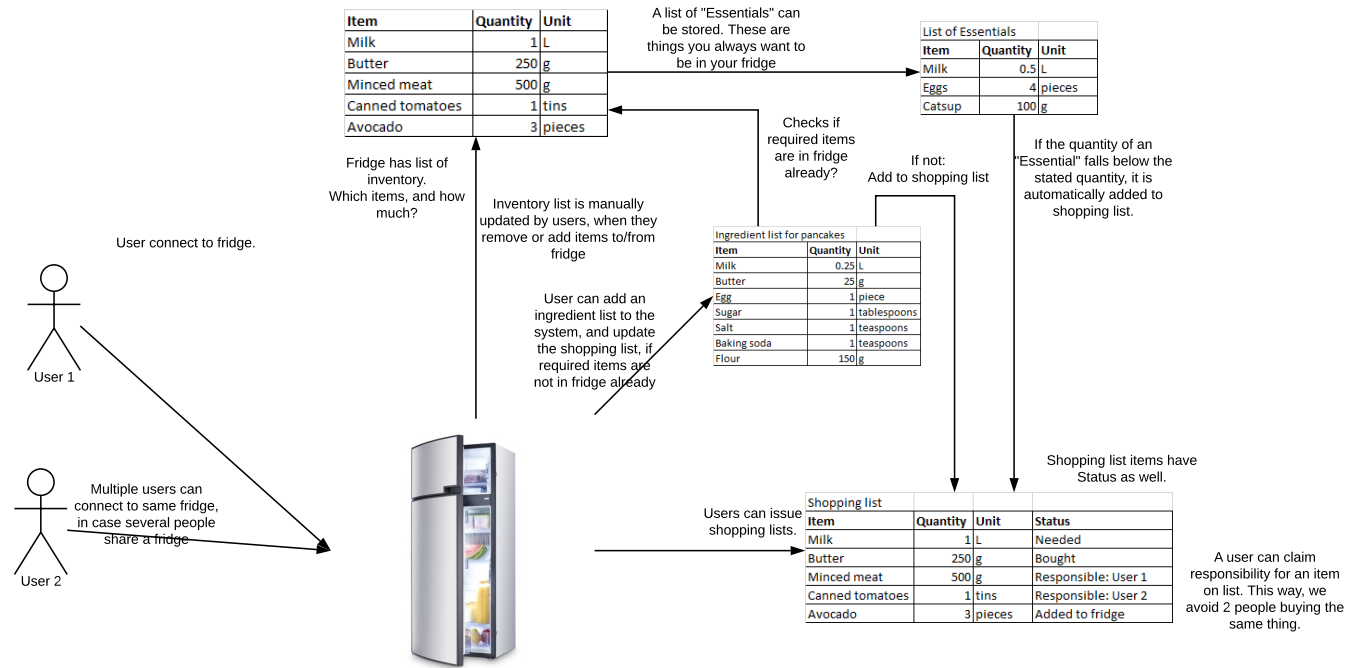
I wish to become a firebase god!

### **2.3 Philip Schmidt**

### **2.4 Daniel Tøttrup**

## **3 Rich picture**

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



Figur 1: Rich picture of Fridge-i-nator

## 4 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 access 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.

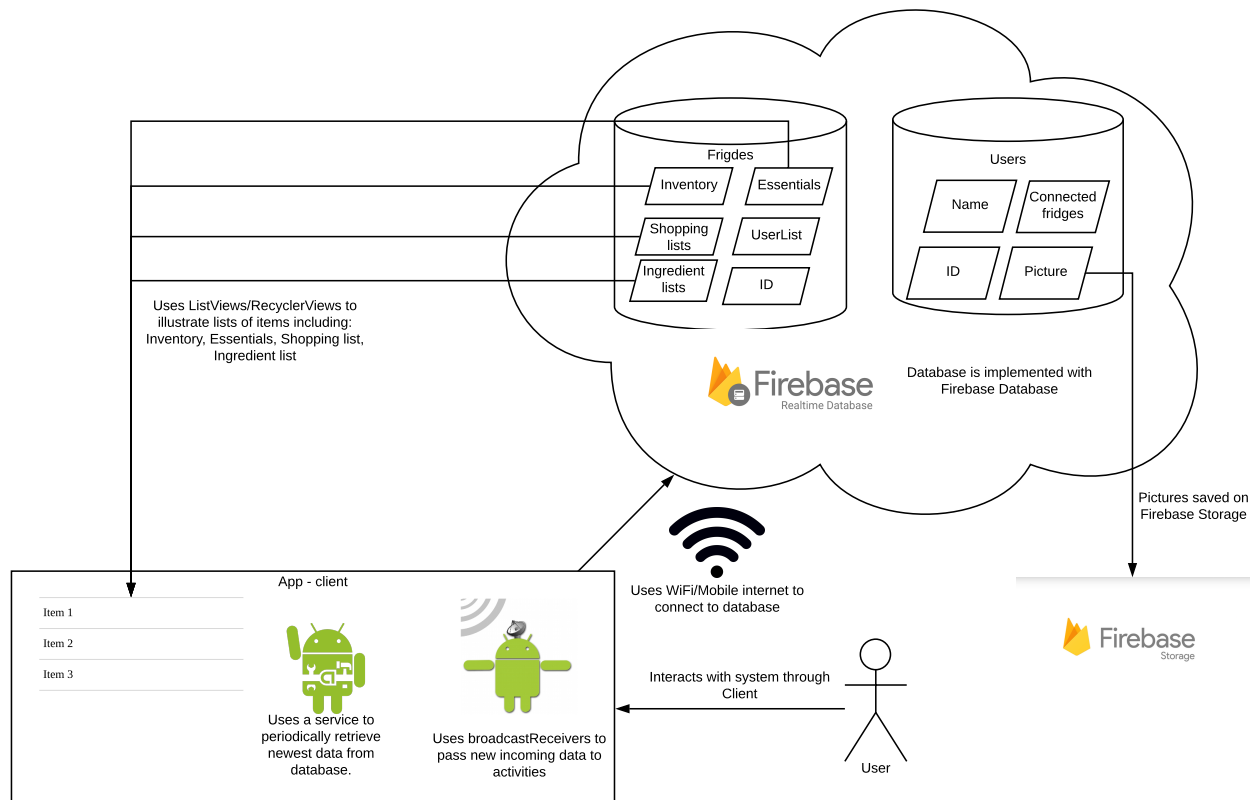
As a user, I can add items to the list of essential items, so that all the system automatically will add the item to the shopping list, if the quantity of the item falls below a specified quantity.

**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.

## 5 Early design



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

## 6 Risks

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