

Digital Cookbook

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Team Too Many Cooks

Andrew Chow (Product Owner)

Camden Christopherson

Darian Firestine

Michael Nguyen (1st Scrum Master)

Problem

Lack of a streamlined and simple recipe app with organizational features.

Goals

- Browse recipes stored locally and on a database
- Save recipes on the device and organize them in user created categories
- View related images for each recipe
- Follow recipes with audio narration and/or navigational gestures

Sprint 1

Appetizer

- As a user, I want to be able to pick a category of recipe (3)
- As a user, I want to be able to choose a recipe from the category I picked (2)
- As a user, I want to be able to create a new recipe (2)
- As a user, I want to be able to add new categories (2)

Spikes

- Learning an android graphics or UI library
- Store categories and recipes locally

Infrastructure Tasks

- Setup source control
- Acquire a set of recipes and images for testing

Sprint 2

Soups

Spikes

- Designing an intuitive and clean interface
- Getting working navigational gestures

Infrastructure Tasks

- Setup local storage and finalize framework for displaying data where appropriate
- Increased control over categories

- As a user, I want to be able to see the ingredients and procedure necessary to cook something as well as the nutritional information (5)
- As a user, I want to be able to delete categories and recipes (2)
- As a user, I want to be able to organize the recipes I already have (2)

Sprint 3 - Fish

- As a user, I want to be able to browse for new recipes to add from other people(5)
- As a user, I want to save my favorite recipes (3)

Spikes

- Sending and receiving data from the API
- Managing user's search requests

Infrastructure Tasks

- Setup API interface
- Create basic search capability based on user preferences

Spikes

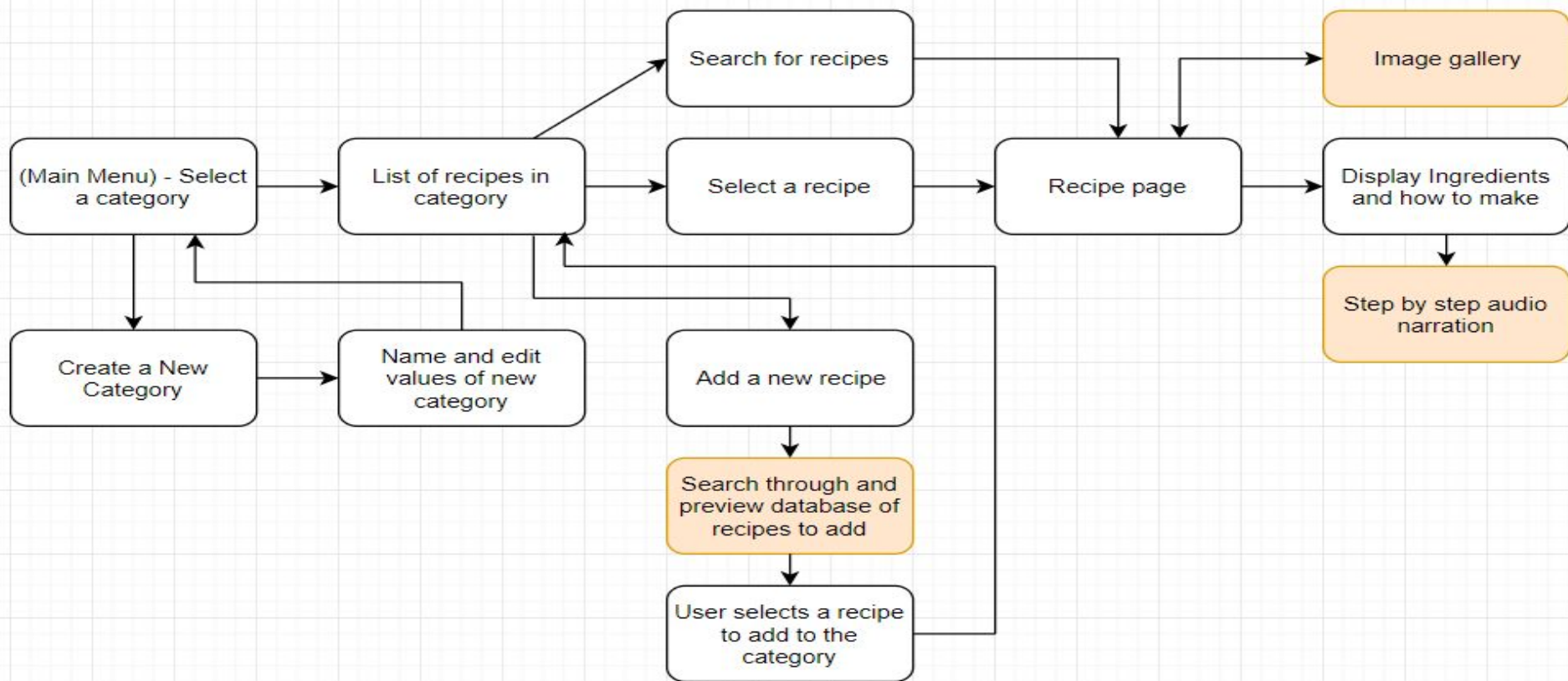
- Create or find a text to speech library

Infrastructure Tasks

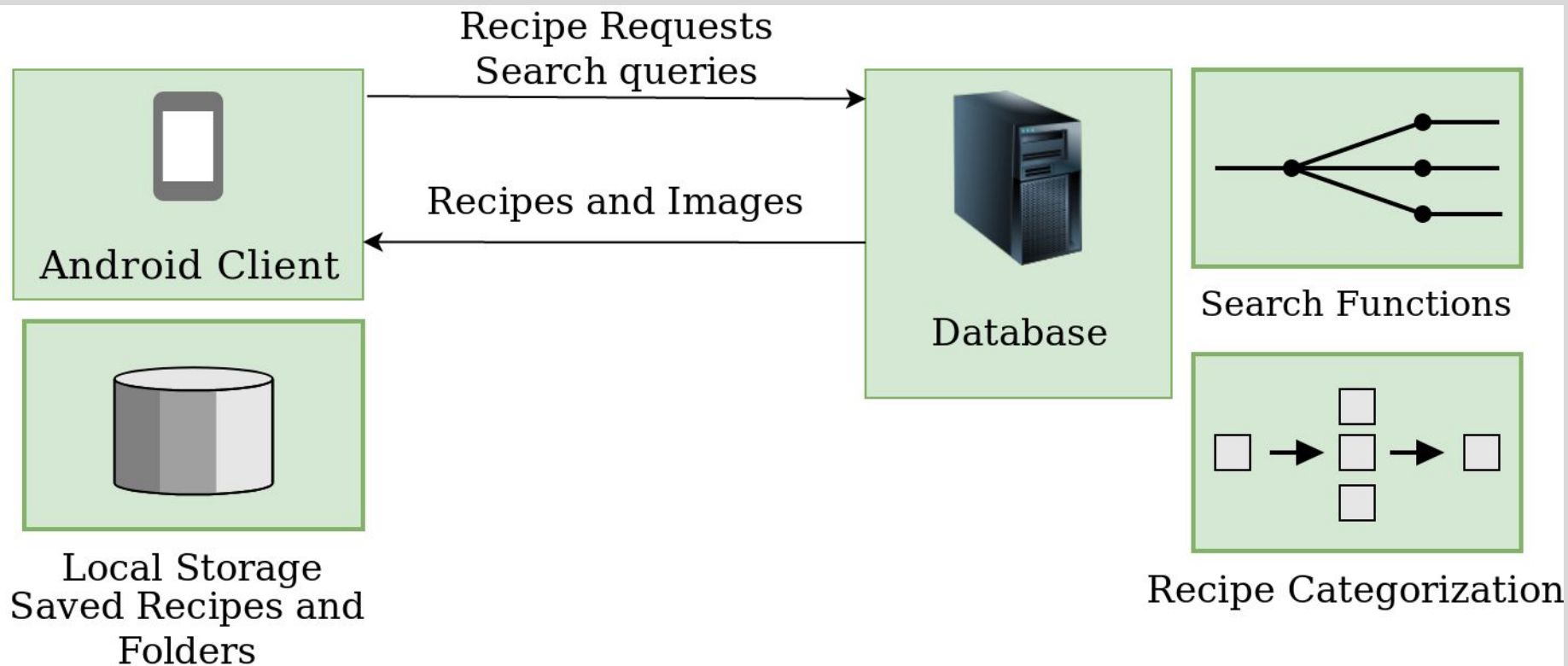
- Connect speech library
- Improve API search to include macronutrients parameters

- As a user, I want my phone to read ingredients and recipes out to me in steps while I cook (5)
- As a user, I want to be able to control the text to speech with gestures to have it read at my own pace (3)

Architecture



Architecture



Challenges/Risks

Challenges:

- Creating an intuitive UI that works across different devices
- Handling Client/Firebase interactions
- Text to speech implementation

Risks:

- Lack of experience in mobile development
 - Dealing with non-local databases
 - Only 1 physical testing device (only 1 member has an android)

Technologies

- Android Studio
 - Java
 - XML
- Google APIs
- Git
- Firebase

Minimum Viable Product

An android app that allows the use to view and organize text only recipes located locally.

Related User stories

- As a user, I want to be able to pick a category of recipe (3)
- As a user, I want to be able to add new categories (2)
- As a user, I want to be able to choose a recipe from the category I picked (2)
- As a user, I want to be able to create a new recipe (2)
- As a user, I want to be able to see the ingredients and procedure necessary to cook something (5)