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**GitHub Username:** sasindroid (I am planning to release this app to Play store so am upload a zip file instead of Github.)

## Madras kitchen

### Description

Experience the taste of home made Madras kitchen in both Vegetarian & Non-vegetarian categories. This app shows & adds a tasteful delight from Madras hot curry to the famous

dosa/Idlis. From traditional to the latest recipes, this app showcases a slogan of “health at heart” & “taste in mind”. Enjoy and take care!

## Intended User

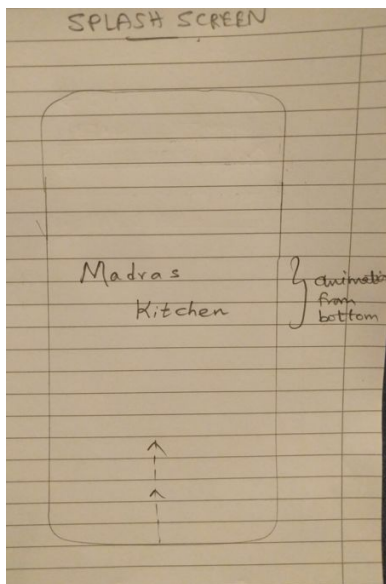
Everyone who is interested in learning Madras style of cooking.

## Features

- Displays list of recipes.
- Displays a detail view of each recipe.
- Search and filters recipes.
- Saves information to the database.

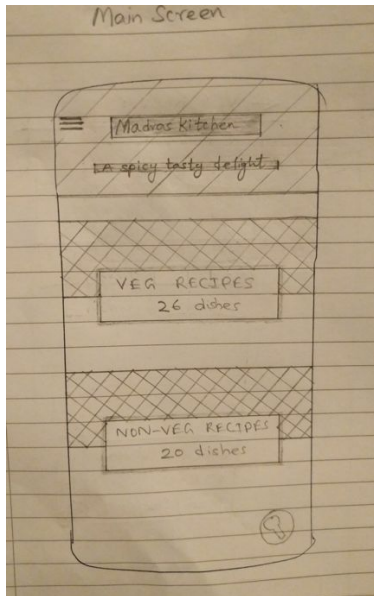
## User Interface Mocks

### Screen 1 (Splash Screen)



The App name - “Madras kitchen” will appear on a 2 second splash screen animated from the bottom to center.

## Screen 2 (Main Screen)



This is the main landing screen right after the splash screen. This screen will have:

- 1) A navigation drawer - directs to "About app" screen.
- 2) A Parallax toolbar with a nice image background. On top of the image is the App name.
- 3) Two Card Views - "Veg Recipes" & "Non-Veg Recipes" which it's own background images. On-click on each of these pages takes to the "List" screen.
- 4) A FAB button that takes the user to "Search/Filter" screen.

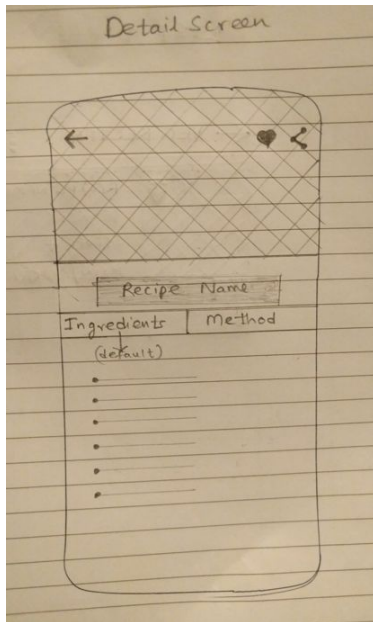
### Screen 3 (List Screen)



The user reaches here when they click on any of the Card views in Main screen. This screen will have:

- 1) Shows list of recipes with a nice recipe image.
- 2) The user can see if they have already marked a dish as favourite.
- 3) The Recipe name, cooking duration, serves for & the type of recipe is displayed.
- 4) The menu has functionalities to sort the list by - cooking duration, serves for & favourite.
- 5) On click of a recipe takes the user to the Detail Screen.

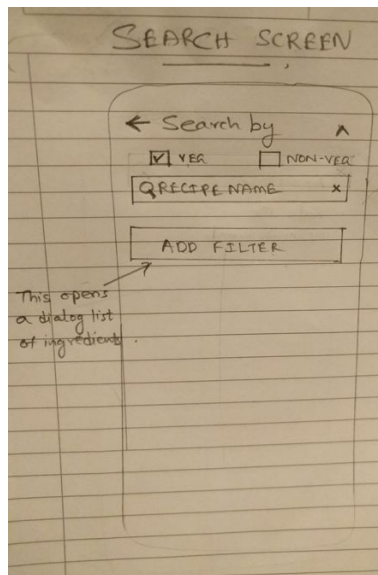
## Screen 4 (Detail Screen)



The Detail screen will be as simple as possible with the below features:

- 1) A nice background image of the recipe on the top.
- 2) The recipe can be marked favourite by tap of the heart icon.
- 3) The recipe can be shared to friends by tap of the share icon.
- 4) Two tabs - Ingredients & Method will display the appropriate details.

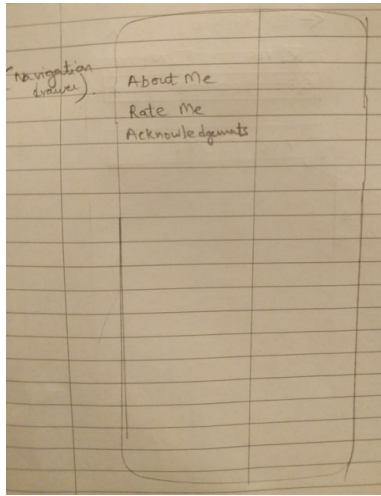
## Screen 5 (Search/Filter Screen)



The user reaches to the Search/Filter screen when they tap on the FAB in the Main screen. This screen does:

- 1) Search option based on check-box (Veg / Non-Veg).
- 2) Filter recipes based on Ingredients.

## Screen 6 (About)



Features of the Navigation drawer:

- 1) About Me - Displays the version of the app and author details.
- 2) Rate Me - Takes to the Play store to rate. Currently this feature will be disabled.
- 3) Acknowledgements - Displays the 3rd party libraries & copyright informations.

## Key Considerations

How will your app handle data persistence?

I will build a Content Provider that talks to the SQLite database.

Describe any corner cases in the UX.

- 1) At the moment, the images used are part of the apk. But in the future, when more recipes are added, to avoid bigger apk sizes I would need to have a server that hosts these images.

Describe any libraries you'll be using and share your reasoning for including them.

Glide - To handle the loading and caching of images.

## Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and decompose them into tangible technical tasks that you can complete incrementally until you have a finished app.

### Task 1: Project Setup

- Create a new Android project in Android Studio giving it “MadrasKitchen” as the Project name.
- Configure the project to have a min, max & target api version.
- Configure the libraries.
- Configure a Emulator.
- Build the project and run the app to see if everything works fine.

### Task 2: Prepare Images & required assets

- Load the recipe images with proper naming format into the drawable folder.
- Create & load other assets in required drawable folders.

### Task 3: Prepare Recipe data

- I am planning to start with 10 recipes at the moment.
- Create a json file with recipe data.
- Load this file to the Raw folder.

### Task 4: Create Database & Content Provider

- Create Contract classes.
- Create DB Helper class.
- Create a Content Provider class using Android studio utility.

### Task 5: Create Model classes

- Create Model classes
- Implement Parcelable on each class and implement the methods (this will be handy to transfer objects between activities).



## Task 6: Implement Splash Screen & load data

- Build a full screen UI for the Splash Screen.
- Create an activity
- Create layout
- Create animation xml to animate a textview from bottom to the center of the layout.
- Have a utility to load the json file to the database in the background.
- Post loading automatically navigate to the Main screen.

## Task 7: Create Main Screen

- Create layout for Phone & tablet - Portrait, landscape.
- Adhere to Material design standards and guidelines (in all the screens).
- Create an activity.
- Use Glide to load images.

## Task 8: Create List Screen

- Create layout for Phone & tablet - Portrait, landscape.
- Landscape layout to accommodate 2 items in a row.
- Create an activity.
- Use Glide to load images.
- Use Content provider to get the list.
- Implement Menu to sort the list.

## Task 9: Create Detail Screen

- Create layout for Phone & tablet - Portrait, landscape.
- Create an activity.
- Use Glide to load images.
- Implement Share & Mark Favourite buttons on Toolbar.
- Layout to have two tabs - Ingredients & Method.
- Use Content provider to get the details.
- The entire screen to be parallax scrollable.

## Task 10: Create Search Screen

- Create layout for Phone & tablet - Portrait, landscape.
- Create an activity.
- Use Content provider to search based on parameters.
- Implement “Add Filter” dialog that displays the list of ingredients.

### **Task 11: Create Navigation drawer on Main Screen**

- On the Main screen, create a Navigation drawer.
- The below child elements to be implemented:
  - About Me - This will open a fragment providing information about the App.
  - Rate Me (This will be dummy as of now and will be pointing to play store when productionised.)
  - Acknowledgements - This will open a fragment providing information about the 3rd party libraries used.

### **Task 12: Integrate Google Play Services**

- On the Main screen integrate Admob to show ads.
- On the List & Detail screens integrate Analytics to track the usage.

### **Task 13: Create Builds**

- Create 2 variants:
  - Free (with Ads)
  - Paid (without Ads)
- Sign the app with a valid Keystore ready for release.