



COOKBOOK COMPASS

WEB WEAVERS



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WEB WEAVERS



MENU

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INTRODUCTION

WEB WEAVERS



INTRODUCTION

- **What is Cookbook Compass?**

- ◊ An innovative web platform transforming how individuals discover and enjoy cooking recipes.
- ◊ Designed for both novice cooks and culinary experts.
- ◊ Ensures finding the perfect recipe is easy and quick through advanced search capabilities and a comprehensive database.

- **Key Features:**

- ◊ **User-Centric Design:**

- Simple, intuitive navigation to boost user engagement.

- ◊ **Detailed Recipe Information:**

- Recipes include detailed instructions, ingredient lists and preparation times.

- ◊ **User Authentication System:**

- Secure signup/login for searching recipes.



VALUE PROPOSITION

- **Beyond Recipes - A Comprehensive Cooking Companion:**

- ◊ Inspires creativity in the kitchen.
- ◊ Fosters a community of food enthusiasts.
- ◊ Makes cooking accessible and enjoyable for everyone.
- ◊ Users discover new cuisines and learn cooking techniques.
- ◊ Committed to a seamless user experience with an extensive recipe database and robust search functionality.

Cookbook Compass: Your Gateway to Culinary Adventures



USER STORIES

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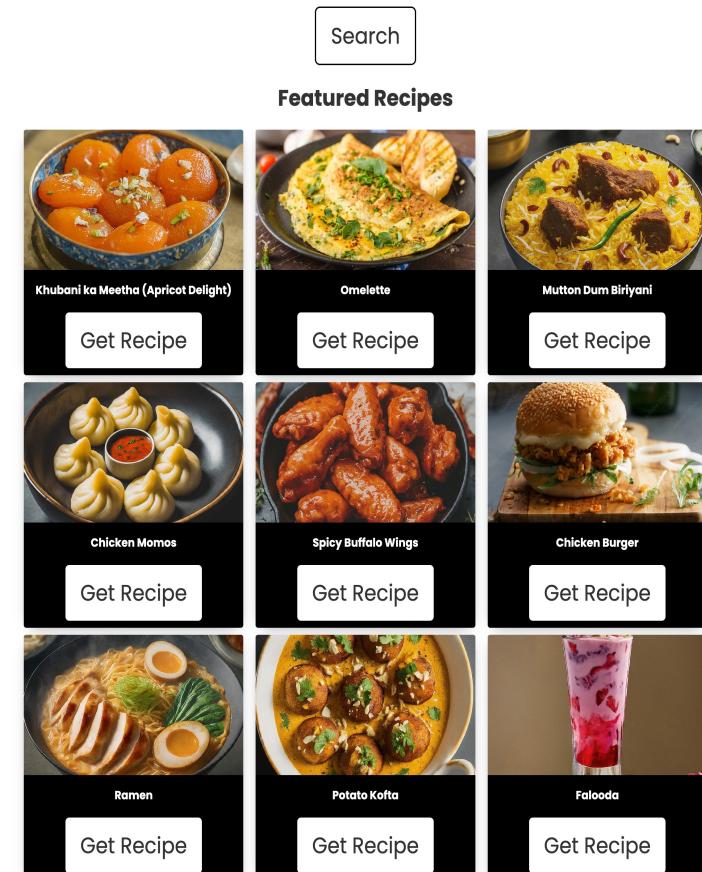


USER STORY - HOME PAGE

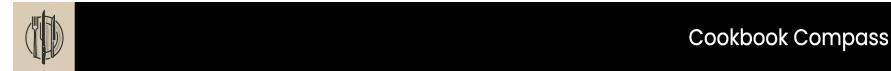


Cookbook Compass

- **Meet Chris:** Embarking on a Culinary Journey
- **First Impressions:**
 - ◊ Chris, a culinary enthusiast, is drawn to Cookbook Compass by its promise of unique and delicious recipes.
- **Featured Recipes Display:**
 - ◊ Home page highlights popular recipes, dynamically updated to provide high-quality content.
 - ◊ Chosen based on popularity and user ratings, offering a range from quick dinners to elaborate feasts.



USER STORY - HOME PAGE



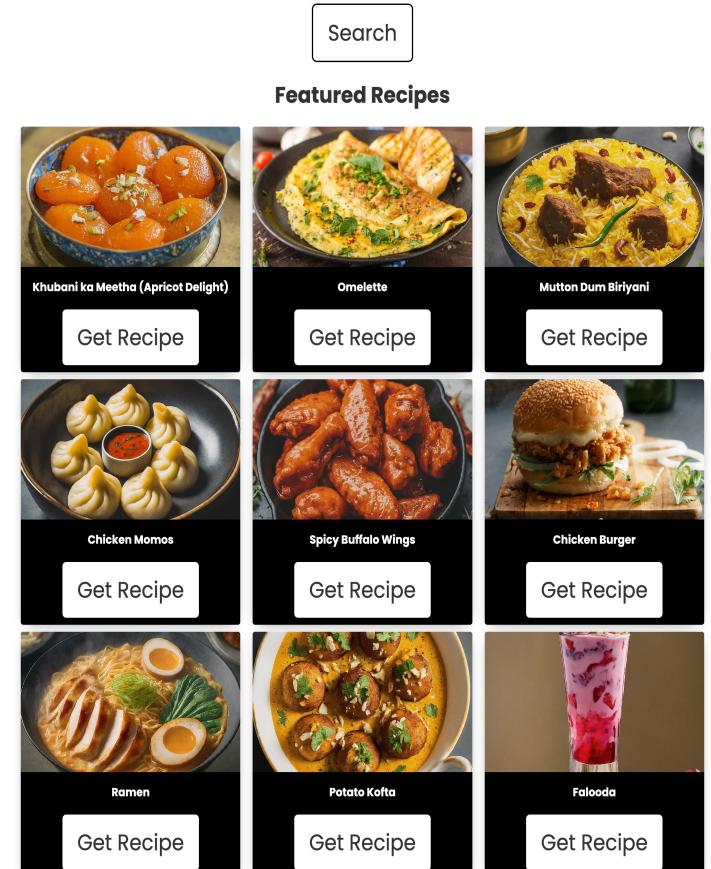
Cookbook Compass

- ◆ **Responsive Design:**

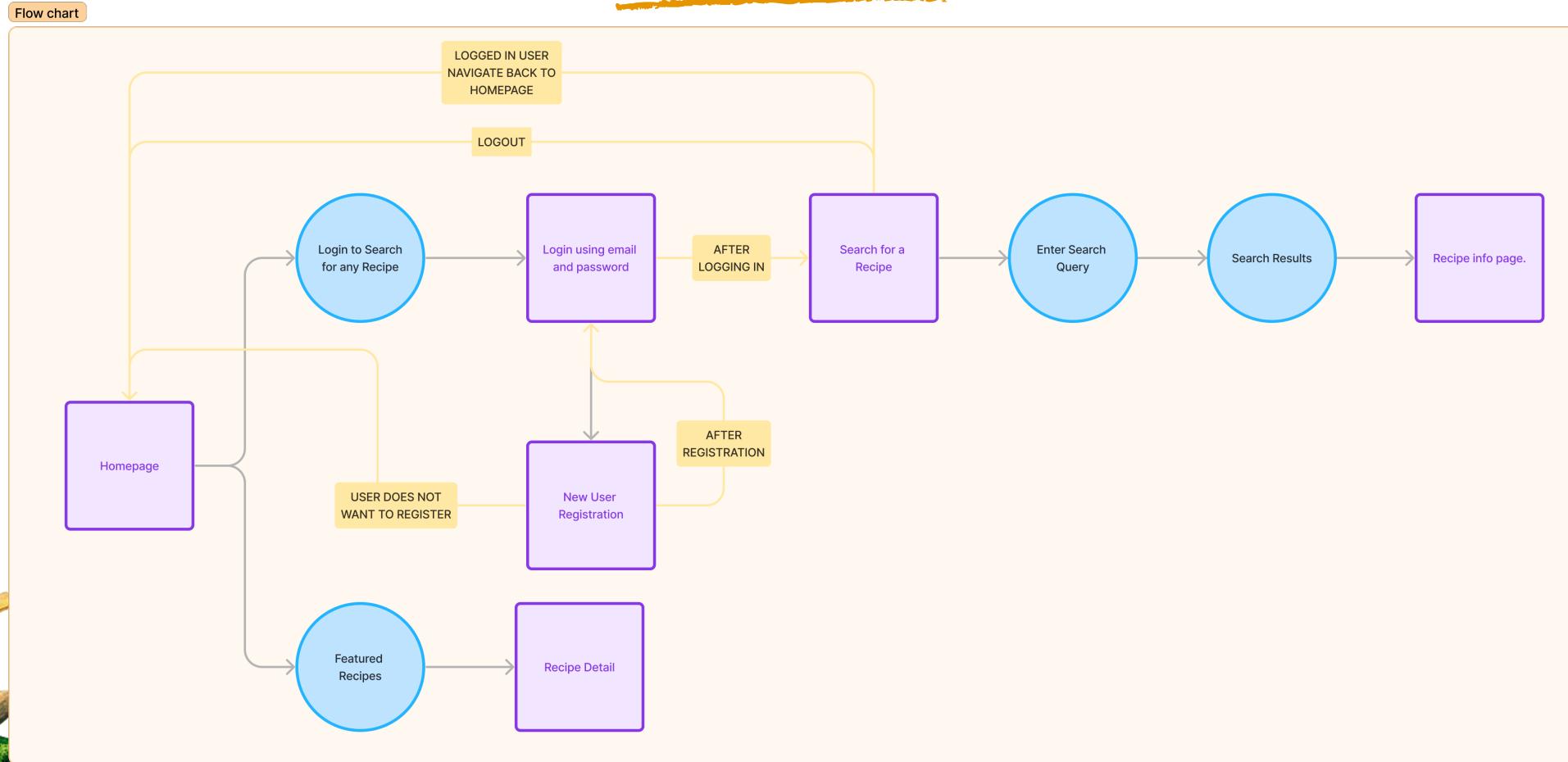
- ◆ Built with HTML, CSS, and JavaScript, ensuring a seamless browsing experience on any device.
- ◆ The layout adapts beautifully, providing an optimal viewing experience on Chris's laptop, tablet, or smartphone.

- ◆ **Search Functionality:**

- ◆ A prominent search button on the home page invites Chris to begin a personalized recipe discovery journey.
- ◆ Strategically placed to encourage exploration, leading to new user sign-ups or existing user logins for a customized experience.

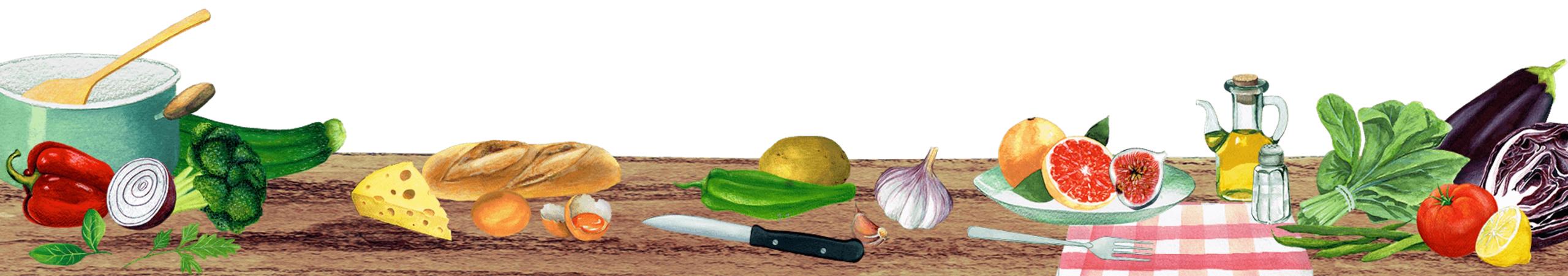


FLOW CHART- HOME PAGE



USER STORY - LOGIN/REGISTRATION

- **User Story:** Alex's First Venture into Cookbook Compass
- **Effortless Registration and Login:**
 - ◊ Intrigued by diverse recipes, Alex finds the registration simple, with real-time feedback ensuring a smooth process, correcting typos and guiding through secure password creation.
 - ◊ Appreciates swift, secure login and personalized culinary exploration.



USER STORY - LOGIN/REGISTRATION

- ◆ **Secure Information Handling:**

- ◆ Utilizes encryption for secure storage of user information, from emails to hashed passwords, protecting privacy and integrity.

- ◆ **User Feedback Loop:**

- ◆ Offers clear, instructive messages throughout the registration and login process, ensuring users are informed about input errors or security requirements.

- ◆ **Intelligent Error Messaging:**

- ◆ Email Validation: Instant error flagging for incorrect email formats, guiding users towards correction.
- ◆ Password Strength Indicators: Provides dynamic feedback during registration, encouraging secure password choices.



USER STORY - LOGIN/REGISTRATION

- ◆ **Password Encryption:**

- ◆ User security is a priority; passwords are encrypted with advanced hashing algorithms, ensuring data safety.

- ◆ **Error Handling for Security:**

- ◆ Immediate feedback on entry errors, like incorrect emails, enhances the security of the registration and login processes.
- ◆ System assesses password strength during registration, advising on stringent security criteria.
- ◆ A temporary lockout is implemented after several failed login attempts to prevent unauthorized access.



USER STORY - LOGIN/REGISTRATION

- **User Feedback Mechanisms:**

- ◊ Clear, immediate feedback during registration and login, with helpful error messages and positive confirmation prompts.

- **Secure Session Management:**

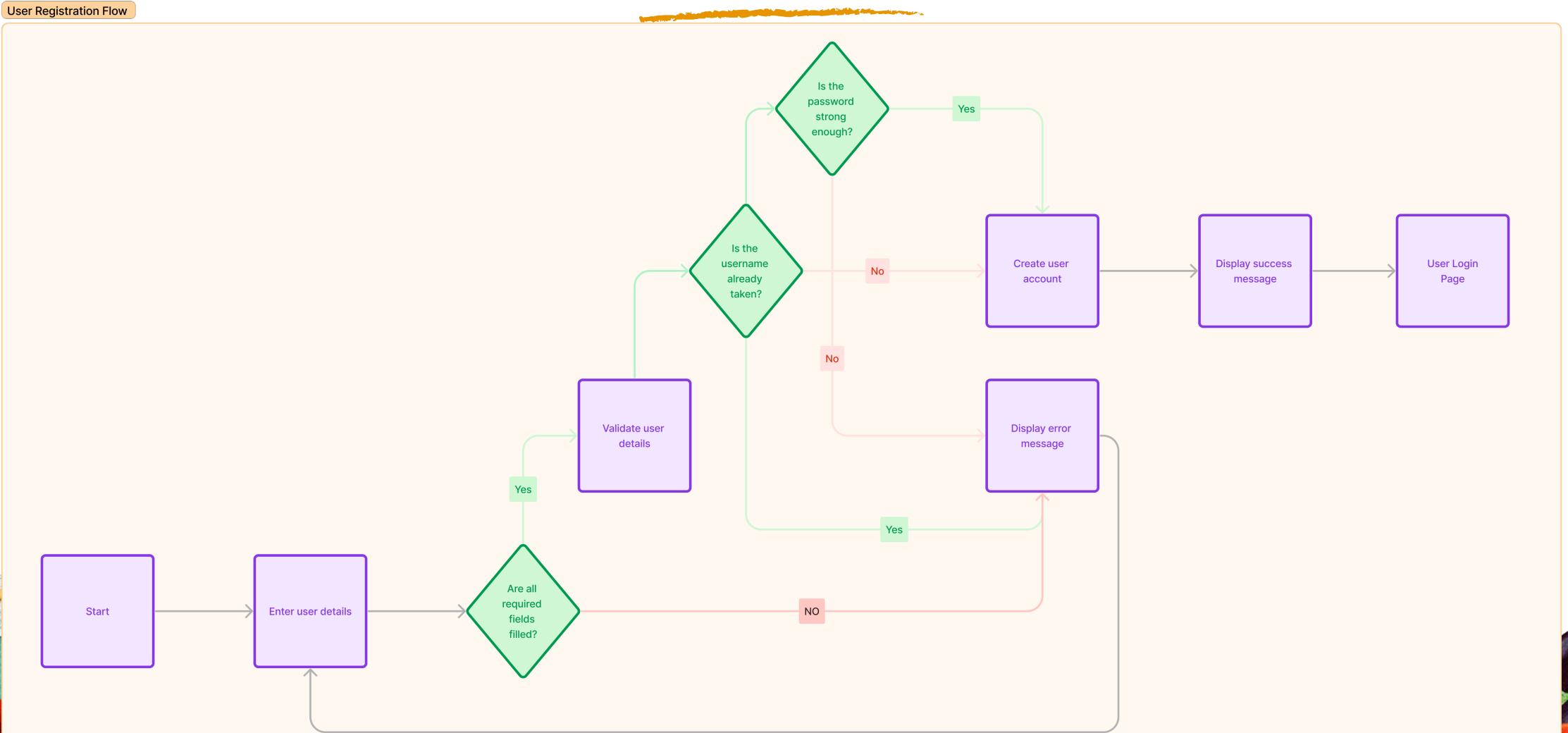
- ◊ Post-login, a secure session allows Alex to navigate Cookbook Compass without repeated logins, with sessions expiring after inactivity for added security.

- **Security and User Experience: Perfectly Blended**

- ◊ For Alex and all users, Cookbook Compass ensures a balance between secure access and a seamless culinary discovery experience.

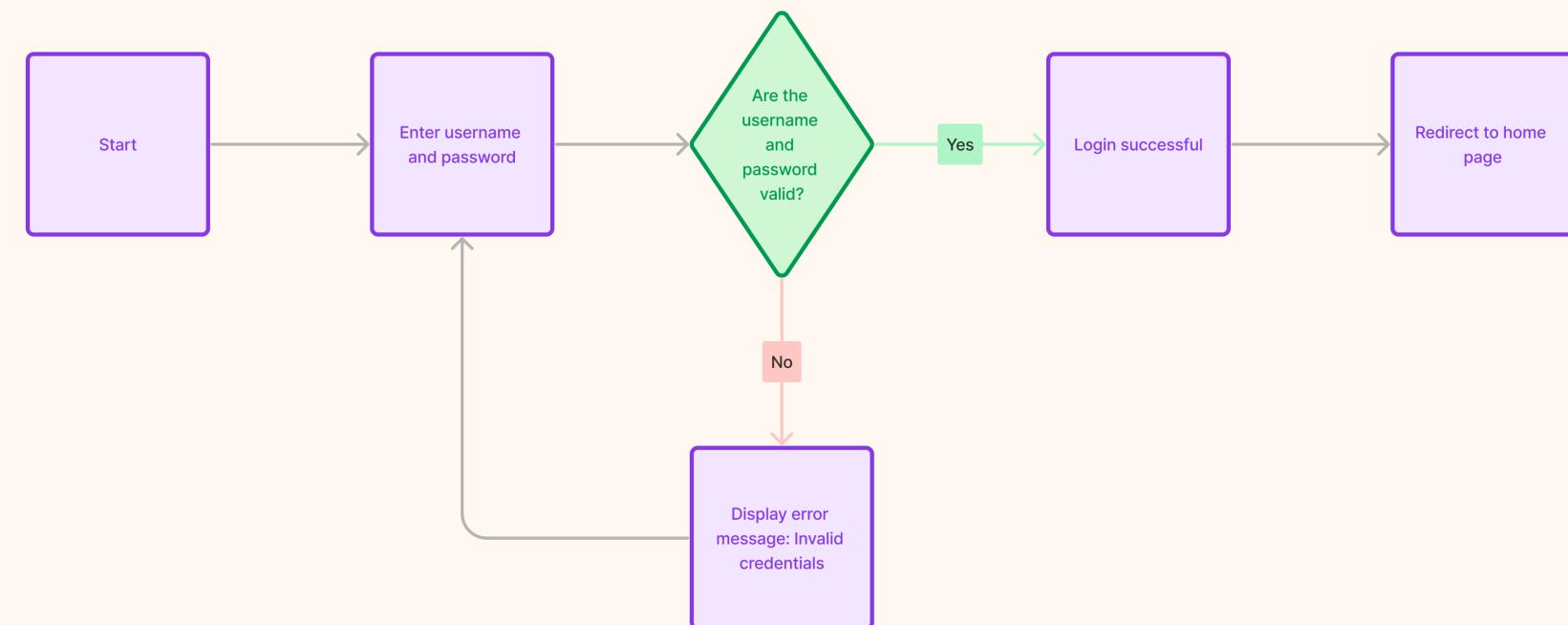


FLOW CHART - LOGIN/REGISTRATION



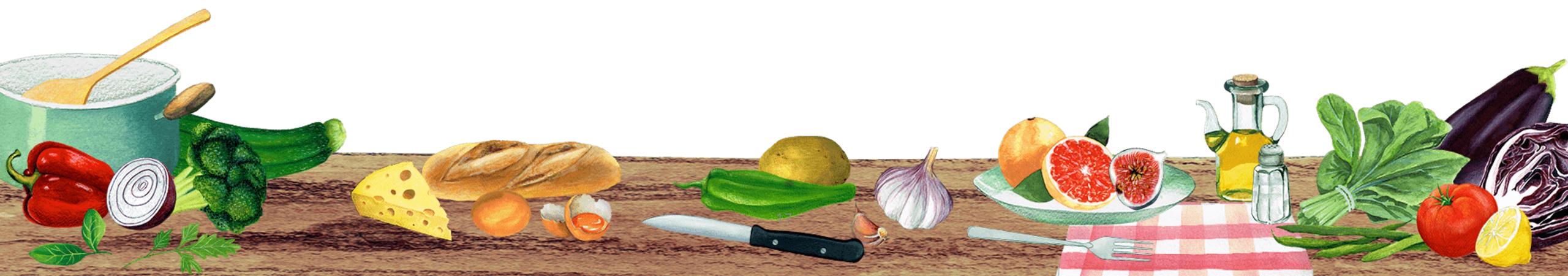
FLOW CHART - LOGIN/REGISTRATION

User Login Flow



USER STORY - SEARCH

- **User Story:** Jordan's Effortless Recipe Search for "Chicken Parmesan"
- **Quick and Direct Search:**
 - ◊ Jordan uses Cookbook Compass to find a "Chicken Parmesan" recipe, appreciating the direct route to the desired recipe, highlighted by a vivid image and step-by-step instructions.



USER STORY - SEARCH

- **Direct API Search:**

- Utilizes direct API calls to enable searching by exact recipe names, streamlining searches for specific dishes.

- **Error Handling:**

- Handling No Results: Provides a clear message for no-result searches.

- **Optimized Recipe Displays:**

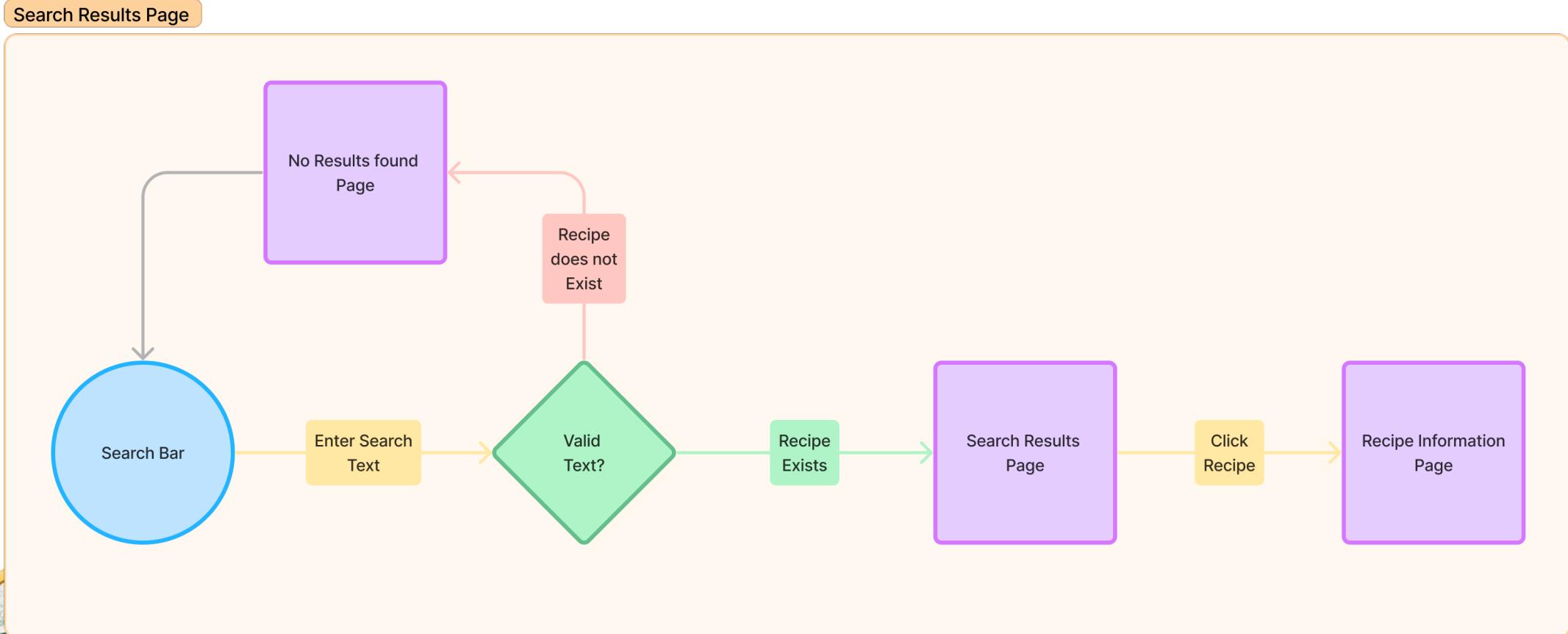
- Displays results as recipe cards focusing on essential details for quick, hassle-free access.

- **API Efficiency:**

- Dynamic content retrieval through efficient API use, ensuring fast, accurate search results with minimal latency.



FLOW CHART - SEARCH



USER STORY - RECIPE INFO

- **User Story:** Sam's Exploration of "Vegetarian Lasagna"
- **Visual and Informative Guidance:**
 - ◊ Sam discovers the "Vegetarian Lasagna" recipe, captivated by vibrant, high-resolution images and an intuitive layout that enhances the cooking journey.
 - ◊ The Recipe Information Page showcases a comprehensive ingredients list and organized cooking instructions for a seamless experience.



USER STORY - RECIPE INFO

- **Ingredient Transparency:**

- Detailed ingredients list with quantities and preparation notes, enabling easy pre-cooking preparation.

- **Step-by-Step Guidance:**

- Cooking instructions laid out in a clear, sequential format; concise yet descriptive to suit all skill levels.

- **Optional Visual Aids:**

- High-definition images and optional video tutorials offer a multi-sensory learning experience, making complex steps understandable.

- **Responsive Design:**

- The Recipe Information Page is optimized for all web browsers on desktops for pre-cooking study.



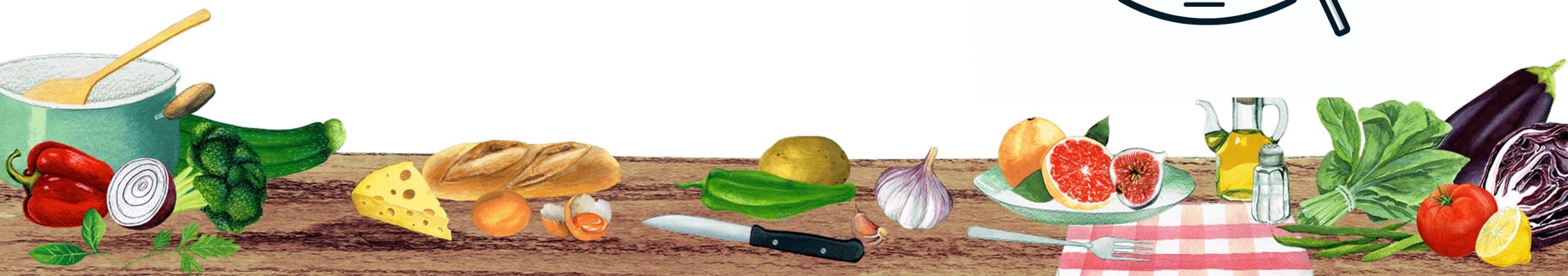
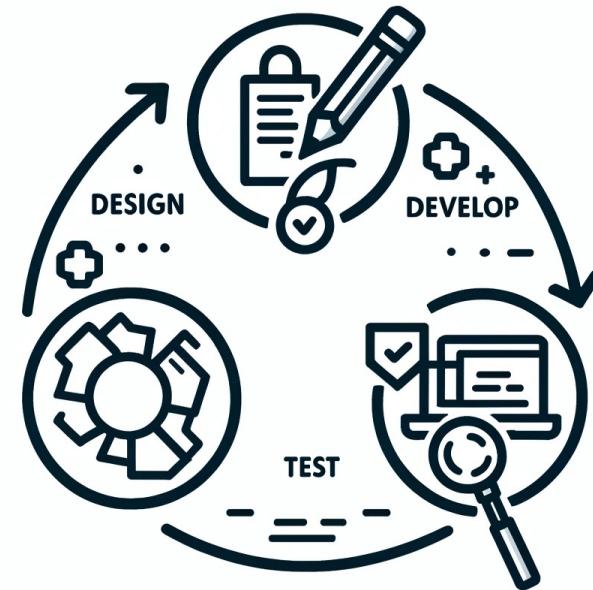
METHODOLOGY

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METHODOLOGY

- **Agile Kitchen:** Cooking Up a Storm
- **Agile Methodology Adoption:**
 - ◊ Development likened to preparing a complex dish, with sprints as cooking sessions.
 - ◊ Features developed and tested iteratively to meet user expectations.



METHODOLOGY

- ◆ **Initial Stages (Sprints 1 & 2):**

- ◆ Focus on design, mockups, and user stories for essential pages (Homepage, Login/Registration).
- ◆ Rapid prototyping and user feedback drive early iterations, emphasizing core functionalities and backend integration.

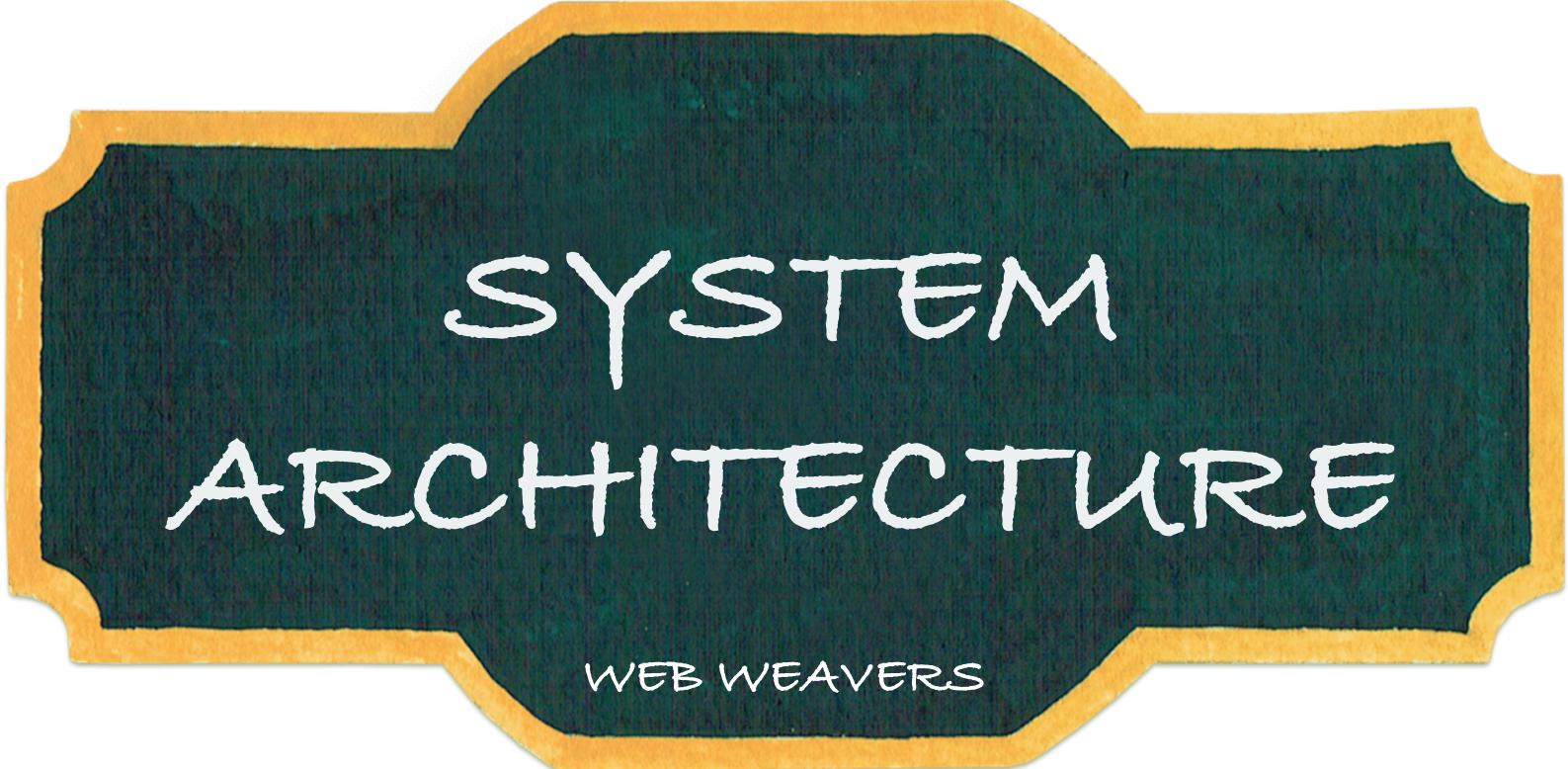
- ◆ **Mid-Project Evolution (Sprints 3 & 4):**

- ◆ Enhanced search functionalities and UI/UX refinements based on user feedback.
- ◆ Optimization phase critical for preparing a functional and appealing MVP.

- ◆ **Final Push (Sprint 5):**

- ◆ Dedicated to exhaustive testing, deployment, and performance monitoring.
- ◆ Ensured the platform was polished, user-friendly, and launch-ready, with ongoing assessments for future enhancements.



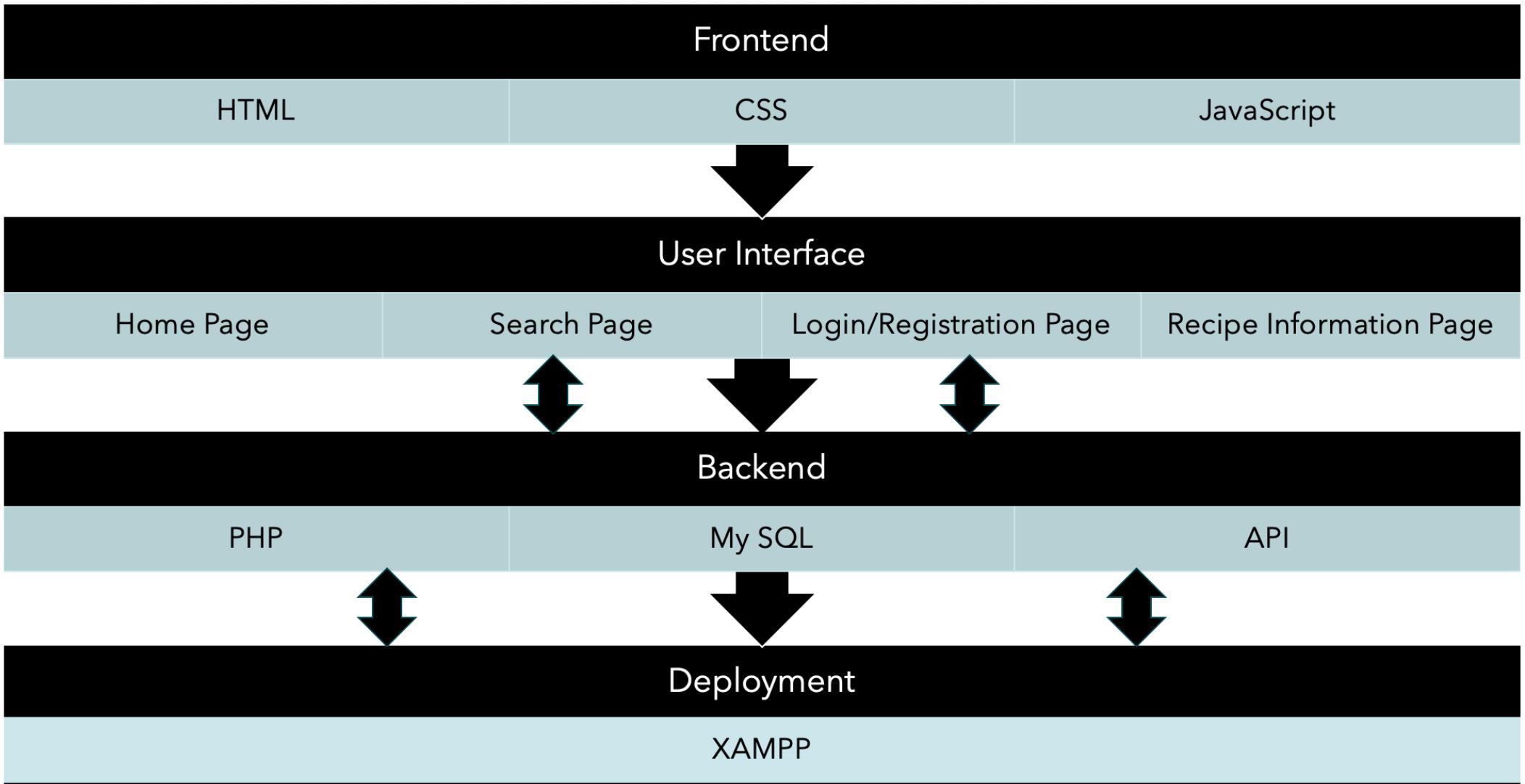


SYSTEM ARCHITECTURE

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SYSTEM ARCHITECTURE



FRONTEND

- ◆ **Frontend Development:**

- ◊ Technologies: HTML, CSS, JavaScript (ES6+)

- ◆ **Functionality in Cookbook Compass:**

- ◊ Frontend combines HTML, CSS, and JavaScript for structure, style, and interactivity, respectively.
 - ◊ Ensures accessibility and responsiveness for a seamless experience across all devices.
 - ◊ Dynamic interactivity enabled through JavaScript for user inputs, form submissions, and content loading.
 - ◊ Delivers an engaging and intuitive user experience, making the website accessible and enjoyable for everyone.



BACKEND

- ◆ **Backend Processing with PHP:**

- ◊ Technology: PHP

- ◆ **Functionality in Cookbook Compass:**

- ◊ PHP is utilized for critical user authentication and data validation tasks.
 - ◊ Validates login and registration information against MySQL database entries.
 - ◊ Manages secure user sessions and form submissions for registration and login.
 - ◊ Implements encryption for user passwords before storing in the database.
 - ◊ Ensures a secure and reliable user authentication process.



DATABASE

- ♦ **Database Management with MySQL:**

- ◊ System: MySQL

- ♦ **Functionality in Cookbook Compass:**

- ◊ MySQL database stores user registration details: usernames, hashed passwords, email addresses.
 - ◊ Acts as a secure repository for PHP backend to authenticate users and register new ones.
 - ◊ Structured database ensures efficient data retrieval and storage.
 - ◊ Safeguards user credentials through secure management practices.
 - ◊ Facilitates a reliable and swift user authentication and registration process.

#	Name	Type
1	id 	int(11)
2	username	varchar(255)
3	email	varchar(255)
4	password	varchar(255)



API INTEGRATION

- ♦ **API Integration:**

- ◊ Role: Extends the website's functionality

- ♦ **Functionality in Cookbook Compass:**

- ◊ PHP and MySQL focus on user functionalities, while external APIs manage recipe data.
- ◊ APIs provide ingredients, instructions, and images for a wide range of recipes.
- ◊ Integration allows access to a vast recipe selection without local database storage.
- ◊ Enhances the platform's content variety and user experience by leveraging external resources.
- ◊ Streamlines recipe content updates and maintenance through API connections



LOCAL HOSTING

- ♦ **Local System Hosting:**

- ◊ Environment: Development and testing phase

- ♦ **Functionality in Cookbook Compass:**

- ◊ Local hosting with tools like XAMPP supports development and testing of Cookbook Compass.
 - ◊ Simulates a live server environment for accurate feature development and testing.
 - ◊ Enables pre-live debugging and functionality testing in a controlled setting.
 - ◊ Enhances the reliability and performance of the website before it goes live.
 - ◊ Streamlines the transition from development to live deployment.



REQUIREMENTS

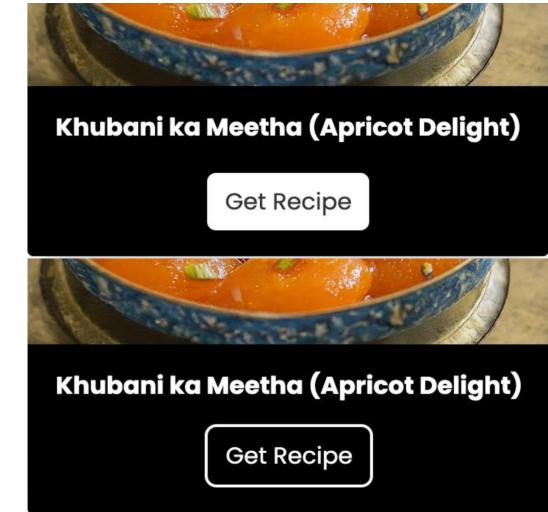
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USER EXPERIENCE AND DESIGN

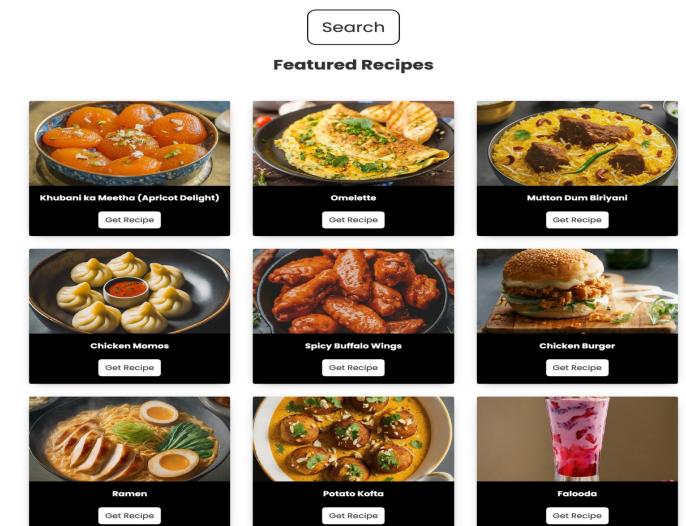
◆ Requirements Addressed:

- ◊ Responsive design for seamless experience across devices.
- ◊ Image embedding, including thumbnails that correspond to full-sized images with captions.
- ◊ Featured recipes on the Home Page to attract users.



◆ Design Integration & Technical Solutions:

- ◊ Responsive Design: Utilizes CSS media queries and flexible grid layouts, ensuring accessibility and a positive user experience across a range of devices.
- ◊ Image Handling: Embeds thumbnails with HTML and CSS for interactivity, expanding to full-sized images upon user interaction, enriching the site's visual appeal.



USER REGISTRATION AND LOGIN

- ◆ **Requirements Addressed:**

- ◆ Secure user registration and login process.
- ◆ Encrypted password storage.
- ◆ Form validation with immediate error messaging for incorrect email formats or passwords.
- ◆ Ensuring all required fields are filled before submission.

- ◆ **Design Integration & Technical Solutions:**

- ◆ **Security Measures:** Leverages PHP for backend validation, encrypting passwords before storage in MySQL, and JavaScript for front-end validation, enhancing site security and user trust.

localhost says

Error: Password should be at least 8 characters long.

OK

The image shows three separate screenshots of a "Login" page from a web application. Each screenshot has a yellow header bar with "Home" and "Login" links. The first screenshot shows an empty password field with a tooltip "Please fill out this field.". The second screenshot shows an invalid email address "test123@" with a tooltip "Please enter a part following '@'. 'test123@' is incomplete.". The third screenshot shows a valid email address "test123" with a tooltip "Please include an '@' in the email address. 'test123' is missing an '@'." All three screenshots show a blue "Login" button at the bottom and a link "No account? Sign up here." below it.

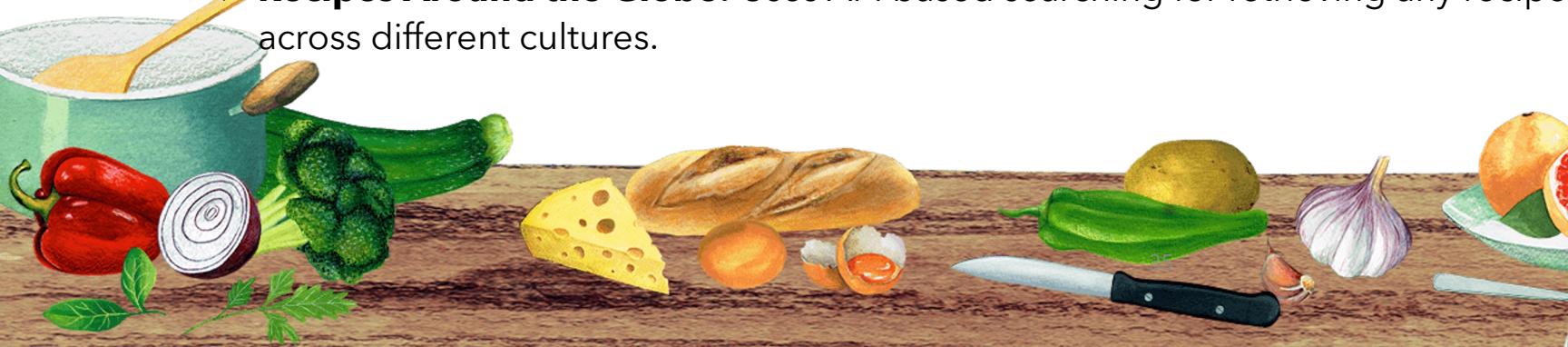
CONTENT SEARCH

- ◆ Requirements Addressed:

- ◆ Efficient search functionality for recipes.
- ◆ Grid/list display of search results with detailed recipe cards.
- ◆ Displaying a "No Results Found" message for unsuccessful searches.
- ◆ Intuitive navigation from the Home Page to the Search Results Page upon login.

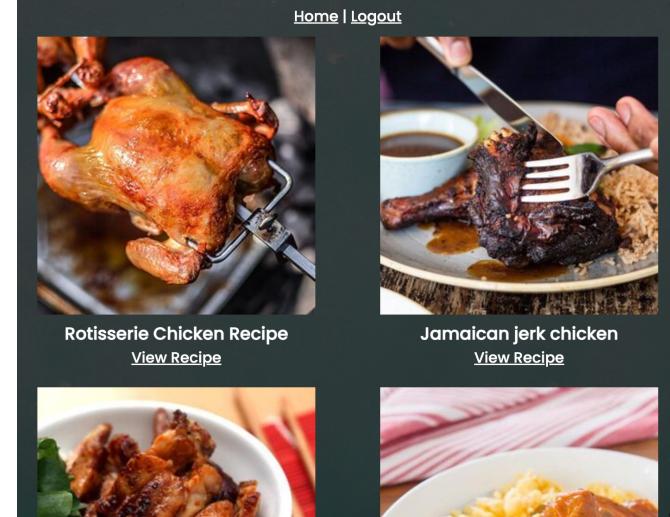
- ◆ Design Integration & Technical Solutions:

- ◆ **Search Functionality:** Implements JavaScript for dynamic search experiences, and HTML/CSS for aesthetically presenting results, offering an engaging user journey. It also displays a message in case the search query cannot be retrieved.
- ◆ **Recipes Around the Globe:** Uses API based searching for retrieving any recipe across different cultures.



Cookbook Compass

Search for any recipe you want!

Cookbook Compass

Search for any recipe you want!

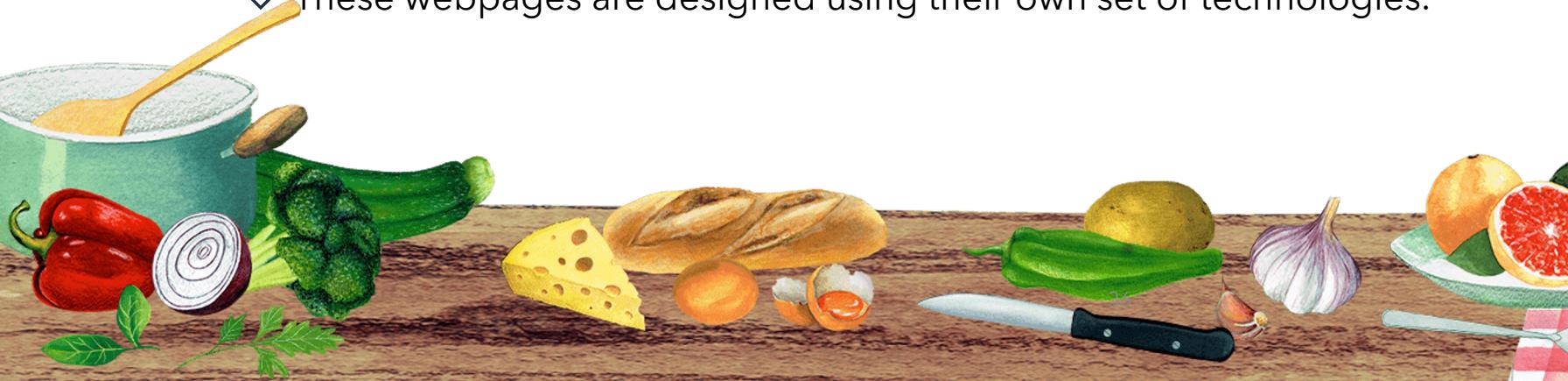
RECIPE INFORMATION

- ◆ **Requirements Addressed:**

- ◆ Detailed recipe pages with images, ingredients, and step-by-step instructions.
- ◆ Optional to include video tutorials for recipes.

- ◆ **Design Integration & Technical Solutions:**

- ◆ Third-party webpages are opened on clicking the search results. They contain all the information required to prepare the dish.
- ◆ These webpages are designed using their own set of technologies.



RECIPE

PRINT SAVE IT

French Omelette

PREP TIME 3 mins	COOK TIME 5 mins	TOTAL TIME 8 mins
SERVING 1 serving		

Ingredients

- 3 large eggs
- Pinch salt
- Pinch white pepper
- 1 tablespoon unsalted butter
- Finely chopped chives or parsley, for garnish

Create a List

Make a list for the store or order online.

ADD TO SHOPPING LIST

Method

1. Beat the eggs:

In a medium bowl, whisk the eggs until no traces of white remain. Whisk in the salt and white pepper.

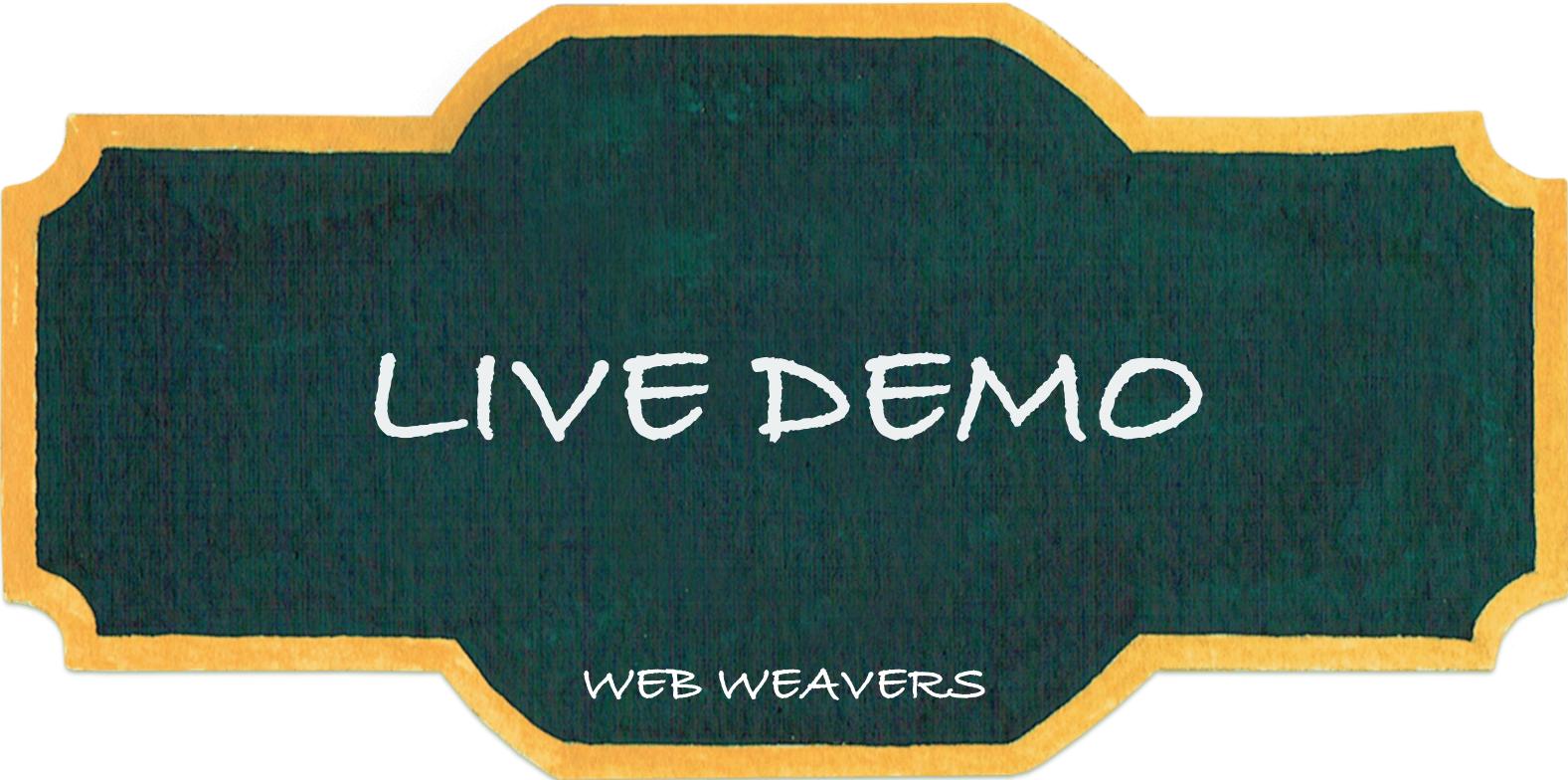


Image: Sally Vargas / Simply Recipes

2. Melt the butter:

In an 8-inch nonstick skillet with rounded sides set over medium heat, melt the butter, being careful not to let it brown. Swirl it around in the pan so it coats the bottom and sides.





LIVE DEMO

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FUTURE SCOPE

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FUTURE SCOPE

- ◆ **Fix Backlogged issues:**

- ◆ There are a few minor issues that do not affect the core functionality of the application. They need to be fixed in the next sprint.

- ◆ **UI/UX Improvements:**

- ◆ The webpage appear too bland. Beautify to attract more users.

- ◆ **Monetary Element:**

- ◆ Pay for special recipes and search access.

- ◆ **Social Improvements:**

- ◆ Like, share, subscribe to recipes

- ◆ **Recipe Submission:**

- ◆ Ability to submit your own recipes



CONCLUSION

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CONCLUSION

- ◆ **Created a project from scratch:**
 - ◊ Built a recipe search website with login functionality from ground up.
- ◆ **Learnt and implemented new technologies:**
 - ◊ Learnt basics of HTML, CSS, Java script, PHP, MySQL.
 - ◊ Implemented what we learnt as part of the project.
- ◆ **Worked as part of a team to engineer software:**
 - ◊ Collaborated as a team of 4.
 - ◊ Regular meetings & dividing tasks.
- ◆ **Software Engineering:**
 - ◊ Developed an application from start to finish.
 - ◊ Implemented software development approaches learnt during the course.





ANY QUESTIONS?

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THE END

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