

Release Plan

KITT (Kitchen in the Trees)

The KITT Kats

Release Plan 1, Final Revision

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Minimum Viable Product

- User should be able to view calendar (visually organized) with expiration dates & days remaining
- User should be able to see a list (card view) of the foods ordered by expiry dates
- User should be able to delete items from their list after expiry or if they consume the item
- User should be able to set notification settings based on how frequent the user wants to receive them
- User should receive notifications according to their preferences in settings
- The application should have a good user interface

High Level Goals

- Be able to view calendar (visually organized) with expiration dates & days remaining
- Be able to create a list of what you have arranged by time left
- Be able to set and receive reminders / notifications
- Be able to see how much of a meal / item you have left
- Be able to create, login, and delete accounts
- Be able to switch to dark mode
- Be able to create / access database of common food items and their expiration period
 - -Simple one, and users can add on to it

User Stories for Release

- **Sprint 1 (spikes have highest importance)**
 - *SPIKE UI (very basic for now)
 - Figure out what the layouts will look like + functionality so we know what buttons and things we'll need
 - *SPIKE Local Database

- Refresh of sqlite
 - *SPIKE Android Studio
 - refresh
 - User Story #1: (8 points) As a user, I want to be able to manually input a food item and give it an expiration date so that I can keep track of what I have and when it will expire
 - At this point, this will be very basic manual implementation
- **Sprint 2**
 - User Story #1: (8 points) As a user, I want to be able to manually input a food item and give it an expiration date so that I can keep track of what I have and when it will expire
 - At this point, this will be very basic manual implementation
 - SQLite to store food
 - Date picker to input expiration dates manually
 - User Story #2: (5 points) As a user I want to be able to use a calendar so that I can see on what days my food will expire.
 - Calendar, test with being able to add your own expiration dates
 - Very basic UI
 - Days where food expires are marked
 - Make sure user can see what food is expiring on what day
 - User Story #3: (5 points) As user I want to receive notifications so that I won't forget what food I have and when it's going to expire
 - Reminders / notifications
 - Very basic UI
 - *SPIKE Database (not local)
 - How we should implement that for the master of individual foods (ie groceries) and another for user specific
 - Implement basic local sqlite db for PoC.
 - User Story #4: (13 points) As a user, I want my home page and calendar pages to look nice so that it will be visually pleasing.
 - Card view for item list
 - UI improvements like dark mode, layout, design
- **Sprint 3**
 - User Story #2: (5 points) As a user I want to be able to use a calendar so that I can see on what days my food will expire.
 - Calendar, test with being able to add your own expiration dates
 - Very basic UI

- Days where food expires are marked
 - Make sure user can see what food is expiring on what day
- User Story #3: (5 points) As user I want to receive notifications so that I won't forget what food I have and when it's going to expire
 - Reminders / notifications
 - Settings
 - Very basic UI
- User Story #4: (13 points) As a user, I want my home page and calendar pages to look nice so that it will be visually pleasing.
 - Card view for item list
 - Overall UI improvements like dark mode, layout, design
- User Story #5: (13 points) As a user, when I input a food item I want it to autofill the expiration date with the option to manually adjust it so that I don't have to constantly look up expiration dates for my food
 - Firebase for db storage instead of a local database
 - (name, type of food, expiration)
 - Database (not local)
 - Set up a cloud hosted db that the app can query in order to predict expirations of food entered by the user
- *SPIKE Master database data collection.
 - Try to find an existing data source for common food items and their expirations.
 - If one doesn't exist, try to find a website that has the required information from which we can web scrape and assemble our own database.
 - If neither of the above are possible, create a small sample database manually as a PoC

● Sprint 4

- User Story #2: (5 points) As a user I want to be able to use a calendar so that I can see on what days my food will expire.
 - Calendar, test with being able to add your own expiration dates
 - Very basic UI
 - Days where food expires are marked
 - Make sure user can see what food is expiring on what day
- User Story #3: (5 points) As user I want to receive notifications so that I won't forget what food I have and when it's going to expire
 - Reminders / notifications
 - Settings
 - Very basic UI

- User Story #4: (13 points) As a user, I want my home page and calendar pages to look nice so that it will be visually pleasing.
 - Card view for item list
 - Overall UI improvements like dark mode, layout, design
- User Story #5: (13 points) As a user, when I input a food item I want it to autofill the expiration date with the option to manually adjust it so that I don't have to constantly look up expiration dates for my food **WORK IN PROGRESS**
 - Firebase for db storage instead of a local database
 - (name, type of food, expiration)
 - Database (not local)
 - Set up a cloud hosted db that the app can query in order to predict expirations of food entered by the user
- User Story #6: (3 points) As a user, I want to sign in with Google so that my data is saved
 - Login with Google to sync data across devices

Product Backlog

- User Story 1: (8 points) As a user, I want to be able to manually input a food item and give it an expiration date so that I can keep track of what I have and when it will expire
 - At this point, this will be very basic manual implementation
- User Story 2: (5 points) As a user I want to be able to use a calendar so that I can visually see on what days my food will expire.
 - Calendar, test with being able to add your own expiration dates
 - Very basic UI
- User Story 3: (5 points) As user I want to receive notifications so that I won't forget what food I have and when it's going to expire
 - Reminders / notifications
 - Very basic UI
- User Story 4: (13 points) As a user, I want my home page and calendar pages to look nice so that it will be visually pleasing.
 - UI improvements like dark mode, choose background color, design
- User Story 5: (13 points) As a user, when I input a food item I want it to autofill the expiration date with the option to manually adjust it so that I don't have to constantly look up expiration dates for my food
 - Fire base for db storage instead of a local database
 - (name, type of food, expiration)
- User Story 6: (3 points) As a user, I want to sign in with Google so that my data is saved
 - Login with Google to sync data across devices

- User Story 7: (8 points) As a user I want an intuitive and user-friendly way to input the food items so that it's not confusing and easy to keep track of my groceries
 - Implement decided UI framework in actual app.
 - Have the app store basic information
- User Story 8: (8 points) As a user I want the app to determine when my food will expire depending on storage conditions (refrigerated, frozen, cooked), so that I can have a more accurate expiration date.
 - Add to database
 - Add slider/other UI element to determine ripeness.
- User Story 9: (5 points) As a user, I want the app to suggest a food as I'm typing it in so that I don't have to type the whole thing thus providing a better user experience.
 - Have app query master database to determine expiration period.
 - Autofill data if user is entering food that's present in the master DB
- User Story 10: (3 points) As a user, I want to be able to save my personal recipes into the app for convenience.
 - Users can save personal recipes on the app
- User Story 11: (3 points) As a user, I want to be able to create an account with a custom username so that when sharing recipes people can't see my full name.
 - Users will use google sign in, but be able to create new username for the app
- User Story 12: (5 points) As a user, I want to use a slider to determine how ripe my food is, so that I can get a more accurate expiration date.
 - Add slider element to determine ripeness for perishable food.
- User Story 13: (8 points) As a user, I want to be able to publicize my recipes so that I can share my own and look at others.
 - Create a tab/section of the app on profile to publish recipes
- User Story 14: (2 points) As a user, I want to be able to rate recipes and see recipe ratings based on level of difficulty (easy, medium, experienced)
- User Story 15: (13 points) As a user, I want to be able to scan items through a barcode, so that I do not have to manually input names.
 - Implement barcode scanner and look through database
- User Story 16 (20 Points): As a user, I want to take pictures of receipts so that all the food I buy will be logged into the system at once.
 - Take pictures of receipts, which are perishable (API)

Project Presentation:

<https://docs.google.com/presentation/d/1Dni29p--IcDeUbMhADLuj09S-0LR7u5LNGzjnTFsW7c/edit?usp=sharing>