KnittyBuddy

SYNOPSIS - ITMAD Spring 2020

Group #20

Group Members

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Document version: 1.1

- Second draft based on feedback 22/4 - 2021.
  - o Wireframes
  - o Notes and considerations on usage of cloud storage

Document version: 1.0

- First draft 15/4 - 2021

Table of contents

App Vision

The general idea of Strikkemakker is to have a place where you can keep track of everything related to your knitting projects. Strikkemakker provides a platform that can hold all your knitting recipes together with your personal notes. Furthermore, it can help you keep track all your knitting gear as well as your yarn-inventory and help guide you towards future knitting projects.

Personal Vision

As a group we hope that the development of Strikkemakker will give us some insight into what it is like trying to build an app with less restraints than previously. This time we are working on an idea instead of an end-product, and throughout the process we will be pursuing feedback from friends and a like, who could be suitable users of the app, which hopefully can help us shape the best possible app.

Context

Strikkemakker is both a single- and multi-user app. As a single-user app it is used as a collection of a user's recipes and knitting-accessories. Instead of managing a multitude of PDFs and printouts, the modern-day knitter can keep their recipes and notes in Strikkemakker as well measurements of their yarn and a list of their tools.

As a multi-user app Strikkemakker can be used to find inspiration for new knitting projects as well as share your own personal experiences with the whole knitting world!
This is made possible via a list-feed consisting of post from other knitters or hashtags that you follow. You can then also use the 'Find inspiration'-functionality to search through other popular knitters or hashtags.

Strikkemakker only relies on a database that should hold all the info mentioned above.

On the next page Figure 1 shows a rough overview of the interfacing of Strikkemakker. Disclaimer: This image is only for the synopsis and will be reworked in the near future!
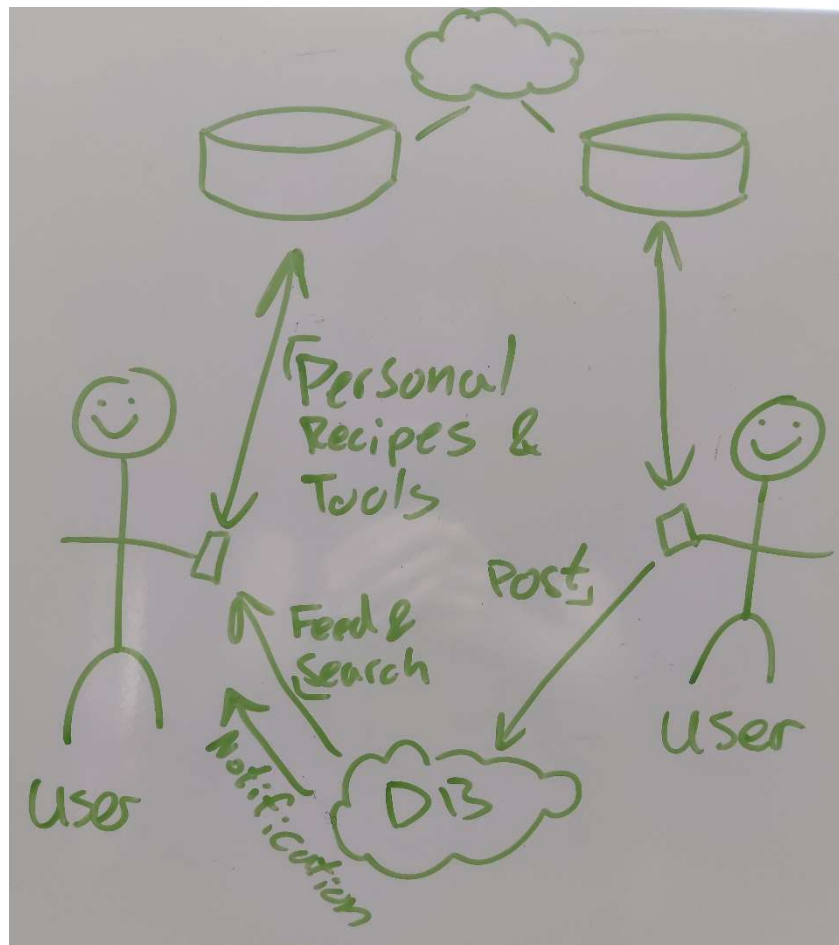
Figure 1 - Rough sketch of two users interaction with the Strikkemakker app.

Requirements

User stories

1. As a <User> I can scroll through a list of my personal knitting recipes, as well as add notes to these.
2. As a <User> I can keep track of my yarn, knitting samples and tools.
3. As a <User> I can scroll through a feed of other peoples posts about knitting projects.
4. As a <User> I can find inspiration by searching or filtering on persons, recipes or popularity, etc.
5. As a <User> I can receive notifications when there is a new post tagged with something I subscribe to.
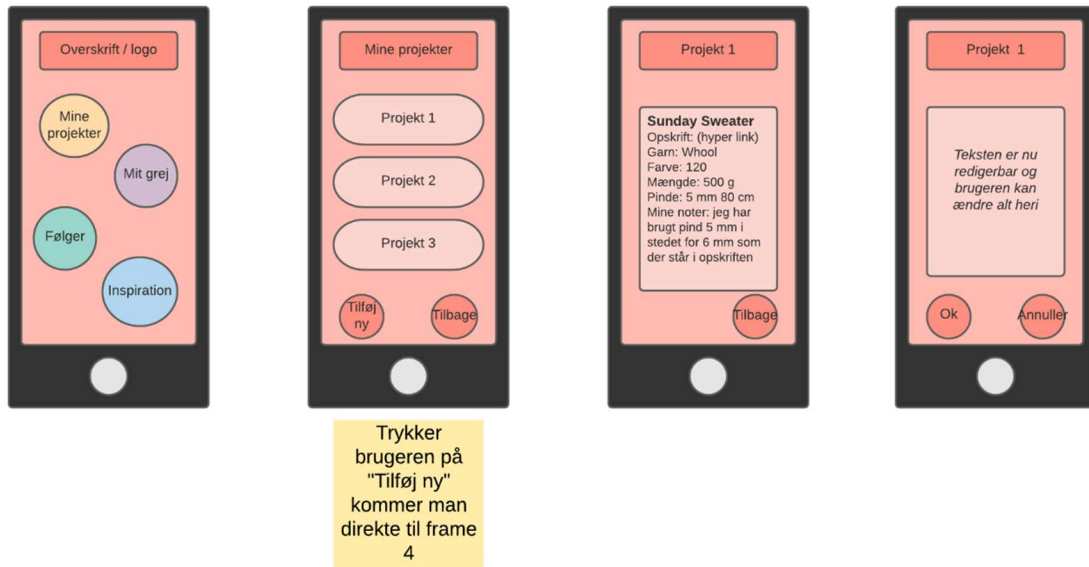
App Design and System Overview

Wireframes

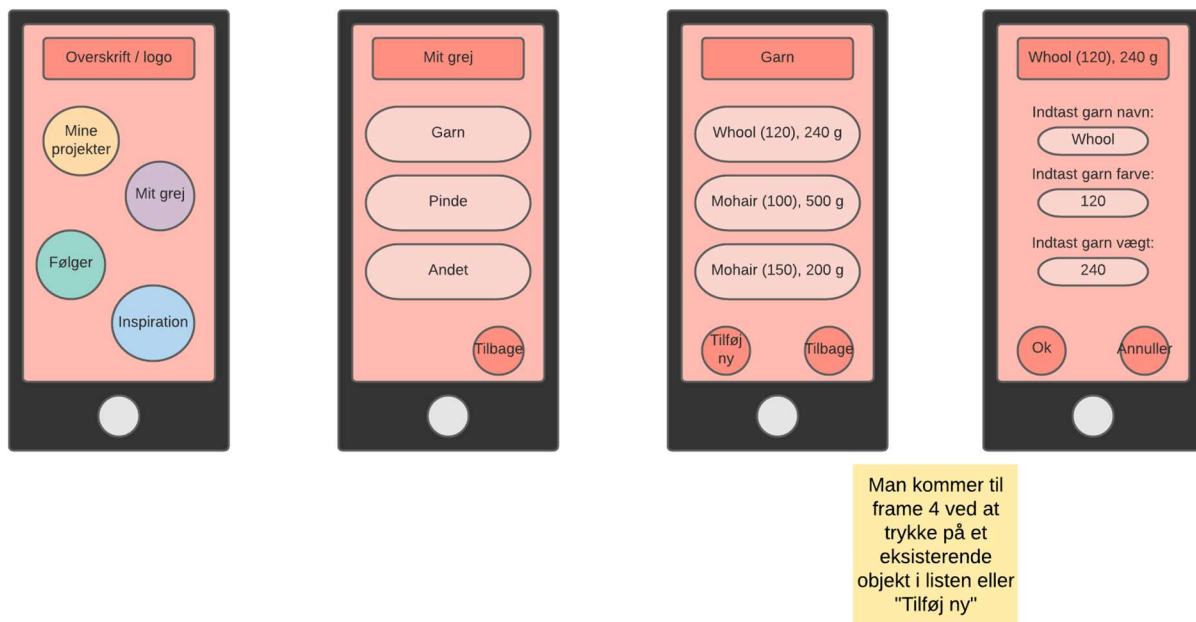*Figure 2 - Wireframe for 'User story nr. 1'.*

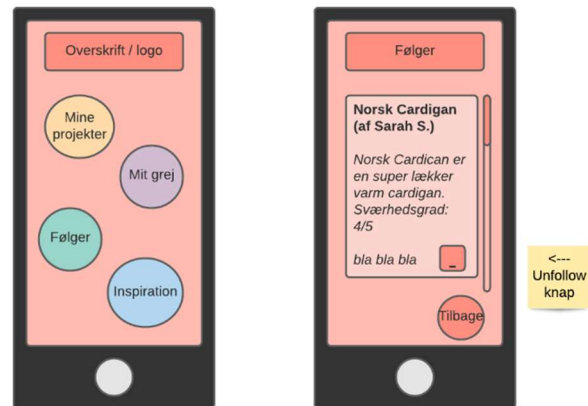*Figure 3 - Wireframe for 'User story nr. 2'.*

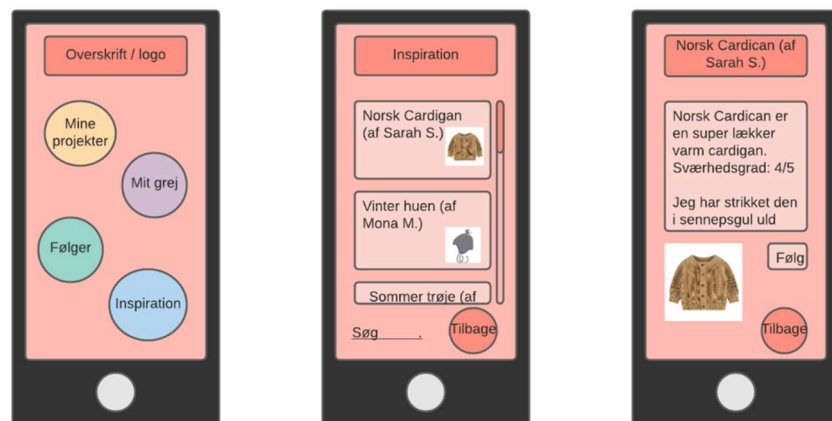*Figure 4 - Wireframe for 'User story nr. 3'.*

Figure 5 - Wireframe for 'User story nr. 4'.

Technical Components

- Activities
- Services
- Fragments
- BroadcastReceivers
- Managers
- Firebase (Firestore, Authentication, CloudStorage)
- Volley
- Glide
- Notifications
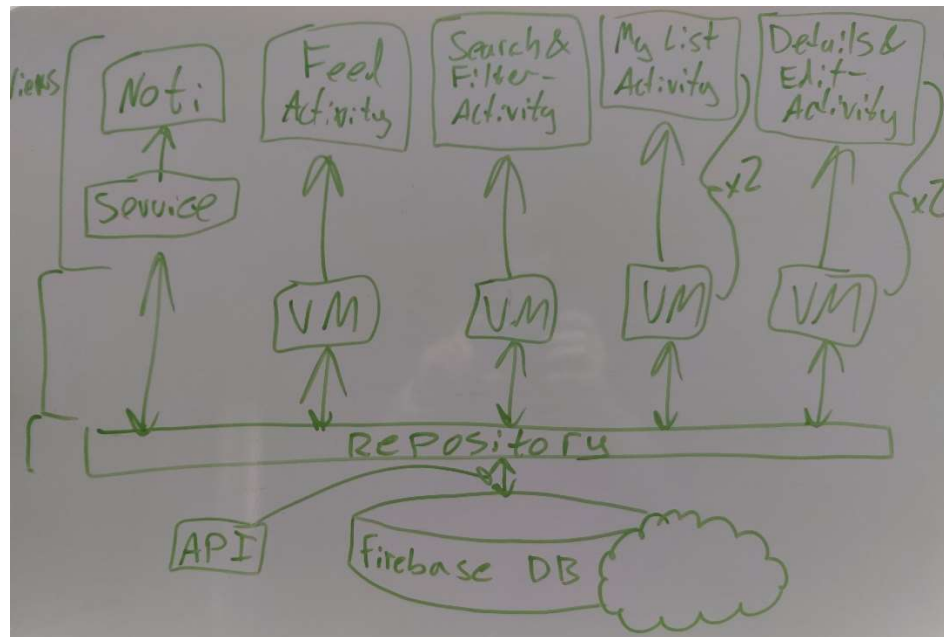- Repository

Architecture overview

Figure 6 - Rough sketch of the components that make up Strikkemakker.

Please note that in the above image, Figure 6, two of the views are shown with a x2. This is because there will be list views of both 'My Recipes' and 'My Tools'. Also, we ran out of space on the whiteboard.

Other considerations

Data such as recipes will most likely be mocked. A knitting recipe is owned only by the person who bought it and can therefore not be shared or looked up directly. A future implementation could see the app develop towards being able to buy recipes or redirect to the sides where they are sold. And from here load them into the personal parts of the app.

In addition to this, knitting recipes are normally bought as PDFs and it would be a nice addition if the app could handle loading in these files.

Since we first need to focus on meeting the technical requirements of the app-project, it is very plausible that not all of the four mayor parts of the app will be completed in full.

Notes:

Pictures to firebase CloudStorage -> save pictures and fetch them via Glide.

PDF -> PDFViewer -> CloudStorage.