

Lab Report #1: Stakeholders and Requirements

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SOFE 2720

Principles of Software and Requirements Engineering

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A. PreLab

i) identify the problem:

The difficulty of cataloguing and keeping track of all products in the kitchen.

Solution:

Kitchen Organizer Application: Keeps track of product information within your kitchen

- Easy Navigation
- Simple Visual Layout
- Keeps Database of product:
 - Brand/Name
 - Price
 - Location
- Gives list for groceries
- notifies of upcoming expiry dates

Vision Statement: To make an application that frees time for cooks to cook and not worry about remembering what foods or products they have.

ii) propose system user stories

- Users rely on the information from the product to buy groceries without missing items and buying unnecessary items.
- Users can check if all ingredients are available for a given recipe.

iii) identify assumptions and constraints

- Has to be simple and straightforward.
- Has to run on mobile devices

iv) capture requirements from user stories

- Catalogues items in kitchen
- Lists groceries
- Lists available ingredients
- Uses reliable database

B. Users Stories (Agile Approach)

Round 1 -

1.

Facilitator (Sibi Sabesan, Blue)

Software Developer (Brenden Muldowney, Yellow)

Customer (Osamah Al-Bayati, Pink)

2.



3.

System Functionalities

A common theme found between the project development team and stakeholders was creating a simple U.I that would be easy for the User to navigate through. We also decided to go with an image based layout rather than a file system that relied on text drop down and lists. Main functionalities will consist of presenting accurate information imported from a valid database, customizable layout and sending users an alert of low product stock and upcoming expiry dates. Some important factors to be aware of are the roles of each project member and what positions would optimize their strengths.

4.

a) The "User" of the solution

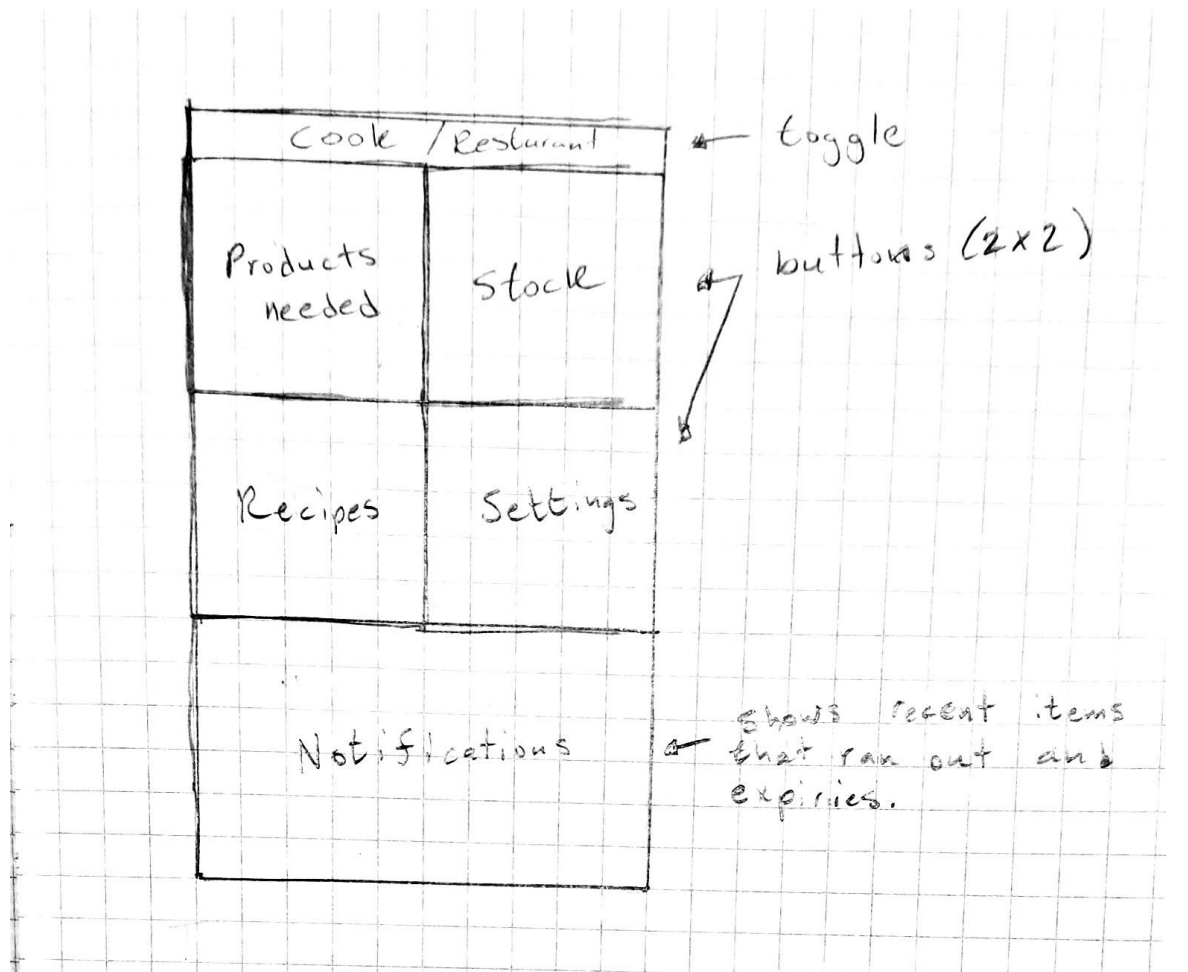
- Common Cooks, everyday people who cook at home, buy perishables and other categorizable products. Common cooks want to know what they have and what they need. There should be two lists, one for products they have for when they are cooking. And one of the products they want for when they are buying groceries.
- Restaurants/Professional Chefs, Want to know how many plates they can sell of a certain dish. Also, they want to know what dishes were popular. The application should be able to calculate how much expected food is needed for the duration the restaurant is open.

b) The outcome you envisage from an interaction with the system

Users should be able to rely on the system and decrease time spent cataloguing groceries and what dishes they are able to cook. Users should feel like they are saving time.

c) Yields more time for the user and faster cooking.

UI Diagram Sketch:



This is the Default UI. Users can move, replace and resize each rectangle/square and customize.

- STRQ1 Should be able to keep purchased products organized at home.
- STRQ2 Give users common product information.
- STRQ3 Easy to understand Navigation system (UI).
- STRQ4 Simple Minimal Layout.
- STRQ5 UI is Customizable.
- STRQ6 Uses in depth databases for information.
- STRQ7 pulls live product information (Name, Price, etc.).
- STRQ8 Is able to point out expired products for disposal.

5. Story Narrative Cards

Story Narrative	<i>Search</i>	<i>Priority</i> 3/5
As a	Restaurant Owner	<i>Size</i> 1
I want	A search feature	
So that	the application will direct me to a specific product	
[front of card]		

Acceptance Criteria	<i>Search Function</i>
Given	Input – product name
When	Browsing products
Then	Output – product found or not found
[Back of card]	

Story Narrative

Notification

Priority 3/5

As a

Home Cook

Size 1

I want

A notification system

So that

the application will inform me on expiry dates and low
stocks

[front of card]

**Acceptance
Criteria**

Notification Function

Given

Initial manual entry of Date/Stock

When

Expiry dates are close, or Product stock is low

Then

Output – Notification will be sent to user

[Back of card]

Story Narrative

U. I

Priority 3/5

As a

Potential Customer

Size 1

I want

Simple U. I

So that

Navigation will easy access to information

[front of card]

**Acceptance
Criteria**

UI

Given

User display request

When

Application is opened

Then

User is presented with an easy-to-understand home page

[Back of card]

Summarized User Stories

Kitchen Product Application

Narrative: Organization

As a Restaurant Owner

I want to keep my kitchen organized,
And track what comes in and out
So that I know where anything is

Acceptance Criteria: (presented as Scenarios)

Scenario 1: Search

Given input (product name)

When browsing products

Then system Outputs – (whether product is found or not found in database)

Scenario 2: Notification

Given input (Expiry Date/ Product Stock)

When browsing products

Then system Outputs – (Alert sent to User)

Scenario 3: U.I

Given a request to make a simple display.

When application is open

Then system Outputs – (a simple U.I and navigation system)

Part C: Formal Requirements

