Project Proposal

JAMR Kitchen IMS (JKI)

1.0 About JAMR

1.1 Company Details

Company Name	JAMR Software Solutions
Company Address	18525 Northview Street, Dearborn, MI 48120
Phone Number	(313) 833-9505
Team Members	Javid Ditty, Andre Floyd, Mohamad Elzaatari, Ryan Len

1.2 Team Structure

As a result of having unknown and frequent changes in requirements, this project will proceed according to Scum, an agile software development model. Scrum teams have three roles, and each member in a Scrum team must adopt at least one role. Because the JAMR team will be a Scrum team for this project, the roles that each JAMR team member (see Section 1.1) will adopt are described in the table below. For more information about Scrum and its roles, see Section 3.0.

Scrum Master	Javid Ditty
Product Owner	Javid Ditty
Development Team	Javid Ditty
	Andre Floyd
	Mohamad Elzaatari
	Ryan Len

2.0 Project Specifications

2.1 Goals and Objectives

JAMR Kitchen IMS (JKI) is an inventory management system developed by JAMR Software Solutions. Its main goal is to help users track and restock foodstuffs in domestic, or small commercial, kitchens and pantries. Users will be able to create inventory databases to represent actual kitchens and entries in those databases to represent actual foodstuffs. Users will be able to view these representations and track the names, quantities, prices, purchase locations, expiration dates, storage locations, categories, and notes that they have given them. Using this information, users will be able to create digital shopping lists to help them plan to stock, or restock, their kitchens, updating their inventories afterward. Users will be able to share their inventories and shopping lists with other users, fostering communication and collaboration.

2.2 Statement of Scope

JKI is a web application hosted on a remote server that users can access using a web browser. Some user that navigates to JKI will be prompted to login or create an account with an email address and a password. Once the user has an account and has logged in, the user can:

- Logout, delete their account, and change their password.
- Create items that can be put in inventories and shopping lists.
- Create things that represent stores, including their prices for created items.
- Create inventories and view/edit/delete inventories with read/write/delete permissions.
- Create shopping lists and view/edit/delete shopping lists with read/write/delete permissions.
- Update their inventories as they purchase items on their shopping lists.
- Share their inventories and shopping lists with other users with certain access permissions.
- Set in-app and/or email restock alerts based on an item’s quantity and expiration date.

2.3 Software Context

JKI is designed to be used on mobile devices and laptops in kitchen, pantry, and market environments. Throughout the day, a user will be able to open the app and update their inventories and shopping lists as they use their kitchens and purchase groceries. Since users will both spontaneously and frequently open the app throughout the day, it must have low loading times and a simple UI that is easy to understand and navigate through. It will feel as easy as adding the information to a piece of paper.

The JAMR team was motivated to create JKI in response to organizational issues that each member encountered in their own kitchens. For example, some members:

- Bought items in bulk and forgot about their expiration dates.
- Forgot where they could buy an item that they’ve bought before.
- Forgot to purchase certain items while grocery shopping.
- Wanted to know the average price of an item before purchasing it.
- Forgot where they stored certain items in their kitchen.
- Were unsure about when to restock their kitchen.
- Were unsure about what they have stocked in their kitchen.

In short, the main motivation behind this project was the desire to solve problems that include, and relate, to these regularly occurring issues.

2.4 Supporting Technologies

Name	Category	Usage	References
HTML	Prog. Language	Structure web content	3
CSS	Prog. Language	Style web content	3
JS	Prog. Language	Make web content dynamic	3, 4
SQL	Prog. Language	Read and edit the project databases	3, 4
NodeJS	Web Server	Serve web content to clients	4, 5
MySQL	DBMS	Manage the project databases	4, 6
VSCode	IDE	Write the project code	7
GitHub	VCS	Manage the code repository	8
Zoom	Comms	Facilitate remote team meetings	9
WhatsApp	Comms	Facilitate asynchronous team communication	10

3.0 References

1	Scrum Information	Pressman, Roger S. Software Engineering: A Practitioner's Approach 9th ed. MCGRAW-HILL COMPANIES, 2005
2	Proposal Format Inspiration	https://templatelab.com/project-proposal-templates/
3	HTML, CSS, JS, SQL Tutorials	https://www.w3schools.com/default.asp
4	NodeJS-MySQL Tutorial	https://www.w3schools.com/nodejs/nodejs_mysql.asp
5	NodeJS Homepage	https://nodejs.org/en/
6	MySQL Homepage	https://www.mysql.com/
7	VSCode Homepage	https://code.visualstudio.com/
8	GitHub Homepage	https://github.com/
9	Zoom Homepage	https://zoom.us/
10	WhatsApp Homepage	https://www.whatsapp.com/