

# **‘Hands Off’**

## **Cooking Application**

### **Second Iteration Supporting Document**

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# Introduction

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## Second Iteration

This document is provided to support the documents released as part of the second iteration of our product. The second release of our product contains the features marked as mandatory in the user stories as well as the some desirable and optional user stories.

## User Stories

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TRXX = Typical user requirement

### TR01

Updated this feature. In the first iteration the search function wasn't implemented correctly and sometimes didn't allow to search at all. It now consistently searches when you press the send button the keyboard input or the pan icon.

### TR02

Similar to TR01, the filters were not implemented either in the first iteration either. The search function can now take filters for dietary requirements.

### TR09

A suggestion algorithm has been implemented that uses a tag system to match similar recipes based on previous searches, favourites, and recipe selections. Each recipe now has a tag associated with it. Instead of placing the suggestions in a horizontal scrollbar (like previous suggested), it now orders the recipes on the home screen as a way of suggesting similar recipes.

### TR16

The ingredients in the shopping list can be ticked with a check box to mark them as obtained. They can also be cleared with a button that clears all checked ingredients.

### TR17

A button can be pressed in the shopping list that clears all the listed ingredients.

### TR20

There is an option in the settings screen that turns off all the sounds of the app.

### TR21

There is an option in the settings screen that turns off all haptic feedback, like vibrations, in the app.

### TR24

The recipe selection screen has a button next to the start recipe button that allows the user to add the ingredients to the shopping list screen. Ingredients are also additive so there won't be any multiple instances of the same ingredient in the shopping list.

### TR27

Recipe steps (presentation slides) can show and play videos to the user. The app also contains an instructional videos page that can play videos on things like how to chop onions, grill meat etc.

### TR28

Video controls are added to videos on the presentation slides and the instructional videos page that allows user to play, pause, stop, seek etc.

### TR31

After exiting the recipe step screen (presentation screen), the presentation will resume if the user goes back onto the recipe and presses the button to start the presentation. This works for pressing the home button and exiting the app, but not for powering off a device as all apps will be reset on a device restart.

### TR33

A prompt message appears when the user presses the start recipe button on the recipe selected screen, informing the user on how to navigate the recipe step (presentation slides) screen. The prompt also has a 'Don't ask me again' option so a user familiar with the navigation can remove the prompt.

### AR02

The 'My Recipes' screen displays all the user created recipes on the screen. They are also added the main recipe list so they can interact with the apps history, favourites, and searching features.

## AR04

A button on the 'My Recipes' screen, at the bottom right with a + symbol, takes the user to the create a recipe screen which allows the user to create their own recipe; adding titles, ingredients, descriptions etc. Thumbnails can be selected from a gallery popup when the user selects the 'Add thumbnail' button, however there is an issue with the Android file path to obtain the chosen image thus the thumbnail is never added. This can be fixed in a later iteration.

## AR17

Everytime the app is opened or the screen is transitioned, the app requests the recipe list from the server and loads them onto the screen. Some improvement could be done where it requests the list from the server after a time interval.

## AR18

A pull down to refresh feature has been added to the home screen, so when the user does a pull down motion it requests the recipe list from server and updates the list if necessary.

# Summary of the Second Iteration

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All of the above user stories have been included in this first iteration and fulfill their individual requirements with the exceptions of TR06, TR07. These user stories have been pushed back to the next iteration as the prototype does not include the features that satisfy the user's requirements. Unfortunately we didn't have enough time to implement these features however they will be included within the next iteration of the product.

The prototype product allows the user to open the 'Hands Off' app and use it as described in the user stories. The prototype demonstrates the product is functionally correct on a skeleton level, with the next iteration developing the product into a polished final product which has all the required features included.

# The Future of HANDS OFF

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The next iteration will develop the app from the final product by implementing the future and optional user stories as well as some of the desirable user stories. Some desirable user stories for the next iteration include:

### TR03

Currently, the search page doesn't take ingredient searches. Expanding upon this, searching could include authors, durations, and recipe tags.

### TR15

This has been moved to a desirable requirement. It also needs to account for the multiple instances of the same ingredient, so two tags appear next to the ingredient showing the recipe name.

### TR19

Notifications weren't properly implemented in this iteration. This feature will accompany notifications in a future iteration.

### TR22

Gesture control can be expanded or replaced with voice commands. This would give the user a truly handsless experience with the app with minimal screen contact. It is, however, quite a difficult feature to implement because there are many limiting factors such as the using the camera excessively will drain the device's battery very quickly. This can lead to a very poor user experience and as such it must be implemented with a efficient solution or not at all.

### TR25

The rating systems has been replaced with a favourites counter displaying how many users have favoured the recipe, and a future comments system for a full review of the recipe. This could be commenting using Facebook accounts if the app account system isn't planned to be implemented.

### TR30

Subtitle accessibility feature that would be very useful for some users but it isn't a priority.

### TR34

Storing recipes to the local device from the server, allowing for quicker access to the recipes without having the request them from the server. This feature could also be made into a caching system for recipe, so if there were many users requesting recipes then it would free up server processing.

### TR35

Not a priority but the app should be able to fully operate offline without the need of the server, so the app data contains recipes and presentations on download.

### AR03

User should be able to delete their own recipes. This could be done by adding in a button to the my recipes page, or a button overlay on each recipe, to allow the user to delete any of their own recipes.

### AR05

Similar to AR03, a button overlay that can lead to an edit recipe page (similar to create a recipe page) that can change any feature of the created recipe.

### AR06

This will require the accounting system.

### AR07-AR13

The accounting system will require the server code and structure to change or completely redone. Each user (who creates an account) will require their own space on the server for their own recipes, and if they choose to by the license to publish then their public recipes must be placed in the public recipes on the server so every user can see it. For this to work well, support contracts with companies such as CouchBase are needed and can help with the management of the server. Login to Facebook is also a possible route to go down. This task will take a very long time to fully implement, and I don't expect this feature to be in the app for another few iterations.

### AR14

Premium version of the app has not be fully implemented yet. This should be an absolute priority after the release of the second iteration.

### AR15

Low data usage should not load anything that is deemed to large, like downloading videos or high resolution images.

### AR16

A basic payment method of using cards should be in the app alongside any other purchasable service. Other payment methods like PayPal can implemented whenever.

### AR19

Not a priority at the moment. However, if partnership with any major retailer happens then it should be able to export the shopping list to their apps or website and possible buy the ingredients for the user.