Final Project for SW Engineering Class

CSC 648-848 Section 04 Fall 2020

Team Number: 01

Application Name: Kitchen Magician

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Product URL:

https://www.allensun623.com/

Milestone 5

History Table

Version	Date
M5V1	12/17/20
M4V2	12/17/20
M4V1	12/10/2020
M3V2	11/20/2020
M3V1	11/19/2020
M2V2	11/18/2020
M2V1	11/01/2020
M1V2	10/08/2020
M1V1	10/01/2020

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Section 1: Product Summary

Product Name: Kitchen Magician
Priority 1 Functions:

1. Anyone can register for an account.
2. To register for an account, an email address to identify the account must be provided.
3. To register for an account, a password to be associated with the account must be provided.
4. With the exception of recipe creation, recipe commenting feature, group joining, and participation in the group forum, all remaining features are available and accessible to unregistered users via links in the navigation bar and the footer.
5. Specifically, all users, whether associated with a registered account, are able to conduct recipe search and view all available results, including those accessible from the trending recipe feature on the product home page.
6. Registered users can log in using their email address and associated password to access features available only to registered users, namely recipe creation, recipe commenting feature, group joining, and participation in the group forum, in addition to features available to anyone.
7. Registered users can only register one account per email address.
8. Registered users can both favor and comment on a recipe.
9. Registered users can log in using their username and password.
10. Profile pages of registered users serve as a portal through which the particular registered user can view and access recipes which they have favored, and to create their new recipes.
11. Registered users are able to view and join existing food groups, and group membership grants access to the group forum, where comments can be made.
12. Registered users with administrative privilege, in addition to all features aforementioned, have access to the administration page, where administrative functions are accessible.
13. Administrative users are able to delete any comment, recipe or group.
14. All recipes are complete with recipe title, the categories through which the recipes can be filtered, ingredient listing, relevant instructions, and a recipe photo.
15. Recipes will all have a title, multiple categories to filter them and provide detail, multiple ingredients, multiple steps, and maybe a photo.
16. Recipes which ranked in the top five favorite recipes are showcased in the trending recipe feature on the home page.

What is unique in our product: What makes our product unique is that our recipes are curated not only by professional chefs, but also by average users who have been making their signature recipes for generations: a sense of equality has been strongly emphasized. Professional chefs are masters of their craft, but our product aims to inspire both originality and authenticity. How many times have you seen an Italian mortified at the sight of an Americanized carbonara,

or a Spaniard with a paella. Sometimes, the real professionals are people like you, who may not have fancy titles, but whose work faithfully follows an ageless tradition: someone who has been making their family recipe the traditional way as long as they can remember. Anyone will be able to register for an account, and join our community to showcase the meaning of authentic recipes to them. Five most popular recipes voted by our community will also be showcased on the homepage, as a non monetary motivator. For those who are even more passionate, they can join food groups to have in-depth discussions on just about anything which is food-related. Our website is built on an interactive community. Our website is driven by a selected group: everyone.

Section 2: Milestone Documents

Kitchen Magician

SW Engineering CSC648/848

FALL 2020

Team 01

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Milestone 1

History Table

Version	Date
M1V2	10/08/2020

M1V1	10/01/2020

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Section 1: Executive Summary

What do you do when you are hungry but you are just too tired to go out to grab a bite? Or maybe you simply feel it is safer to stay inside, away from all the germs and bacteria that is out there? For most of us, we are left with two choices. Order delivery or make our own. Ordering food can frequently be a toss up though. Sometimes, your food will arrive late and it will be cold and displeasing. Other times, the wrong food was delivered, or items were missing. Therefore, making your own food at home seems like a great alternative. Not only is it often cheaper than eating out, it is also safer because not only do you not have to interact with a lot of people, you also know exactly what has gone into the food that you are making. No artificial additives or preservatives to be seen! In addition, not many locations cater to particular diets: Vegan, Keto, Gluten Free, Vegetarian, etc. It's always awkward to be excited for a dish only to discover that it does not conform to your own dietary needs. Making your own food just makes more sense. However, not many people have recipes off the top of their head, and even fewer have actual experience in the kitchen. This is where we come in.

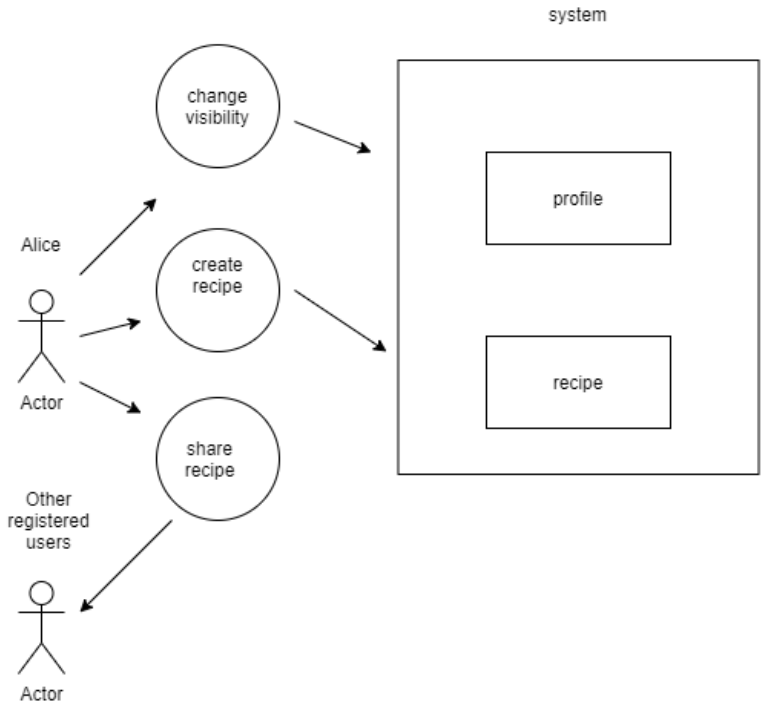
Kitchen Magician is an online community that provides users with novel, original recipes created by their peers. Users will have access to a plethora of different recipes to suit their individualistic, even idiosyncratic, needs. They will be able to search up a specific range of recipes based on any criteria that they can provide. Those criteria can range from things like specific ingredients, meal preference, special diet, and more. Users will be able to provide as much, or as little, information as they want, and in a matter of seconds, they will be given recipes to tinker with. No matter what your needs are, Kitchen Magician has you covered. If not, make a suggestion, and we may just add it for you!

However, one thing that we noticed was how other websites offering a similar service to us have most, if not all, of their recipes made by “professionals”. And while our website also has recipes made by professionals, we also wanted to do something different. Some of those professionals tend to compromise authenticity in their recipes. You might have heard of several controversies regarding the Spanish Paella or the Roman Carbonara. Here, we have recipes that are original and novel. We encourage everyone to share your versions of existing recipes: one size does not fit all. It is not uncommon to find homemade recipes that are equal or, oftentimes, more delicious than those you would find in restaurants. In addition, as a community, we encourage users to share their opinions and to rate recipes. Rating a recipe gives the chef and every other user an idea of what others thought of the recipe. Who know, you might be the next Gordon Ramsey, fostered right here on our Kitchen Magician!

Section 2: Main Use Cases

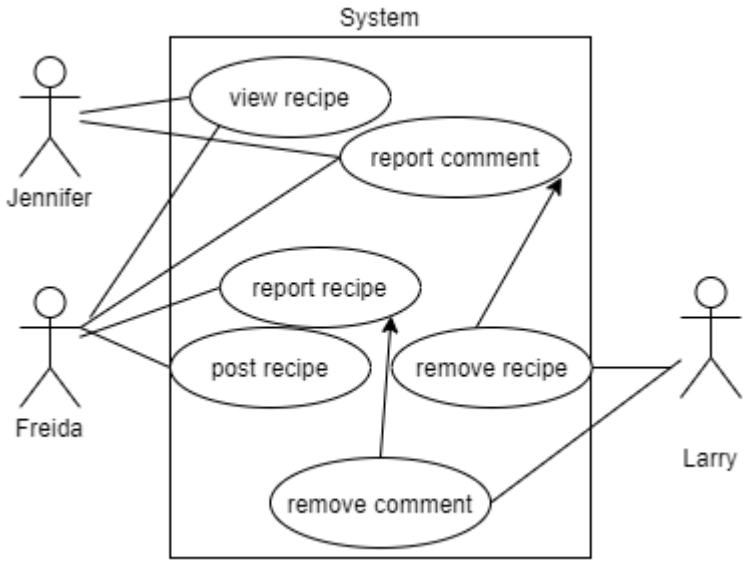
Use Case: Registered User: Alice

Alice is a privacy-centric young woman who aspires to be a chef with minimum computer knowledge. She has always enjoyed cooking ever since she was a young girl. She often records her new creations in a notebook in her bag. Recently, Alice left the farm on which she was raised, and moved to a distant city--because she wanted a change of life. Her new city friends have been, however, pleasantly surprised by Alice's wonderful cooking, and they have consequently encouraged Alice to share her recipes in an online community, where everyone can learn from one another. They recommend a community site because they know creating a site on Alice's own would be too difficult for her, and because they know that sense of community is very important in Alice's upbringing. Timid she has always been but could not resist her friends passionate encouragement. Alice finally decided to share her recipes, if she can somehow remain as anonymous as possible. She is looking for a site that lets her post recipes for free to other users in the community, while maintaining a minimum online presence. Naturally, a sense of community necessitates that all users have a registered account. After she has registered for an account, she sets all of her profile information to private except for her creation date. Her profile now just displays her screen name, account creation date, and number of public and private recipes. Alice is excited to start her journey on Kitchen Magician.



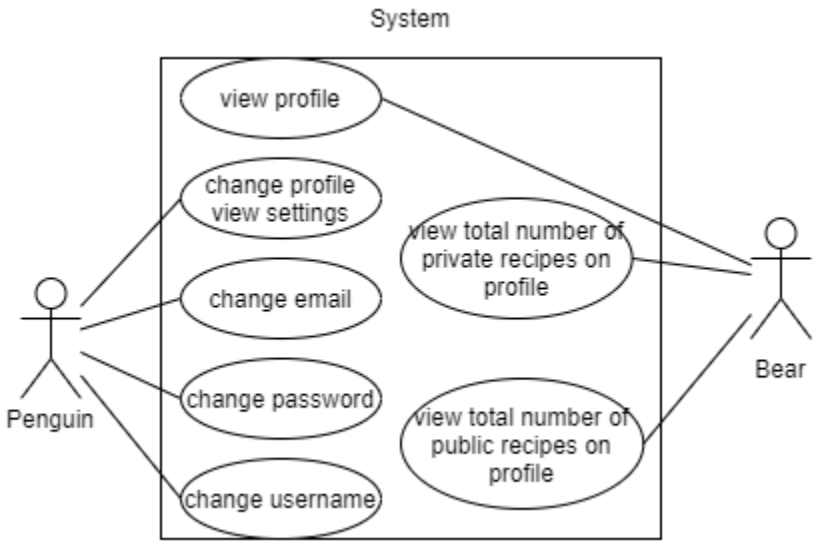
Use Case: Admin: Larry, General User: Jennifer, Registered User: Freida

Jennifer was browsing one of the featured recipes on the Kitchen Magician's front page and noticed an inappropriate comment. Jennifer reports the comment to the website admin through the report button. Freida who uploaded the featured recipe also sees the inappropriate comment and reports it the same way as general user. Frieda is surprised at the maturity of the comment since she agreed to a code of conduct before being able to create her account. Larry sees the reported comment and is able to remove it from the comment section. After seeing the inappropriate comment, Freida browsed the other featured recipes and noticed that one of the recipes was an exact copy from a family recipe she had posted a couple years ago. She reports the duplicate recipe using the report button on the recipe's page. Larry reviews this report and later removes the recipe from the featured page as stolen content.



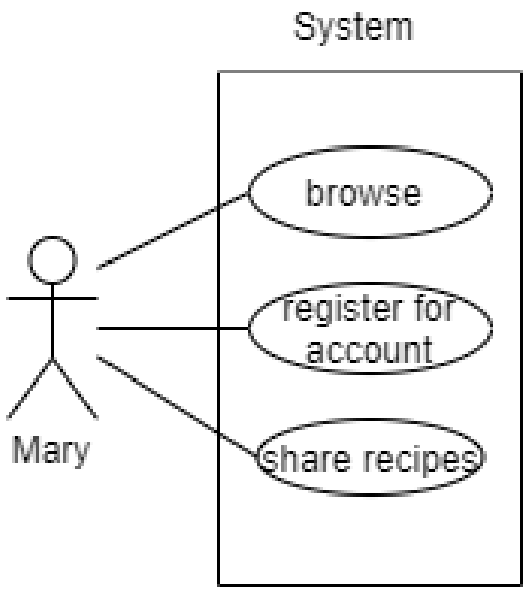
Use Case: Admin: Bear, Registered User: Penguin

Registered user Penguin wants to edit his profile so that his personal information is publicly accessible. He is able to change the view settings for each detail accordingly. He feels relieved that his private information is no longer revealed without his expressed consent. He also noticed that he can update his email and password. Penguin decides to update his old email to his current email. He is happy that it is easy to update account and profile information. Penguin was curious about other members on the website, so he decided to go to the front to look at the profiles of who posted the featured recipes. He noticed that one of the trending recipes was published by an admin, Bear, and went to his profile page to learn more about him. Bear's profile is mostly private, but Penguin was able to see his creation date and was surprised to see that he created his profile five years ago. Penguin is also able to see the Bear's number of private and public recipes and was shocked. Bear has been very involved in the Kitchen Magician community from the time of his account creation date and Penguin realizes that is probably why he has the role as an admin.



Use Case: General User: Mary

Mary is a middle-aged woman trying to figure out what to cook for her dinner party on Friday. She invited her close group of girlfriends for a little reunion. She goes on the community site to look for ideas, so everyone can enjoy a great dinner. She is able to browse freely on the website without the need of registering for an account. She could also share them by emailing her friends. However, she notices that she isn't able to comment or rate a recipe unless she has an account and is logged in. Mary appreciates the simple interface of the website and loves how organized it is. The trending recipes on the home page give her new ideas for future dinner plans. She enjoys using the website so much that she decides to create an account. She entered her email, verified her password, created a unique username, and verified her email after creating the account.

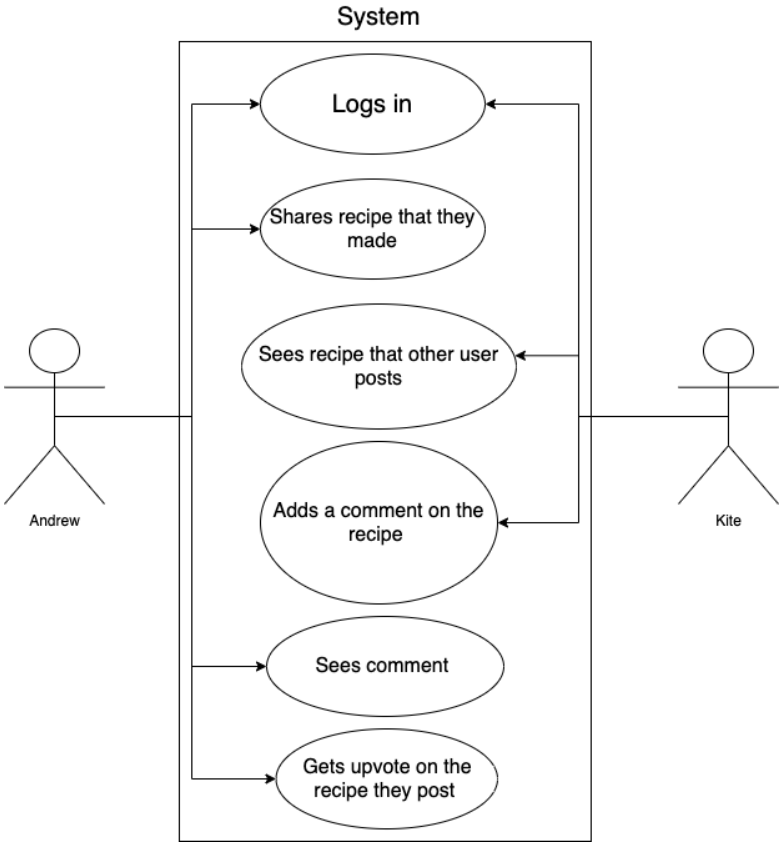


Use Case: General User: Kite

Kite has taken the lockdown as an opportunity to lose weight. He constantly works out, but he doesn’t eat well. Kite doesn't see a change so he decides to visit the website “Kitchen Magician” that a friend recommended to help him so he can eat healthier. Kite has trouble finding places to eat because he is a Vegan. When he is on the “Kitchen Magician” he notices he is able to filter his search. Since Kite hasn’t had any time to go out, his main focus is what he eats so he has time to prepare meals and read over recipes.

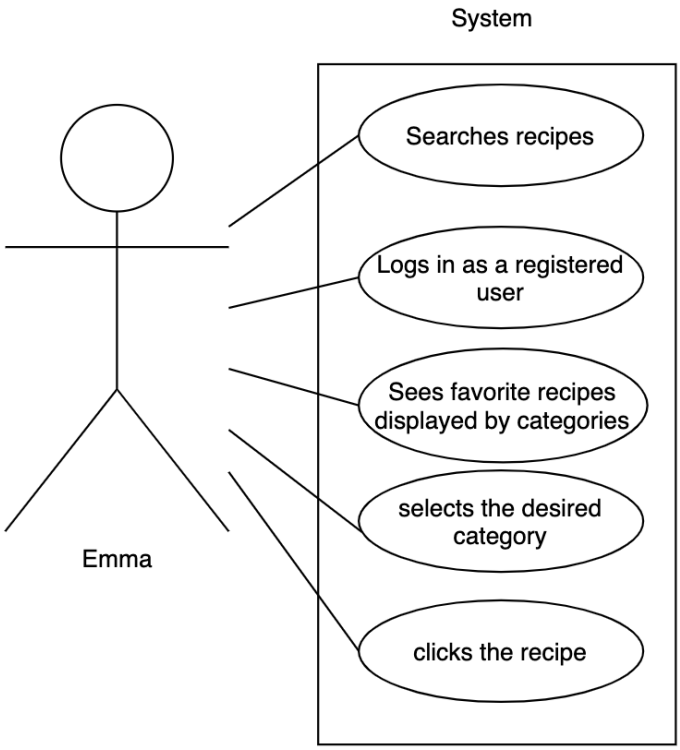
Registered User: Andrew

Andrew, who posted the recipe, logs in and decides to post a recipe for a healthy diet to lose weight. Andrew is a health nutritionist who also has been through weight struggles so he constantly posts to help others. As he sees many people upvoting his recipes, Andrew continues to add them so other users become knowledgeable in healthy eating. He notices a user Kite that comments on the recipe and about how the recipe has helped him a lot.



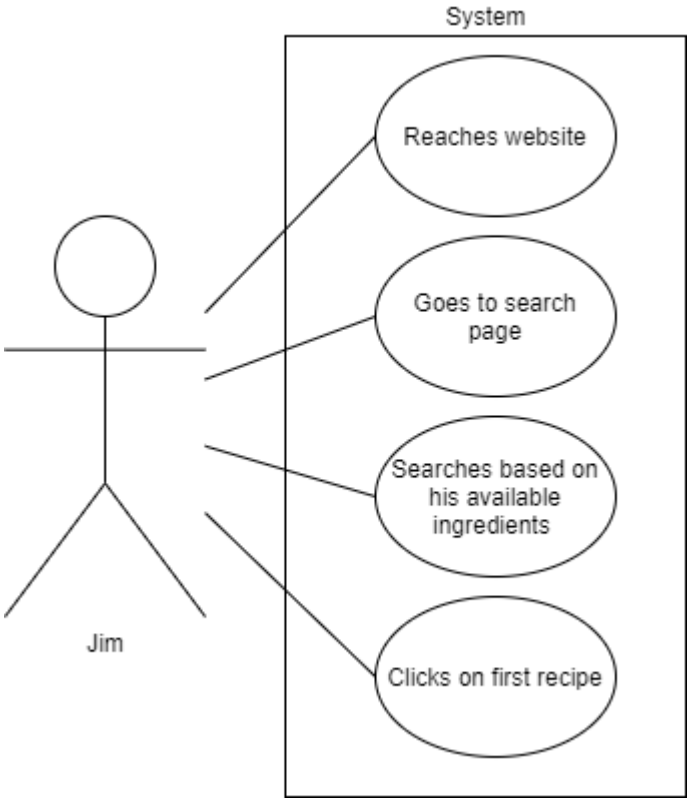
Use Case: General User: Emma

Today is Thanksgiving. Emma bought a turkey yesterday. She wants to make a juicy roasted turkey. She goes to the website, and starts searching turkey related receipts. With the keyword search, Emma found more than 50 related receipts. She cannot find a satisfied one after a thorough browse. All of a sudden, she realizes she has favorited an excellent receipt before in her private list of favorites, so she logs in and views her favorite recipes and access them. She is very glad that she gets the one she was looking for. On the recipe's page she notices that it has various categories like "turkey", "Thanksgiving", and "Fall". Emma clicks the category "Thanksgiving" and more recipes containing the same tag popped up for her to see.



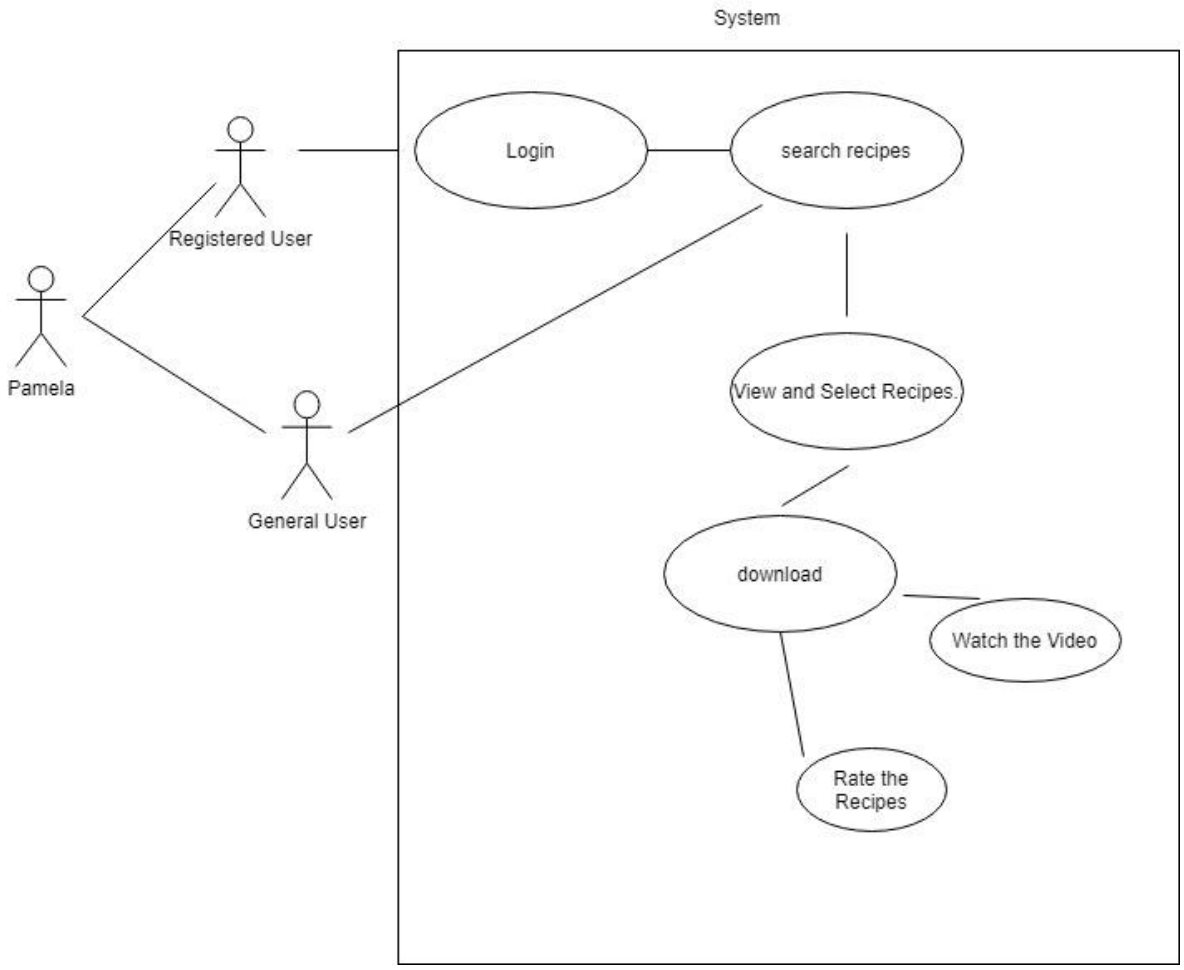
Use Cases: Inebriated or Intoxicated User: Jim

Jim, a 21-year-old college student who lives alone, comes home at 11pm from an evening of drinking with his friends and realizes that he is hungry and does not know what to make. After typing in “recipe website” on Google he clicks on the first option given. He looks to his fridge/pantry and sees the only ingredients he had: chicken, pasta, and tomatoes. Because he is drunk and not at peak performance, he needs the process of finding a recipe to be easy, simple, straightforward and quick. If he goes through too many steps he will get frustrated and will simply just make cup noodles instead. He reaches the website and navigates to the search page and then searches up some of the ingredients that he has. He is prompted by a list of recipes and Jim clicks on the first one. He follows it and is able to make a meal for himself.



Use Cases: General User: Pamela

Pamela, a mother of 4 kids, came back from work and wants to make dinner for her family. After finding out from her family of six what they wanted for dinner, she concluded that she needs to make fried rice for eight people. She visited our website to search for recipes to make fried rice for her family of six. When she finds the recipes she likes, she would like to download the recipes, and follow it step by step to make dinner for her family of six. When she is done cooking, she would like to rate the recipes on whether it works well for her or not.

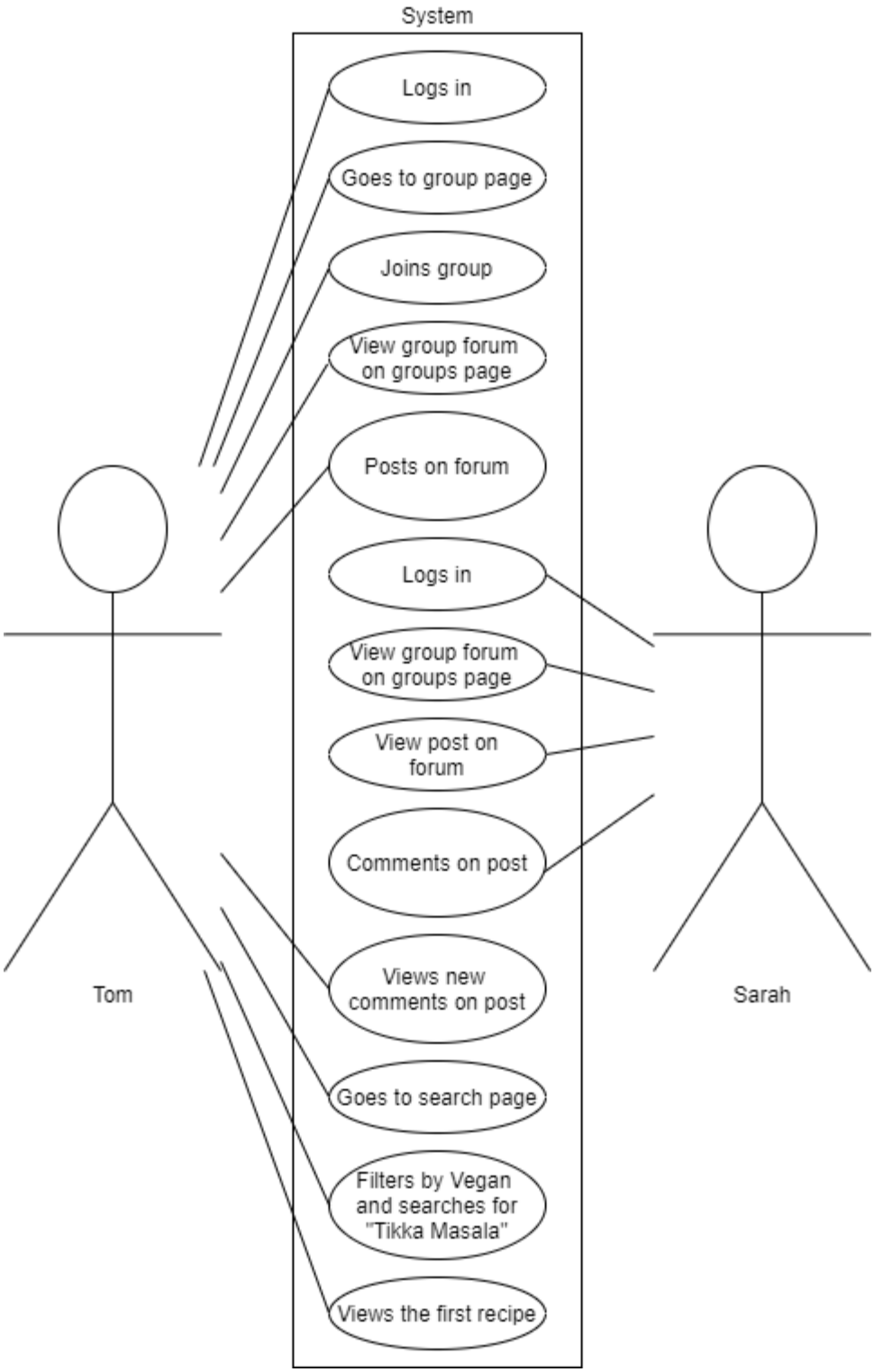


Use Cases: Registered User: Tom, Registered User: Sarah

Tom is a college student who is trying out that new vegan life for himself and is worried that he might not be doing everything he can up to that high vegan standard that everyone knows about. He wants to get information about what foods are vegan and if some of his favorite foods can be made vegan friendly. He logs in and goes to the groups page, finds the vegan group, and joins it. He then goes to the Vegan group page and sees a forum where group members can post and ask questions. Tom creates a post in the group forum asking if his favorite dish, chicken tikka masala, can be recreated vegan in some way. After half an hour, Tom checks back on the group forum and notices a reply comment from Sarah who is also in the Vegan group. Sarah explains to Tom that he would need to leave out the chicken or use a plant based alternative. Tom breathes a sigh of relief, as he can somewhat enjoy his favorite dish in some capacity. He then goes to the search page and filters by vegan and searches for tikka masala. He views the first recipe on the list and decides to use it for the night's dinner.

Registered User: Sarah

Sarah has been a vegan for nearly over five years and is no stranger to giving other people ideas for vegan alternatives to meat based dishes. She logs in and goes to the Vegan group page and sees the most recent post by Tom asking if chicken tikka masala can be made vegan. Because she has tried to do the same before and succeeded, she comments on the post that it can, although the chicken would need to be replaced by something more vegan friendly. The vegan chicken tikka masala gained a lot of attention from the users in the vegan group and was upvoted so much, it appeared on the featured recipes on the home page.


System
Logs in
Goes to group page
Joins group
View group forum on groups page
Posts on forum
Logs in
View group forum on groups page
View post on forum
Comments on post
Views new comments on post
Goes to search page
Filters by Vegan and searches for "Tikka Masala"
Views the first recipe
Tom
Sarah

Section 3: List of Main Data Items and Entities

General User: Can only access available recipes and user profiles. Does not need to log in/register.

Registered User: Can access available recipes and user profiles, but also can create recipes, give ratings, post comments on recipes, edit own user profile, and join groups. Needs to login/register.

Group User: Can access available recipes and user profiles, but also can create recipes, give ratings, post comments on recipes and select group forums, edit own user profile, and join more groups. Needs to login/register.

Admin: Can access all data and content, including comments, and modify the database. Needs to login/register.

Profile: Viewable to anybody, editable only to the registered user the profile pertains to. Contains settings only available to the registered user, personal information that they decide to show, given ratings, comments, and published recipes.

Recipe: Ingredients, description, instructions, picture (0 or more), video (0 or 1), can be labeled as trending based on rating

Rating: Upvote or downvote both recipes and comments

Comment: Text left by registered users

Search Page: Viewable to anybody, contains options of descriptive words, categories, diets, etc used to describe and categorize recipes during search.

Search: Conducted on the Search Page, returns a list of recipes according to search input

Group: Any number of registered users who are linked together via a common search term. Registered users who are a part of a group have access to the select group page.

Section 4: Initial List of Functional Requirements

General User:

1. General User shall be able to register for an account.
2. General User shall register for an account using a registration form.
3. General User shall provide an email when registering for an account.
4. General User shall provide an username during registration
5. General User shall verify the email used to register for the account is valid.
6. General User shall verify the password when registering for an account.
7. General User shall see a navigation bar on all pages.
8. General User shall see a counter for the total number of registered users on the home page.
9. General User shall be able to search for recipes at the search page.
10. General User shall be able to view recipes.
11. General User shall be able to view a Registered User's profile.
12. General User shall be able to share a recipe by email.
13. General User shall be able to download a recipe.

Registered User:

14. Registered User shall be able to log in with a valid username.
15. Registered User shall be able to log in with a valid password.
16. Registered User shall be able to log out.
17. Registered User shall have only one profile page.
18. Registered User shall be able to change visibility of their profile page.
19. Registered User shall be able to change their password.
20. Registered User shall be able to reset their account password.
21. Registered User shall be able to change the avatar for their profile page from the image database.
22. Registered User shall have an attribute for account creation time at the profile page.
23. Registered User shall see a navigation bar on all pages.
24. Registered User shall be able to search for recipes at the search page.
25. Registered User shall be able to view recipes.
26. Registered User shall be able to create their own recipes.
27. Registered User shall be able to publish their own recipes.
28. Registered User shall be able to edit their own recipes.
29. Registered User shall be able to delete their own recipes.
30. Registered User shall have a counter for their number of public recipes on their profile page.
31. Registered User shall have a counter for their number of private recipes on their profile page.

32. Registered User shall be able to upvote any public recipe.
33. Registered User shall be able downvote any public recipe.
34. Registered User shall be able to add a comment on any public recipe.
35. Registered User shall be able to report a recipe.
36. Registered User shall be able to report a comment.
37. Registered User shall be able to share a recipe by email.
38. Registered User shall be able to favorite a recipe.
39. Registered User shall be able to download a recipe.
40. Registered User shall be able to view existing groups.
41. Registered User shall be able to join a group.

Admin:

42. Admin shall be able to log in with a username.
43. Admin shall be able to log in with a password.
44. Admin shall be able to log out.
45. Admin shall have a profile page.
46. Admin shall be able to change visibility of their profile page.
47. Admin shall be able to change their password
48. Admin shall be able to reset account password at the profile page
49. Admin shall be able to change the avatar for their profile page from the image database.
50. Admin shall have an attribute for account creation time at their profile page.
51. Admin users shall see a navigation bar on all pages.
52. Admin shall see a counter for the number of registered users, where appropriate.
53. Admin shall be able to search for recipes.
54. Admin shall be able to view recipes.
55. Admin shall be able to publish their own recipes.
56. Admin shall be able to change contents of their own recipes.
57. Admin shall be able to delete any public recipes.
58. Admin shall have a counter for their number of public recipes on their profile page.
59. Admin shall have a counter for their number of private recipes on their profile page.
60. Admin shall be able to upvote any public recipe.
61. Admin shall be able downvote any public recipe.
62. Admin shall be able to add a comment on any public recipe.
63. Admin shall be able to delete any comment on any public recipe.
64. Admin shall be able to favorite a recipe.
65. Admin shall be able to download a recipe.
66. Admin shall be able to create a group.
67. Admin shall be able to delete a group.
68. Admin shall be able to reset password for users.
69. Admin shall be able to join a group.

70. Admin shall be able to delete messages from the group forum.

Recipe:

71. A recipe shall be made private or public.
72. A recipe shall have a title.
73. A recipe shall have one or more recipe categories to be added for search.
74. A recipe shall have one or more keywords to be added for search.
75. A recipe shall have serving size information to be added for search.
76. A recipe shall have estimated costs to be added for search.
77. A recipe shall have estimated time required to finish the recipe to be added for search.
78. A recipe shall have one or more ingredients to be added for search.
79. A recipe shall have one or more directions on how to finish the recipe.
80. A recipe should add zero or more photos.
81. A recipe should add zero or only one video.
82. A recipe shall be labeled trending when it is the recipe with the most upvote ratings
83. Only a public recipe shall be visible when searched for.

Group User:

84. Group User shall be able to view the forum.
85. Group User shall be able to search for recipes.
86. Group User shall be able to post to the forum.
87. Group User shall be able to comment on the forum.
88. Group User shall be able to change visibility of their profile page.
89. Group User shall be able to change their password at the profile page
90. Group User shall be able to reset account password
91. Group User shall be able to log out
92. Group User shall be able to change the avatar for their profile page from the image database.
93. Group User shall have an attribute for account creation time at their profile page
94. Group User users shall see a navigation bar on all pages
95. Group User shall see a counter for the number of registered users, where appropriate
96. Group User shall be able to search for recipes
97. Group User shall be able to view recipes
98. Group User shall be able to publish their own recipes
99. Group User shall be able to change contents of their own recipes
100. Group User shall be able to delete any public recipes
101. Group User shall have a counter for their number of public recipes on their profile page.

102. Group User shall have a counter for their number of private recipes on their profile page.
103. Group User shall be able to upvote any public recipe.
104. Group User shall be able to add a comment on any public recipe.
105. Group User shall be able to delete any comment on any public recipe.
106. Group User shall be able to favorite a recipe.
107. Group User shall be able to download a recipe.
108. Group User shall be able to create a group.
109. Group User shall be able to delete a group.

Section 5: List of Non-functional requirements

System requirements:

1. The application must have one unified system for search, with all fields searchable.
2. Search shall be able to be filtered by username.
3. Search shall be able to be filtered by recipe keywords.
4. Search shall be able to be filtered by recipe categories.
5. Search shall be able to be filtered by recipe by estimated total preparation time.
6. Search shall be able to be filtered by recipe ingredients.
7. The application shall provide the ability to specify multiple operands and operators for a search.
8. The application registration interface must be keyboard accessible.
9. The application registration interface must allow users to tab to the next entry field.
10. The system should be organised in such a way that user errors are minimised.
11. The application system shall have an admin page.
12. The application system shall have a login page.
13. The application system shall have a registration page.
14. The application system shall have a general recipe page.
15. The application system shall have a general community page.
16. The application system shall have a user profile page.
17. The application system shall have an about page.
18. All pages shall have a header on the top.
19. The header shall contain a logo.
20. The header shall contain a search input.
21. All pages shall have a footer on the bottom.
22. The footer shall contain a statement of copyright.
23. The system shall give users the option to print the recipes.
24. The system shall provide a means of representing external files.
25. The system shall provide a means of accessing external files.
26. The system shall give users the option to download the recipes.
27. The system shall give users the option to download recipes in pdf format
28. The system shall give users the option to download recipes in jpeg format.
29. When the public user accesses the system, the pages displayed shall be rendered without failing to display the pages consistently across all identified browsers.
30. The user interface of the system shall be compatible with Chrome 85.0.4183.121 and later.
31. The user interface of the system shall be compatible with Safari Mac os X 10.5 and later.
32. The user interface of the system shall be compatible with Firefox 81.0.1 and later.
33. All content shall be displayed error-free, e.g., without conflicts, overlapping, or other performance errors.

34. Each page must have an official logo of the application.
35. The application system shall return to the home page in case of error loading of the page.

Performance requirements:

1. The system shall be able to handle up to 1000 concurrent users when satisfying all their requirements.
2. The system shall be able to handle up to 2500 concurrent users with browsing capabilities.
3. The system shall display content with the smallest delay possible, and scale to handle dozens of thousands of new users.
4. When a user clicks any links in the navigation bar, the route should take less than 2 seconds.
5. Time it takes for the user profile page to load after login shall be less than 2 seconds.
6. 80% of searches shall return results in less than 3 seconds.
7. Each image shall be loaded within 2 seconds.
8. Any recipe page with video shall be loaded within 2 seconds.
9. Any recipe page without video shall be loaded within 3 seconds.
10. Any community page shall be loaded within 3 seconds.
11. It shall be less than 2 seconds to start to play a video after a user clicks to play it.

Storage requirements

1. URLs must be unique in the repository
2. The application must allow users to delete all their content (recipes, comments, custom post types), their profiles, and all associated user account information.
3. All config data stored in XML.
4. Data stored in a MySQL database.
5. All components shall leverage existing, central dataset/databases.
6. The admin user shall be about to interact with the database through a web interface.

Security requirements

1. The system shall validate all user input to ensure it does not exceed the size specified for that type of input.
2. The server shall authenticate every request accessing the restricted web pages.
3. The system shall have security controls to protect against denial-of-service attacks
4. The system shall encrypt sensitive data entered by users.
5. The system will only accept valid URL requests.
6. The system will SOA web service security standards.
7. The system shall comply with SSE-CMM capability.
8. The system shall allow users the option to change password
9. The system shall give admin access to change users password

10. Every password shall be hashed.
11. Every password shall be stored in the system database.
12. The password will be case sensitive.
13. System should timeout when there is inactivity for 10 minutes.
14. The password shall be at least 6 characters.
15. The password must include at least one number.
16. The password must include at least one special character.
17. The system shall allow authenticated users to access the resources of the system.
18. All authentication tokens shall be saved on a local device for comparison and need user permission to gain access.
19. The system shall ensure the contents of a message are not altered in transit.

Environmental requirements

1. The system shall use an independent Python virtual environment.
2. The system shall use pip3 to install packages in the virtual environment.
3. The virtual environment shall include all necessary packages compatible with the operating system Ubuntu 20.04 LTS.
4. The system shall have a file named requirements.txt to store all packages installed in the virtual environment.
5. The server Apache shall connect to the virtual environment in the master branch.
6. The server Apache shall use the correct path of the virtual environment.
7. The system shall have a Django development environment up and running on local computers for testing.
8. The system shall have a Django development environment up and running on local computers for development.
9. The system shall use the default port, the internal IP at port 8000, for local testing.
10. The system shall use the default port, the internal IP at port 8000, for local development.
11. The system shall use the default port, the internal IP at port 8080, for global testing.
12. The system shall use the default port, the internal IP at port 8080, for global development.
13. The system shall use the port 443 for SSL certification.

Legal requirements

1. Users shall agree to the privacy agreement when registering for an account.
2. The application shall display a copyright notice visible to users at all time.
3. The application shall display the Kitchen Magician policies for users to read and agreed to comply with in accordance with state and federal law.
4. The application shall display the licensing agreements relating to intellectual property rights.
5. Users shall agree to the code of conduct when registering an account.

6. Personalization and data collection processes should comply with the General Data Protection Regulation (GDPR).
7. The website contains links to other websites and it cannot be responsible for the privacy practises of content of other websites.
8. Users shall not use any recipe from the application for commercial purposes without permission from the admin.
9. Users shall comply with business rules and administrative functions as provided by admin.
10. Users shall not use any video from the application for commercial purposes without permission from the admin.
11. Users shall not use any application content for commercial purposes without permission from the admin.

Marketing requirements

1. All commercials shall go through the approval process before posting on the application.
2. Pages shall contain sponsored commercial approved by the admin.
3. Pages shall contain sponsored advertisements approved by the admin.
4. When referencing KitchenMagician in text as a combined word, use camel case, with no space between “Kitchen” and “Magician”.
5. All commercial on the application shall use corporate style guide colors
6. All advertisements on the application shall use font size approved by the admin.
7. All customer facing web pages will use the corporate style guide colors, fonts and corporate approved logos.

Content requirements

1. All pages and files must be current and accurate.
2. The system shall support the appearance of a component being determined by the type of page on which the component appears.
3. The system shall support the appearance of a component being determined by the location on the page on which the component appears.
4. The system shall support the appearance of a component being determined by the content of the component.
5. The system shall support the appearance of a component being determined by the type of the component.
6. The system shall be able to accommodate any image types, and images must be publishable.
7. The system shall be able to accommodate any image types.
8. The application shall always display the logo at a size that is clear and legible.
9. To ensure legibility of KitchenMagician branding, the system shall use the logos with appropriate sizes and not smaller than 24px.

10. Images in the system shall be browsable.
11. Images shall include alt text.
12. Image size shall not exceed 2 Mbytes.
13. Videos shall be captioned and may also include a transcript.
14. Videos shall stop when users leave the content view.
15. Audios shall stop when users leave the content view.
16. All audios shall display with user-controlled captioning.
17. All videos shall display with user-controlled captioning.
18. The application shall ensure audio and video accessible.
19. The date format for recipes shall be as follows: Month Day, Year.
20. The date format for comments shall be as follows: Month Day, Year.

Privacy requirements

1. The system shall protect user information in accordance to the federal government's Privacy Act.
2. The system shall comply with California Consumer Privacy Act.
3. The system shall comply with California Online Privacy Protection Act 2003 (CalOPPA).
4. Users shall agree to the privacy agreement when registering for an account.
5. Users shall agree to the code of conduct when registering for an account.
6. The company is not responsible for images, videos, or any resources posted by users without permission of the copyright holder.
7. The application collects anonymous data from every visitor of the Website to monitor traffic and fix bugs.
8. The application collects log information including a user's Internet Protocol address, browser type, browser language, the date and time of a user's query and one or more cookies that may uniquely identify a user's browser or downloaded software.
9. The application must support authorized users to be able to access, update or delete any comments, receipts, or users.
10. The application will collect user names only if users agree to comply with the company's policy.
11. The application will collect user emails only if users agree to comply with the company's policy
12. The application will collect user address only if users agree to comply with the company's policy
13. The application will collect user birthday only if users agree to comply with the company's policy
14. The application will collect information on users' search history, favorited, and viewed recipes.
15. The application shall not share personal information with any third parties.

16. The application uses all of the information users provide voluntarily in order to make users' visits on the application possible.
17. The application collects information only to add customized elements to the application or to plan its content more appropriately, based on user interests.
18. The application will allow users to delete their own accounts via emailing the requests.

Testing requirements

1. The application shall be tested during deployment to verify that it functions as intended and that all requirements are met.
2. The application shall be tested before deployment to verify that it functions as intended and that all requirements are met.
3. The application shall be tested after deployment to verify that it functions as intended and that all requirements are met.
4. Prior to launch, the applications shall be placed in a testing environment.

Coding Standards

- **File encoding**
    1. All documentation source files must be in UTF-8 encoding.
    2. All documentation source files shall allow special characters.
- **English Syntax**
    1. The application must use proper spelling.
    2. The application must use proper grammar.
    3. The application must use proper punctuation.
- **Indentation**
    1. There must be a space after giving a comma between two function arguments.
    2. Each nested block should be properly indented and spaced.
    3. Proper Indentation should be there at the beginning and at the end of each block in the program.
    4. All braces should start from a new line and the code following the end of braces also starts from a new line.
- **Coding style**
    1. Avoid using a coding style that is too difficult to understand.
    2. Code should be easily understandable.
    3. Code should be well documented
    4. The code should be properly commented for understanding easily.
    5. Comments regarding the statements increase the understandability of the code.
    6. Length of functions should not be very large.
    7. Functions should be small enough to carry out small work.
    8. Lengthy functions should be broken into small ones for completing small tasks.
    9. Length of methods should not be very large.

10. Methods should be small enough to carry out small work.
11. Lengthy methods should be broken into small ones for completing small tasks.

- **Frontend**
  1. All JavaScript code should follow the Google JavaScript Style Guide.
  2. All HTML and CSS code should follow the Google HTML/CSS Style Guide.
  3. The headline on the home page should only take up one line of text, less than 50 characters.
  4. The size of the headline on the home page should be smaller than 200px.
  5. The application must ensure that styles and naming for interactive elements are used consistently.
  6. The application provides sufficient contrast between foreground and background.
  7. The application provides informative, unique page titles.
  8. The application uses headings to convey meaning and structure.
  9. The application makes link text meaningful.
  10. The application writes meaningful text alternatives for images.
  11. The application creates transcripts and captions for multimedia.
  12. The application provides clear instructions.
  13. The application must keep content clear and concise.
  14. The application must ensure that interactive elements are easy to identify.
  15. The application provides clear and consistent navigation options.
  16. The application ensures that form elements include clearly associated labels
  17. The application provides easily identifiable feedback.
  18. The application uses headings and spacing to group related content.
  19. The application style uses rem for font-size.
  20. The application style uses em for padding and margin.
  21. The application style uses em or percentage for widths.
  22. The application does not use all caps.
  23. The style of headlines of commentis shall be bolder.
  24. The max length of comment is 65,535 characters.
- **Backend**
  1. All Python code should follow a derivation of PEP-8 style guidelines.
  2. Whitespace rules and other rules are relaxed (for example, it is not necessary to put two newlines between classes, though that's just fine if you do).
  3. Single-line imports

     Do this:

     ```
     import os
     import sys
     ```

     Do **not** do this:

     ```
     import os, sys
     ```

4. Import Order: Imports should be ordered by their origin. Names should be imported in this order:
    i. Python standard library
    ii. Third party packages
    iii. Other modules from the current package
5. Wildcard Imports: Do not import all the names from a package (in other words, never use from package import *); import just the ones that are needed. Single-line imports apply here as well: each name from the other package should be imported on its own line.
6. Naming conventions for local variables, global variables, constants and functions:
    i. Local variables and global variables should be named using lower case lettering and underscore between words (e.g. local_data. Constant names should be formed using capital letters only (e.g. CONSDATA).
    ii. It is better to avoid the use of digits in variable names.
    iii. The names of the function should be written using lower case lettering and underscore between words.
    iv. The name of the function must describe the reason for using the function clearly and briefly.
    v. The names of the function should be written using lower case lettering and underscore between words.
    vi. The name of the function must describe the reason for using the function clearly and briefly.
    vii. Class names should normally use the CapWords convention.
7. All MySQL code should follow the MySQL Coding Guidelines.

Section 6: Competitive Analysis

Important Feature Table:

Feature/ Company	Taste of Home	Epicurious	Allrecipes	SimplyRecipes	Kitchen Magician
Strength	The site allows user customizations about what they want to see on their homepage, namely the ability to filter by season and occasions, among others.	The site provides multi-faceted approaches to people who want to begin cooking.	The site offers great step-by-step recipes. They also show images of the cuisine and how it would look when finished.	The site offers a suggestion button that shows a variety of recipes a user can prepare when they visit the website. This functionality helps users navigate the site better.	The site showcases popular and highly rated rece opportunities to foodies and chefs alike to bring their best recipes and share with the communities every week. If you are dissatisfied with the recipes you see, we permit users to join groups with other users where they may get an in-depth look into what specific cuisines they prefer.
Weaknesses	Even though the website offers recipes it seems that it's not only recipes. It also focuses on home crafts and other things that aren't really	The website is not as compelling to people who are just starting out cooking. It is overshadowed by to Many videos of a variety of	The website is cluttered and doesn't really have consistency in the recipes they show. For example they go from seafood to dessert	The website is cluttered with several option of recipes and is not consistent	The website is new so there aren't a lot of user recipes to pull from. We will lack in information listed since the website is fairly new and will also depend on

	related to it	videos opposed to it being categorized and easy to follow			much of what users input
Navigation	The navigation bar at the top is well placed and allows the user to go directly where they need to go	The website itself feels cluttered with too many recipes and seems out of order. Hard to know what you really want	The navigation is easy to follow and they also have a great additional the top that allows the user to jump to the exact ingredient of their choice	The navigation bar allows the user to filter out what they want to cooking terms of diets, ingredients, season, etc	Navigation bar is simple, has drop downs and includes a search box. This allows the users to find specific recipes and even direct users to specific food groups which they can locate foods that are similar to their diet by a community that has the same one
Color Scheme	The color choice is a dull and doesn't really pop out	The color choice seems very dark. The connection between these color and the website don't match	The color scheme is simple And they choose red which is a color that makes people hungry. Since they use this color it's a great addition to their website since it's about food	The color choice is simple and doesn't overshadow the users navigation through the website	The color choice is bright which gives the users an inviting feel to the website. We want an engaging color that makes the user want to stay longer on the website. We see that colors like red and light blue receive a better reaction overall.

Competitive Feature Table:

Feature	Taste of Home	Epicurious	All Recipes	SimplyRecipes	Kitchen Magician
Trending chef/recipe	-	-	-	-	+
Recipe information layout	+	+	+	+	++
Joining groups that share the same diet.	-	-	-	-	+
Ratings/comments	+	-	+	+	++

Superior: ++
Feature exists: +
Doesn't exist: -

Summary of Competitive Analysis:

All these recipe websites show us the best food, but one thing that they don't seem to get is that many users prefer to be quickly directed to food choices they enjoy. We've found that the UI of the competitors lack organization and consistency and we want to fix that. Kitchen Magician's UI will set a homepage that will give users a navigation bar to jump right into pages that have dishes that are aligned with their desires. The homepage won't have endless amounts of information.

Kitchen Magician will also introduce groups. We noticed that many of the competitors don't have that community feeling with food. We believe that food brings people together. Users will have the chance to customize what they see by allowing them to join groups with people who enjoy the same foods they eat, and the same diets they have, to their needs. Users will be able to share recipes amongst each other and discuss dishes they enjoy.

Through our competitors we notice they incorporate a spotlight in their homepage. The thing about that is, they disregard the communities opinion and instead try to push recipes that they want to see at the top. For us though, we want to show recipes that the community as a whole feel is extraordinary. This feature will be implemented through a trending recipe. A recipe can become trending by the amount of upvotes it receives by the community. This sets a precedent that the community chooses what is trending and not us.

Lastly, many of our competitors have a lot of clutter when you reach their recipe pages. We will minimize clutter on the page by simply putting the recipe in the center along with the

upvote, share and comment section near the bottom of the recipe. As we put ourselves in the space of our own users, we all agree that when there is too much happening all at once, the user gets overwhelmed and wants to move on. We at Kitchen Magician have a goal in making things clearer and more catered for the user, resulting in a better experience overall.

Section 7: High-Level System Architecture and Technologies Used

System Architecture and Technologies	Tootls/Version
Server Host	Google Compute Engine 2vCPU 4 GB RAM
Operating System	Ubuntu 20.04 LTS
Database	MySQL 8.0.21
Web Server	Apache 2.4
Server-Side Language	Python 3.7+
Front-Side Language	HTML5, CSS3, JavaScript
Supported Browsers	Chrome 85.0.4183.121+, Firefox 81.0.1+
Web Framework	Django 3.1.2+
IDE	VS Code
Web Analytics	GTmetrix
SSL Cert	Certbot

Section 8: Team

1. Nicole Pang (Team Lead):
    a. Executive Summary, Use cases (3), section 6, gave input/feedback, applied feedback to individual and shared sections, set up meeting, checked in with team members, assigned M1 editor, assigned individual sections, offered assistance to team member, submit M1V1 link to CEO for grading, participated/attend team meetings, set team deadlines
2. Jeff Cheng (Frontend Lead):
    a. Section 4, executive summary, use cases (1), participated/attend team meetings, gave input/feedback, applied feedback to individual and shared sections
3. Allen Sun (Backend Lead & Database Master):
    a. Section 7, executive summary, use cases (1), section 5, participated/attend team meetings, applied feedback to individual and shared sections
4. Paul Asu (Github Master):
    a. Section 5, executive summary, use cases(1), participated/attended team meetings, applied feedback to individual and shared sections
5. Kevin Wei (M1 Editor):
    a. Section 3,section 4, executive summary, use cases (2) , formated M1V1 pdf, exported M1V1 pdf for submission, participated/attended team meetings, made sure team stayed on track during meeting, gave input/feedback, applied feedback to individual and shared sections
6. Kevin Ortiz (Undefined):
    a. Section 6, executive summary, use cases (1), applied feedback, participated/attended team meetings, gave input/feedback, applied feedback to individual and shared sections

Section 9: Checklist

- Team found a time slot to meet outside of the class: **DONE**
- Github Master chosen: **DONE**
- Team decided and agreed together on using the listed SW tools and deployment server: **DONE**
- Team ready and able to use the chosen back and front end frameworks and those who need to learn are working on learning and practicing: **DONE**
- Team lead ensured that all team members read the final M1 and agree/understand it before submission: **DONE**
- Github organization as discussed in class (e.g master branch, development branch, folder for milestone documents etc.): **DONE**

Kitchen Magician

SW Engineering CSC648/848

FALL 2020

Team 01

Kevin Wei (Team Lead) : kwei3@mail.sfsu.edu

Jeff Cheng (Frontend Lead)

Allen Sun (Backend Lead)

Paul Asu (Github Master)

Nicole Pang (M2 Editor)

Kevin Ortiz (Developer)

Milestone 2

History Table

Version	Date
M2V2	11/18/2020
M2V1	11/01/2020
M1V2	10/08/2020
M1V1	10/01/20

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Section 1: Data Definitions V2

1. General User: Does not have to log in. Can register. Does not have a profile. Is able to browse the website including the home page, about page, search page, other user profiles, and recipes. Does not have access to groups and cannot join one, cannot give rating and comment.
2. Registered User: Does have to log in using username and password. Does have a profile. Is able to browse the website including the home page, about page, search page, other user profiles, own user profile, recipes, and groups page. Can join a group, but is not yet part of one. Can give ratings and comments. Can log out of account.
    a. UserID
    b. Username
    c. Password
        i. Password must contain at least 8 characters.
        ii. Poor password can’t be entirely numeric.
    d. Profile
    e. Email
        i. Email must be unique.
    f. Favorite Recipes
    g. Number of Favorite Recipes
    h. User Recipes
    i. Number of User Recipes
3. Group User: A subclass of Registered User. Does have to log in using username and password. Does have a profile. Is able to browse the website including the home page, about page, search page, other user profiles, own user profile, recipes, and groups page. Is already a part of a specific group, but can join up to X groups. Groups that they are in allow access to the specific group’s group forum and can comment in it. Can give ratings and comments. Can log out of account.
    a. UserID
    b. Username
    c. Password
    d. Profile
        i. Real Name
        ii. Birth Date
        iii. Gender
        iv. Ethnicity
        v. AccountCreationDate
    e. Email
    f. Favorite Recipes
    g. Number of Favorite Recipes

    h. User Recipes
    i. Number of User Recipes
    j. Groups
4. Admin: A subclass of Registered User. Does have to log in using username and password. Does have a profile. Is able to browse the website including the home page, about page, search page, other user profiles, own user profile, recipes, and groups page. Already is a part of every group and thus has access to all group forums to monitor activity in each. Can give ratings and comments. Can delete other users' comments and recipes at their discretion. Can log out of account.
    a. UserID
    b. AdminID
    c. Username
    d. Password
    e. Profile
    f. Email
    g. Favorite Recipes
    h. Number of Favorite Recipes
    i. User Recipes
    j. Number of User Recipes
    k. Groups
5. Profile: A supporting class of Registered Users. Contains all of a registered/group/admin user's personal information. The specific user whom the profile corresponds to is able to control what information other users can see on their profile page. In addition, various user settings only available to the specific user are here, such as the reset password option.
    a. Real name
    b. Avatar
    c. Birth Date
    d. Gender
    e. Ethnicity
    f. Account Creation date
6. Recipe: The bread and butter of our website. A complete guide to a dish made by registered, group, or admin users. Contains all the information below and registered/group/admin users can comment, upvote them, and favorite them. The 3-4 recipes with the most upvotes will be considered trending and will be displayed on the home page.
    a. Name
    b. RecipeID
    c. Author
    d. Meal Type

    e. Cuisine
    f. Ingredients
    g. Preparation Time
    h. Instructions
    i. Picture
    j. Optional Video
    k. Upvotes
    l. Comments
7. Comment: Text that can be given by registered/group/admin users to any recipe, comment, or post in group forums to display their opinion on the respective content.
    a. CommentID
    b. UserID
    c. Message
    d. Upvotes
    e. Replies
8. Search: Class that allows any user to filter down and specify what it is they are actually looking for in a recipe. Once filters and search words are applied and users click search, the results will appear on the same page below to filters.
    a. Results
    b. Keywords
        i. Name
        ii. Author
        iii. Meal Type
        iv. Cuisine
        v. Ingredients
        vi. Preparation Time
        vii. Diet
            1. Vegan Group
            2. Keto Group
            3. Vegetarian Group
            4. Gluten Free Group
            5. Pescatarian Group
            6. Paleo Group
            7. Low Carb Group
            8. Raw Diet
9. Group: A collection of users categorized by specific dietary needs. Registered users can go to the *overall* groups page to join a specific group. Once they have selected and joined a group, on that groups page they will gain access to the group forum of the group that they joined (and become a group user). They can join more groups up to a maximum of X groups. In the group forum page there will be a displayed list of users in the group, by

username, and the post section. Group users will be able to converse and chat in this section with other group users users of the specific group forum. These group users can also comment and upvote in the posts section.

a. GroupID
b. Group Name
c. Group Users
d. Total Comments

Section 2: Functional Requirements V2

Priority 1:

General User:

1. General User shall be able to register for an account.
2. General User shall register for an account using a registration form.
    2.1. General User shall see a user friendly registration form.
    2.2. General User shall see a login link in the registration form.
3. General User shall provide an email when registering for an account.
    3.1. General User shall provide a valid email when registering for an account.
    3.1. General User shall provide a unique email when registering for an account.
4. General User shall provide an username during registration
6. General User shall verify the password when registering for an account.
    6.1. General User shall provide the password when registering for an account.
    6.2. General User shall confirm the password when registering for an account.
7. General User shall see a navigation bar on all pages.
    7.1. General User shall see a logo on the navigation bar on all pages.
    7.2. General User shall see an input search on the navigation bar on all pages.
9. General User shall be able to search for recipes at the search page.
10. General User shall be able to view recipes.

Registered User:

14. Registered User shall be able to log in with a valid username.
15. Registered User shall be able to log in with a valid password.
16. Registered User shall be able to log out.
17. Registered User shall have only one profile page.
    17.1 Registered User shall see favorite recipes on the profile page.
    17.2 Registered User shall see groups involved on the profile page.
    17.3 Registered User shall see its own recipes on the profile page.
19. Registered User shall be able to change their password.
20. Registered User shall be able to reset their account password.
23. Registered User shall see a navigation bar on all pages.
    23.1. Registered User shall see a logo on the navigation bar on all pages.
    23.2. Registered User shall see an input search on the navigation bar on all pages.
24. Registered User shall be able to search for recipes at the search page.
25. Registered User shall be able to view recipes.
26. Registered User shall be able to create their own recipes.
27. Registered User shall be able to publish their own recipes.
28. Registered User shall be able to edit their own recipes.
29. Registered User shall be able to delete their own recipes.

32. Registered User shall be able to upvote any public recipe.
34. Registered User shall be able to add a comment on any public recipe.
38. Registered User shall be able to favorite a recipe.
40. Registered User shall be able to view existing groups.
41. Registered User shall be able to join a group.

Admin:

42. Admin shall be able to log in with a username.
43. Admin shall be able to log in with a password.
44. Admin shall be able to log out.
45. Admin shall have a profile page.
47. Admin shall be able to change their password.
48. Admin shall be able to reset account password at the profile page.
51. Admin shall see a navigation bar on all pages.
    51.1 Admin shall see a navigation bar on all pages.
    51.2 Admin shall see a different navigation bar on the administration page.
53. Admin shall be able to search for recipes.
54. Admin shall be able to view recipes.
55. Admin shall be able to publish their own recipes.
56. Admin shall be able to change contents of their own recipes.
    54.1. Admin shall be able to change any text of their own recipes.
    55.2. Admin shall be able to change any picture of their own recipes.
    56.3. Admin shall be able to change any video of their own recipes.
57. Admin shall be able to delete any public recipes.
60. Admin shall be able to upvote any public recipe.
62. Admin shall be able to add a comment on any public recipe.
64. Admin shall be able to favorite a recipe.
67. Admin shall be able to delete a group.
69. Admin shall be able to join a group.
70. Admin shall be able to delete messages from the group forum.

Recipe:

72. A recipe shall have a title.
73. A recipe shall have one or more recipe categories to be added for search.
78. A recipe shall have one or more ingredients to be added for search.
79. A recipe shall have one or more directions on how to finish the recipe.
80. A recipe should add zero or more photos.
81. A recipe should add zero or only one video.
82. A recipe shall be labeled trending when it is the recipe with the most upvote ratings

Group User:

84. Group User shall be able to view the forum.
85. Group User shall be able to search for recipes.
86. Group User shall be able to post to the forum.
87. Group User shall be able to comment on the forum.
89. Group User shall be able to change their password at the profile page
90. Group User shall be able to reset account password
91. Group User shall be able to log out
94. Group User users shall see a navigation bar on all pages.
    94.1. Registered User shall see a logo on the navigation bar on all pages.
    94.2. Registered User shall see an input search on the navigation bar on all pages.
96. Group User shall be able to search for recipes
97. Group User shall be able to view recipes
98. Group User shall be able to publish their own recipes
99. Group User shall be able to change contents of their own recipes
    99.1. Group User shall be able to change any text of their own recipes.
    99.2. Group User shall be able to change any picture of their own recipes.
    99.3. Group User shall be able to change any video of their own recipes.

Priority 2:

General User:

5. General User shall verify that the email used to register for the account is valid.
10. General User shall be able to view a Registered User's profile.
102. General User shall be able to report a comment.

Registered User:

18. Registered User shall be able to change visibility of their profile page.
21. Registered User shall be able to change the avatar for their profile page from the image database.
35. Registered User shall be able to report a recipe.
36. Registered User shall be able to report a comment.

Admin:

49. Admin shall be able to change the avatar for their profile page from the image database.
63. Admin shall be able to delete any comment on any public recipe.

Recipe:

75. A recipe shall have serving size information to be added for search.
77. A recipe shall have estimated time required to finish the recipe to be added for search.

Group User:

88. Group User shall be able to change visibility of their profile page.

92. Group User shall be able to change the avatar for their profile page from the image database.

Priority 3:

General User:

8. General User shall see a counter for the total number of registered users on the home page.
11. General User shall be able to share a recipe by email.
12. General User shall be able to download a recipe.

Registered User:

22. Registered User shall have an attribute for account creation time at the profile page.
30. Registered User shall have a counter for their number of public recipes on their profile page.
31. Registered User shall have a counter for their number of private recipes on their profile page.
37. Registered User shall be able to share a recipe by email.
39. Registered User shall be able to download a recipe.

Admin:

50. Admin shall have an attribute for account creation time on their profile page.
52. Admin shall see a counter for the number of registered users, where appropriate.
58. Admin shall have a counter for their number of public recipes on their profile page.
59. Admin shall have a counter for their number of private recipes on their profile page.
65. Admin shall be able to download a recipe.
66. Admin shall be able to create a group.
68. Admin shall be able to reset password for users.

Recipe:

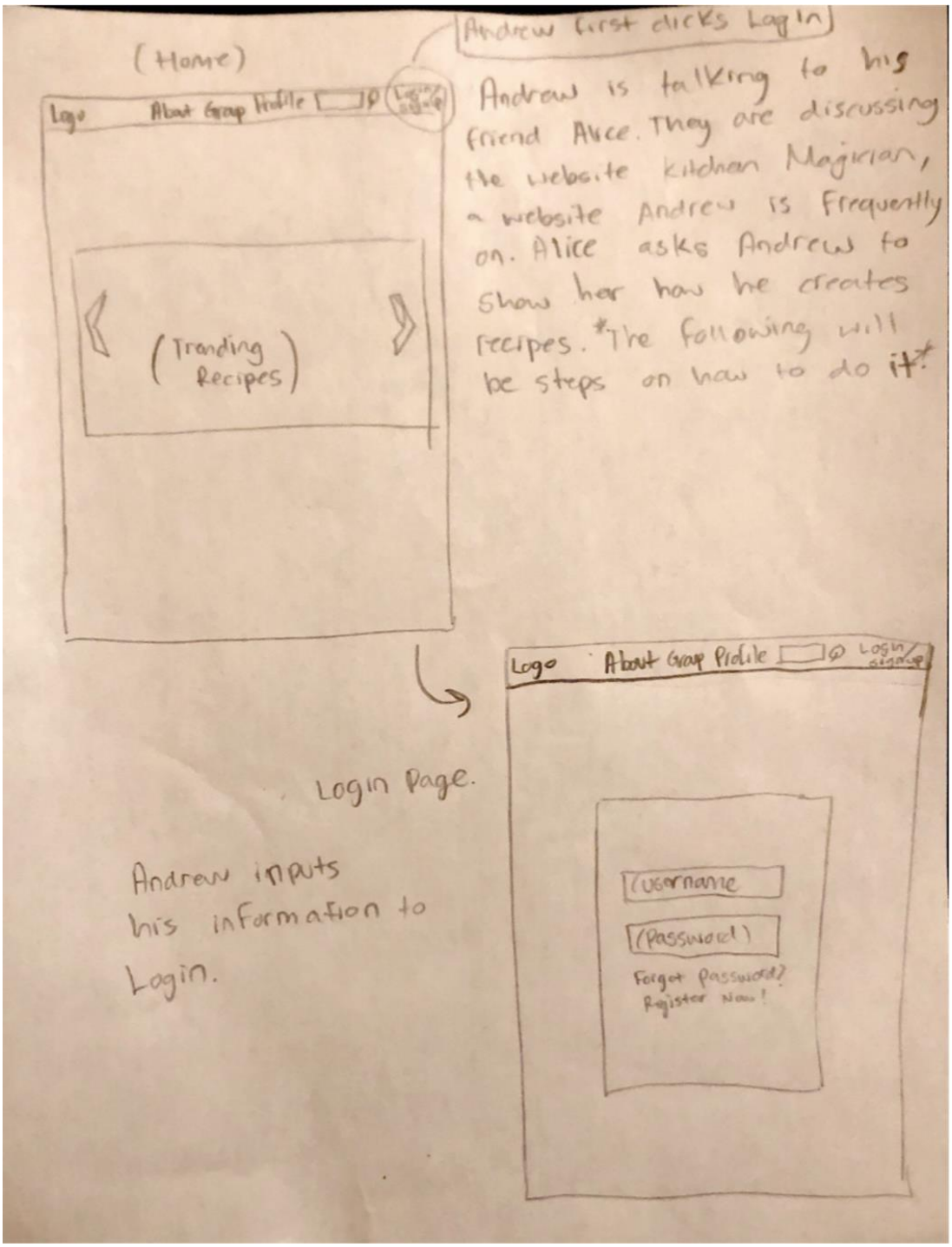
71. A recipe shall be able to be made private.
74. A recipe shall have one or more keywords to be added for search.
76. A recipe shall have estimated costs to be added for search.
83. Only a public recipe shall be visible when searched for.
103. A recipe shall be able to be made public.

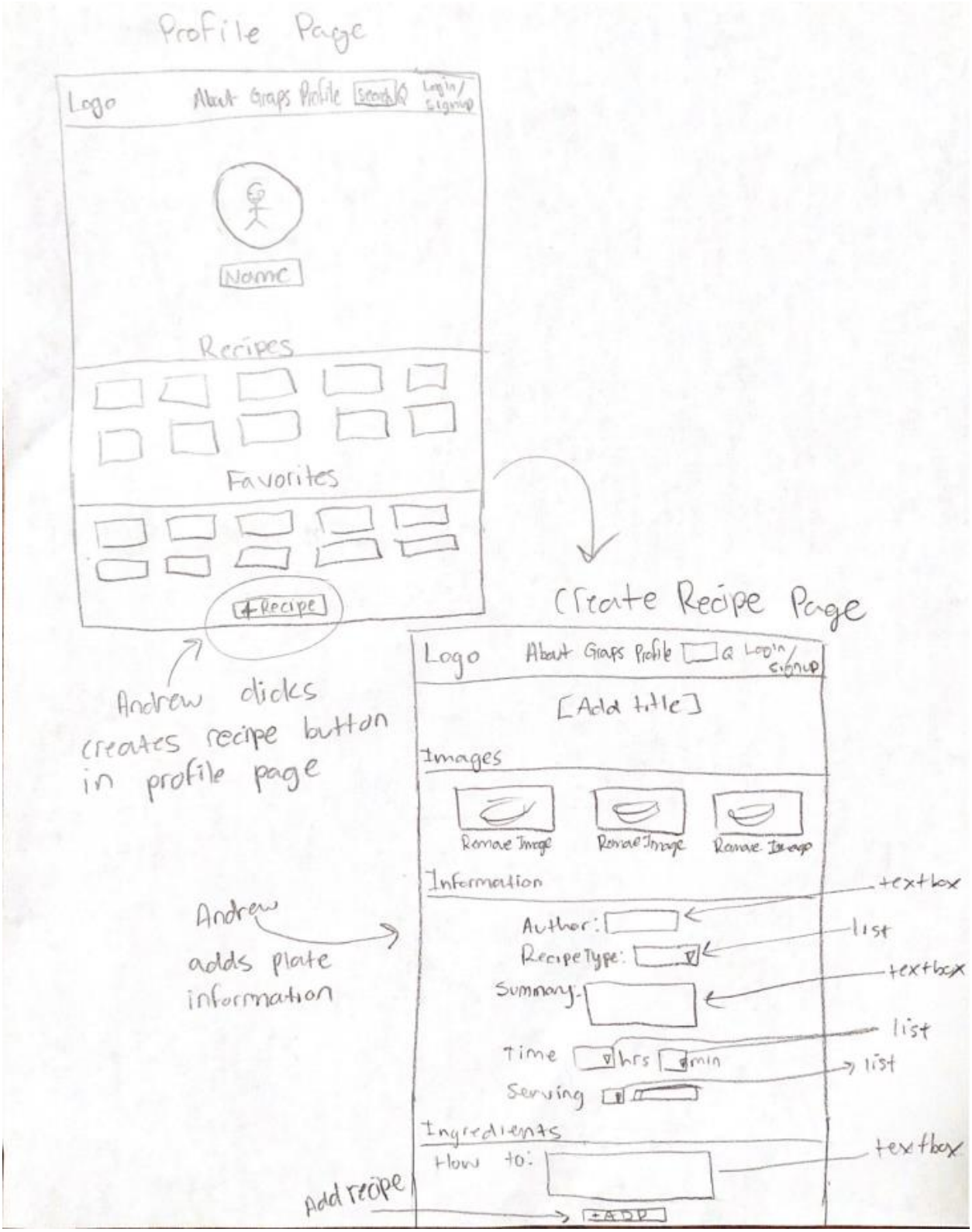
Group User:

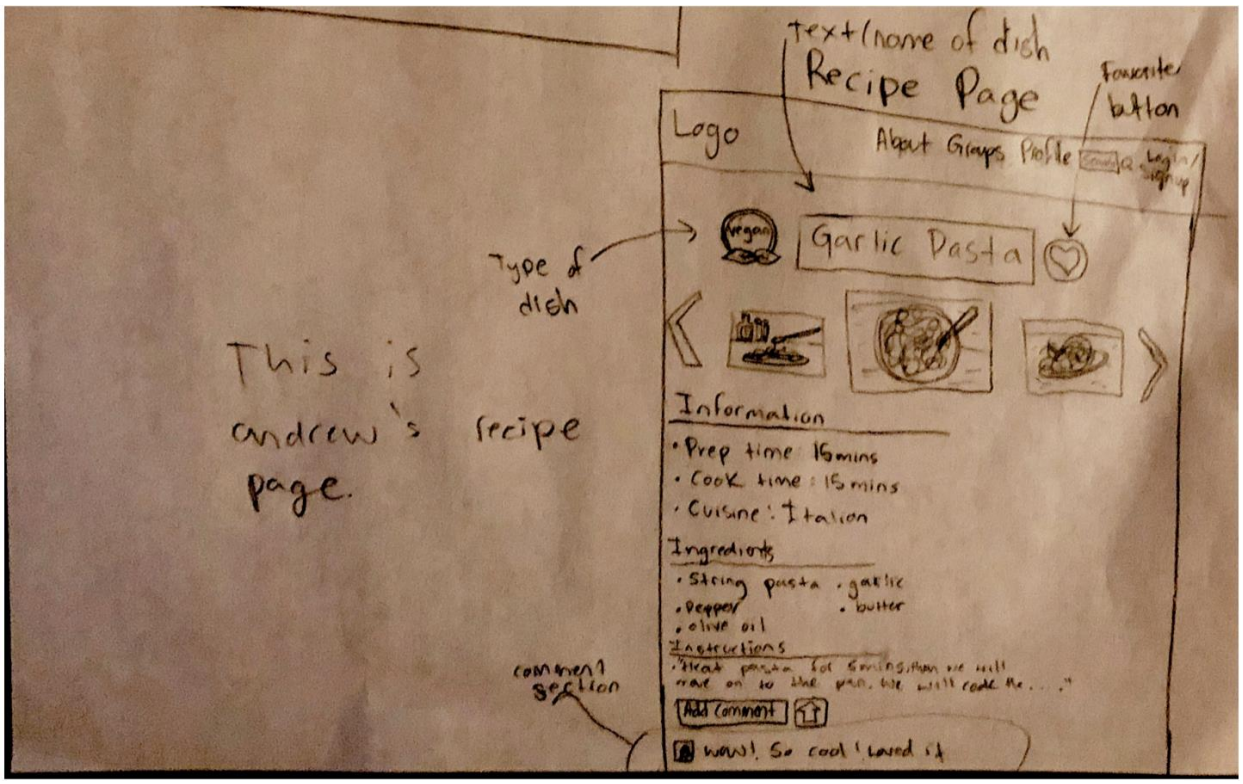
93. Group User shall have an attribute for account creation time on their profile page.
95. Group User shall see a counter for the number of registered users, where appropriate.
101. Group User shall have a counter for their number of public recipes on their profile page.
104. Group User shall see a counter for their number of private recipes on their profile page.

Section 3: UI Mockups and Storyboards

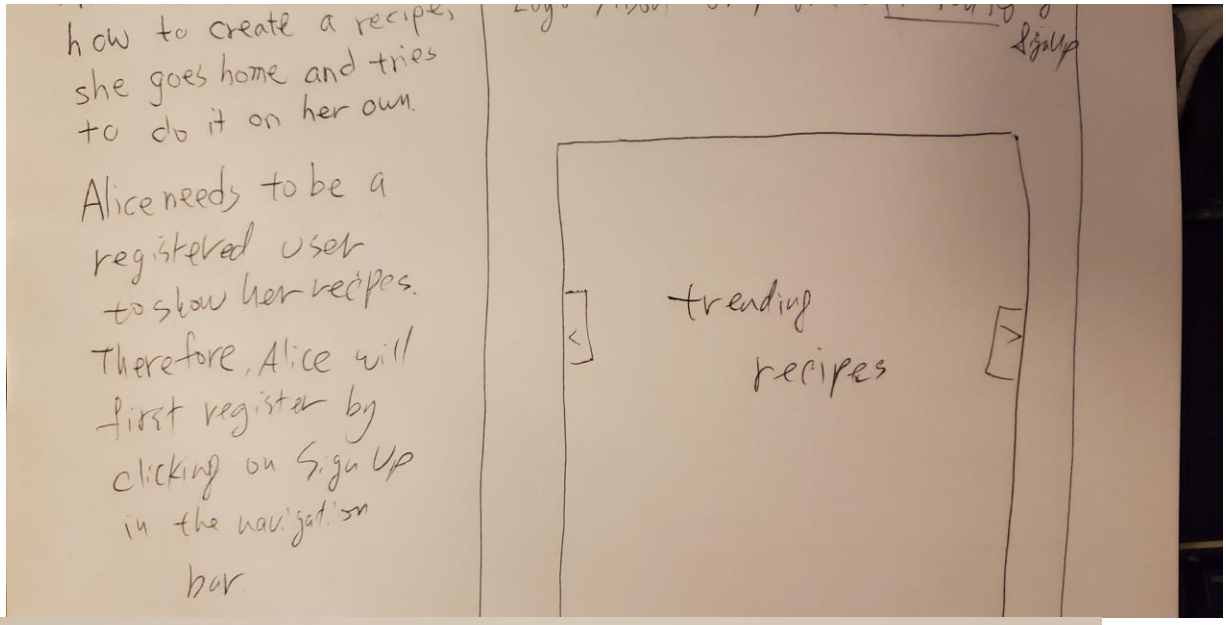
Andrew Mockup:

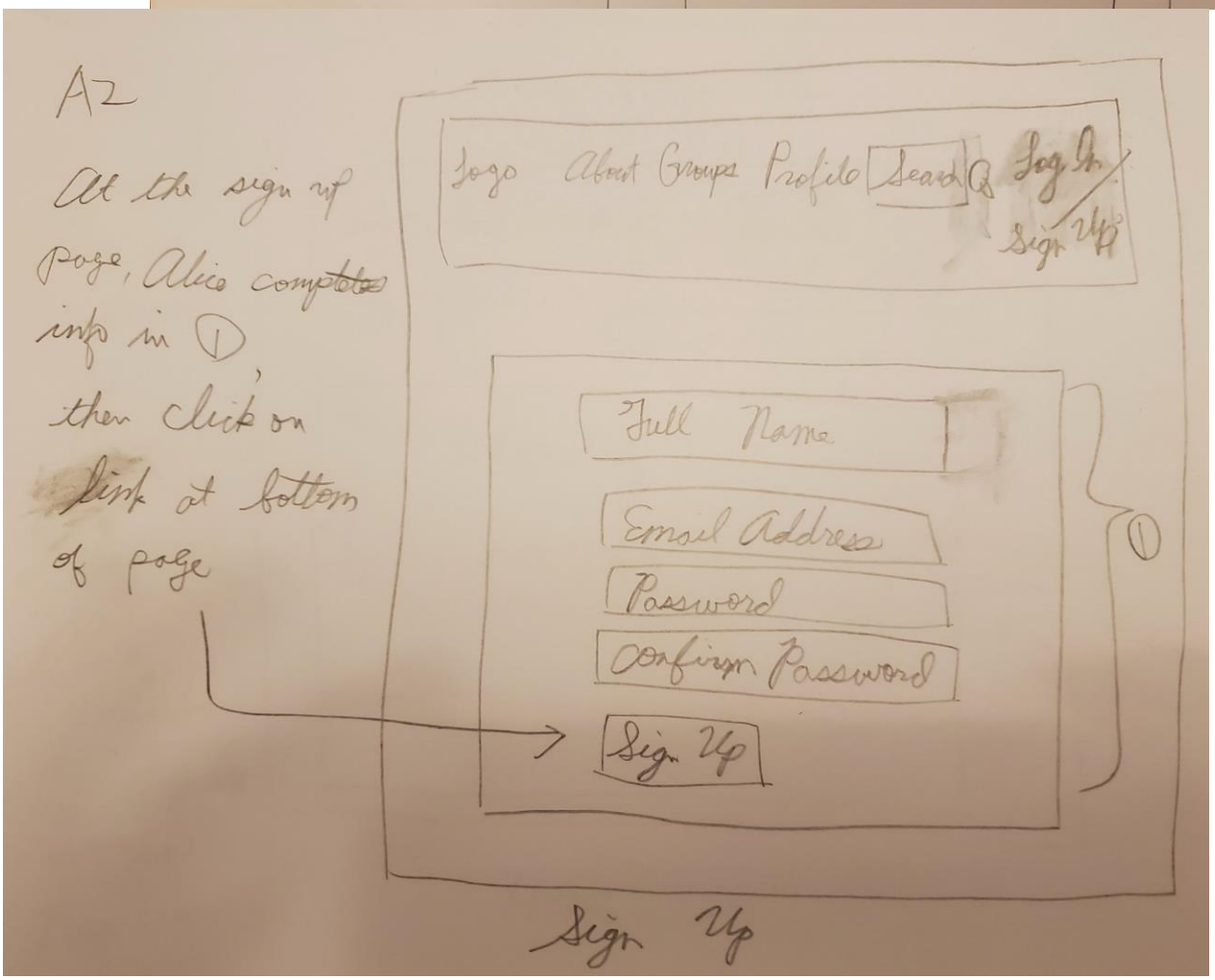


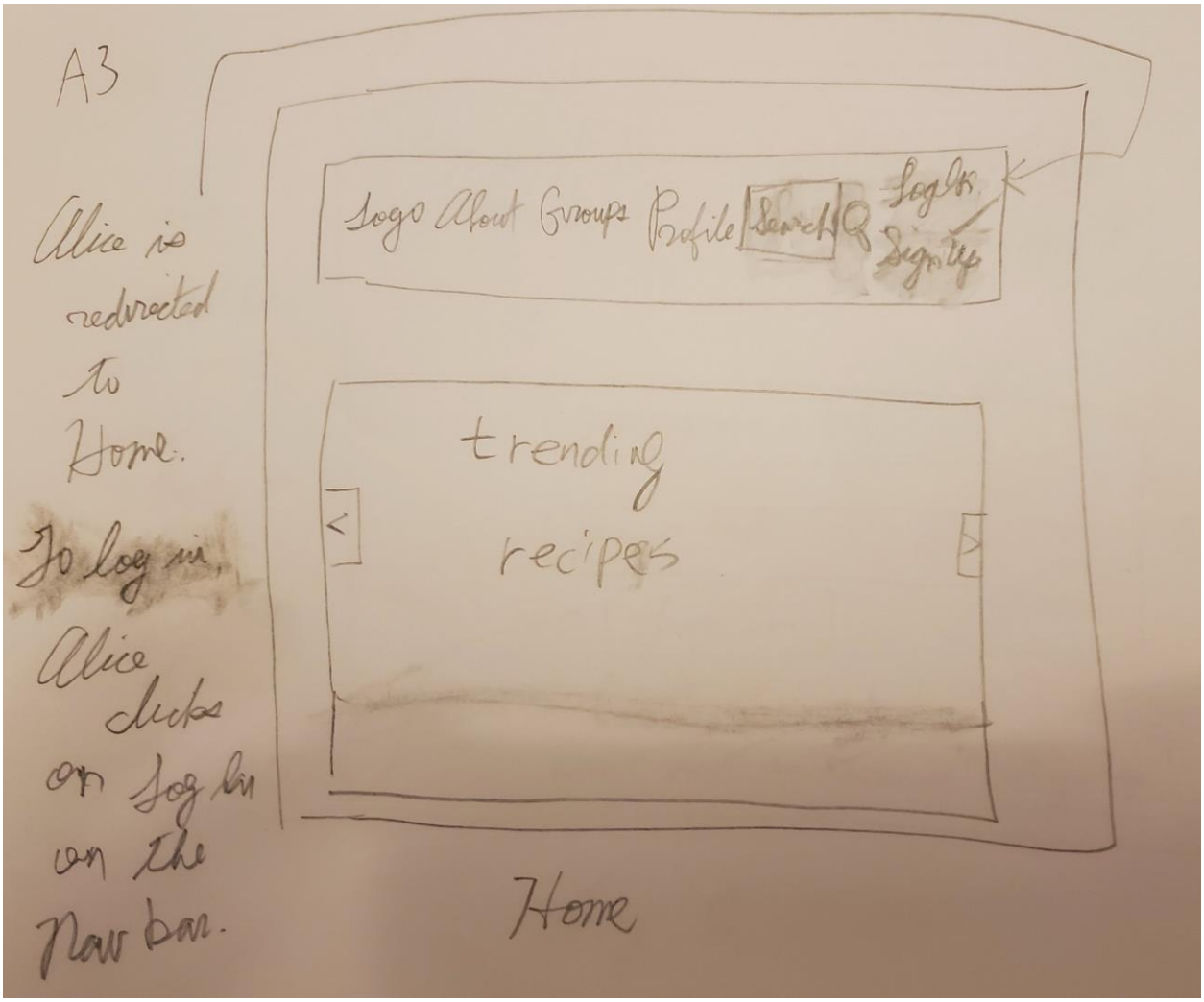

Profile Page
Logo
About Groups Profile
Search
Login/ Signup
Name
Recipes
Favorites
+Recipe
Andrew clicks creates recipe button in profile page
Create Recipe Page
Logo
About Groups Profile
Login/ Signup
[Add title]
Images
Remove Image
Remove Image
Remove Image
Information
textbox
Author:
list
Recipe Type:
textbox
Summary:
list
Time
hrs
min
list
Serving
Ingredients
How to:
textbox
Andrew adds plate information
Add recipe
+ADD

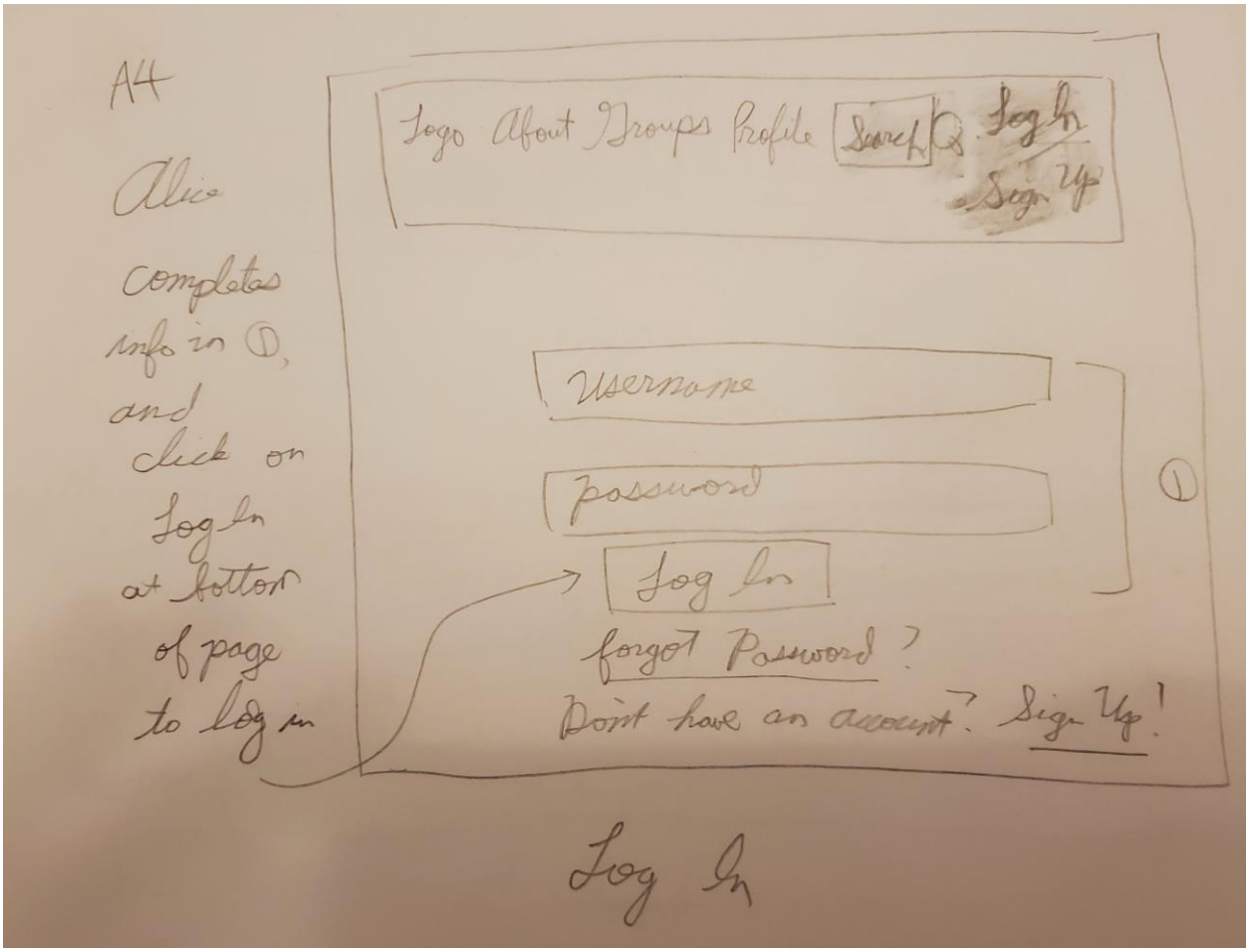

This is andrew's recipe page.
Text/name of dish
Recipe Page
Favorite button
Logo
About Groups Profile
Type of dish
Vegan
Garlic Pasta
Information
• Prep time: 15mins
• Cook time: 15 mins
• Cuisine: Italian
Ingredients
• String pasta
• garlic
• Pepper
• butter
• olive oil
Instructions
comment section
Add Comment
wow! So cool! Loved it

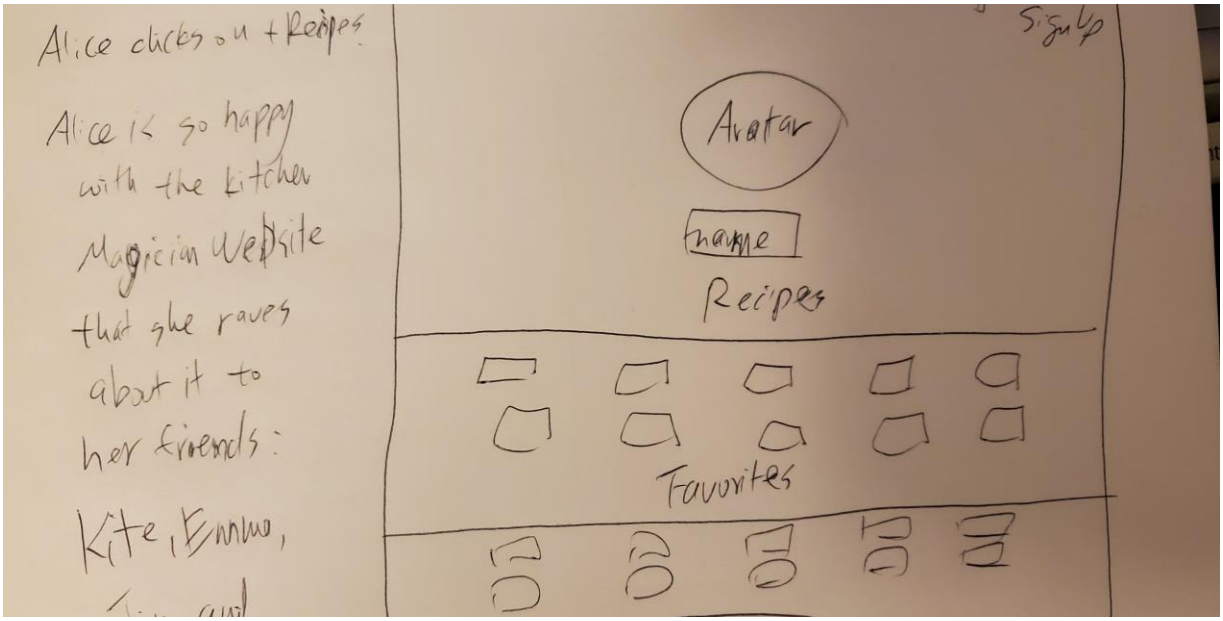
Alice Mockup:



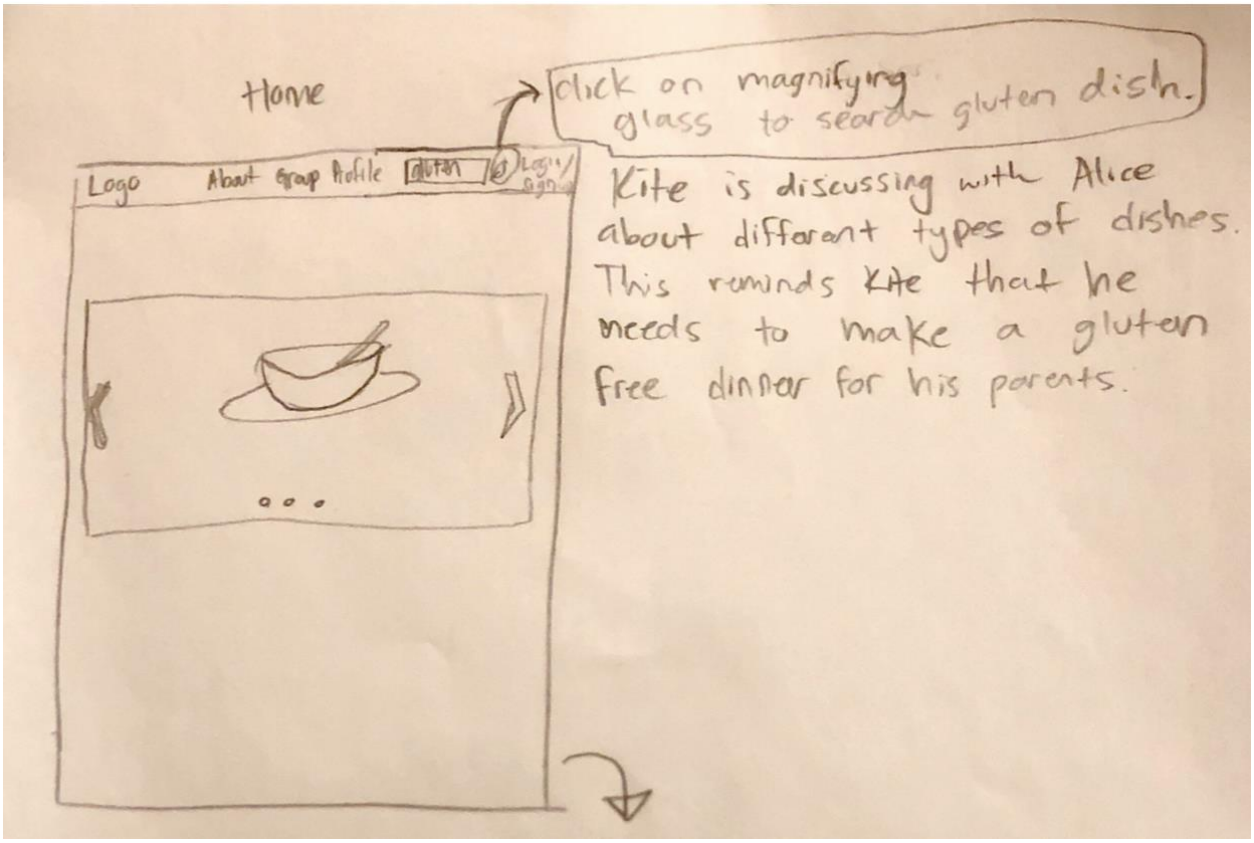


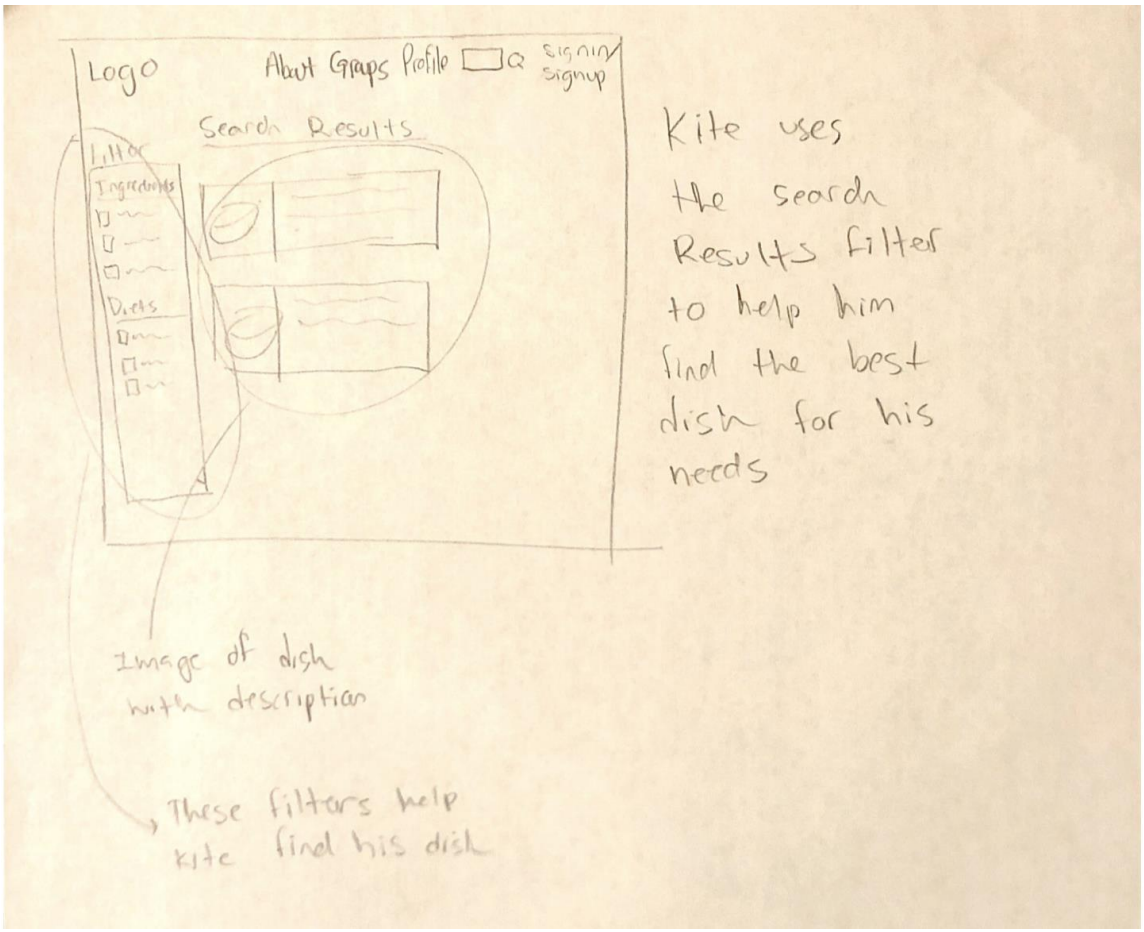

A3
Alice is redirected to Home.
To log in, Alice clicks on Log In on the Nav bar.
Logo About Groups Profile Search Q Log In Sign Up
trending recipes
Home


A4
Alice completes info in ①, and click on Log In at bottom of page to log in
Logo About Groups Profile Search Log In Sign Up
Username
password
Log In
forgot Password?
Don't have an account? Sign Up!
①
Log In


Alice clicks on +Recipes.
Alice is so happy with the Kitchen Magician Website that she raves about it to her friends: Kite, Emma,
Sign Up
Avatar
name
Recipes
Favorites

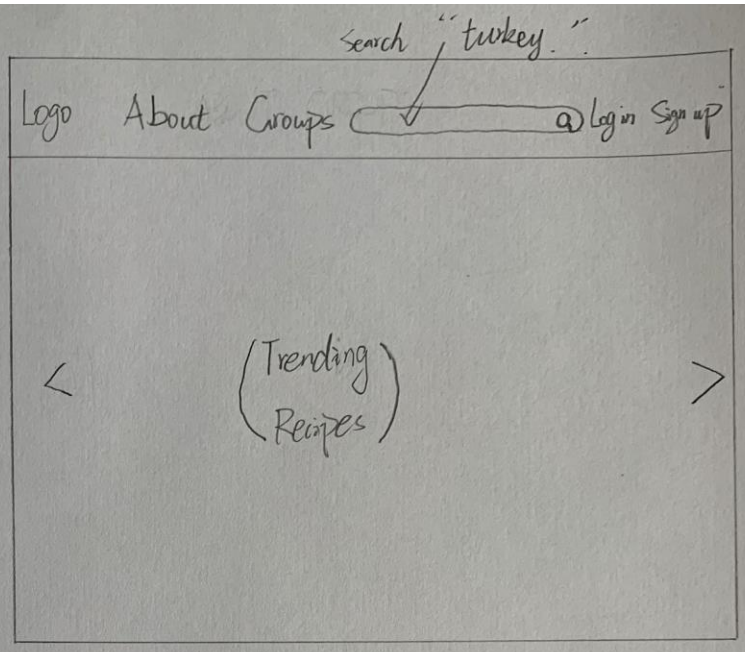
Kite Mockup:


Home
click on magnifying glass to search gluten dish.
Logo
About
Group
Profile
gluten
Login/ Signup
Kite is discussing with Alice about different types of dishes. This reminds Kite that he needs to make a gluten free dinner for his parents.


Logo
About Groups Profile
Q
sign in/
signup
Search Results
Filter
Ingredients
Diets
Kite uses the search Results filter to help him find the best dish for his needs
Image of dish with description
These filters help kite find his dish

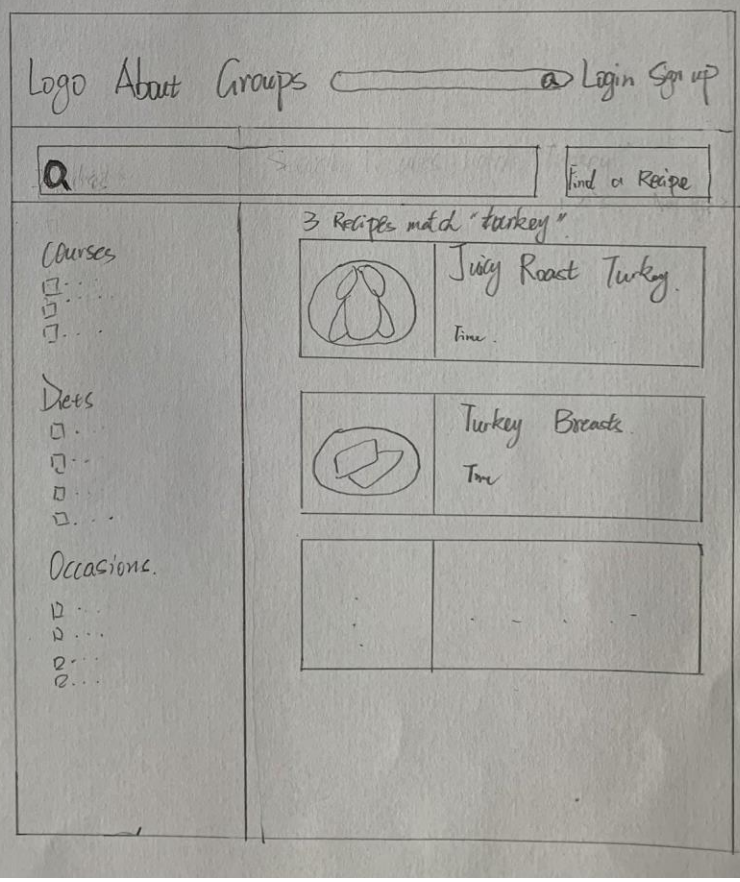
Emma Mockup:

Emma wants to make a juicy turkey. She goes to the website, and starts searching turkey related receipes.

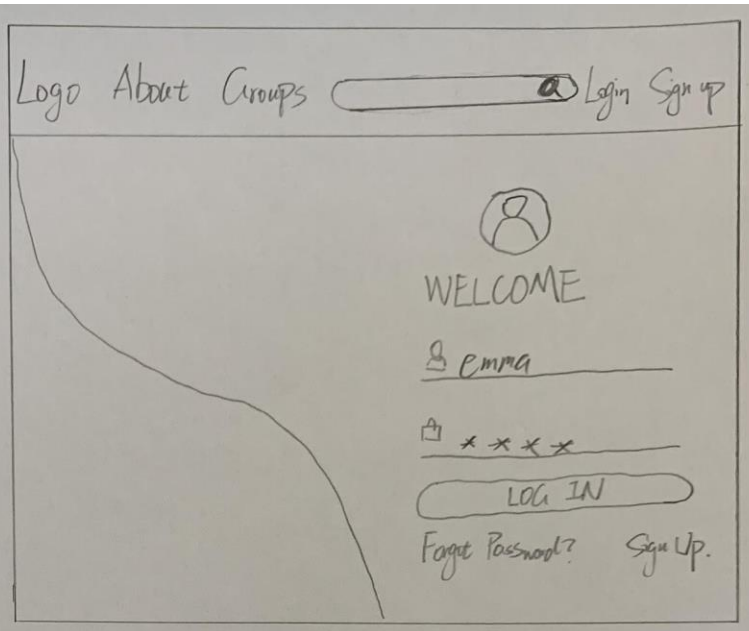


With keyword search, she finds more than 10 related recipes. She cannot find a satisfied one after a thorough browse.

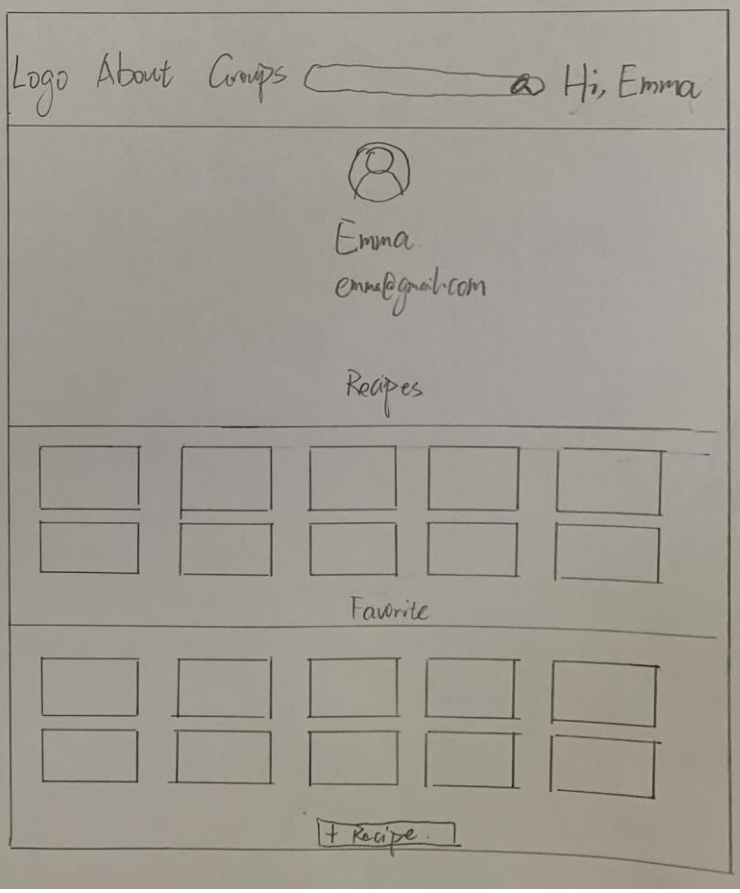
All of a sudden, she realizes she has favorited an excellent recipe before in her favorites list, so she decides to log in.



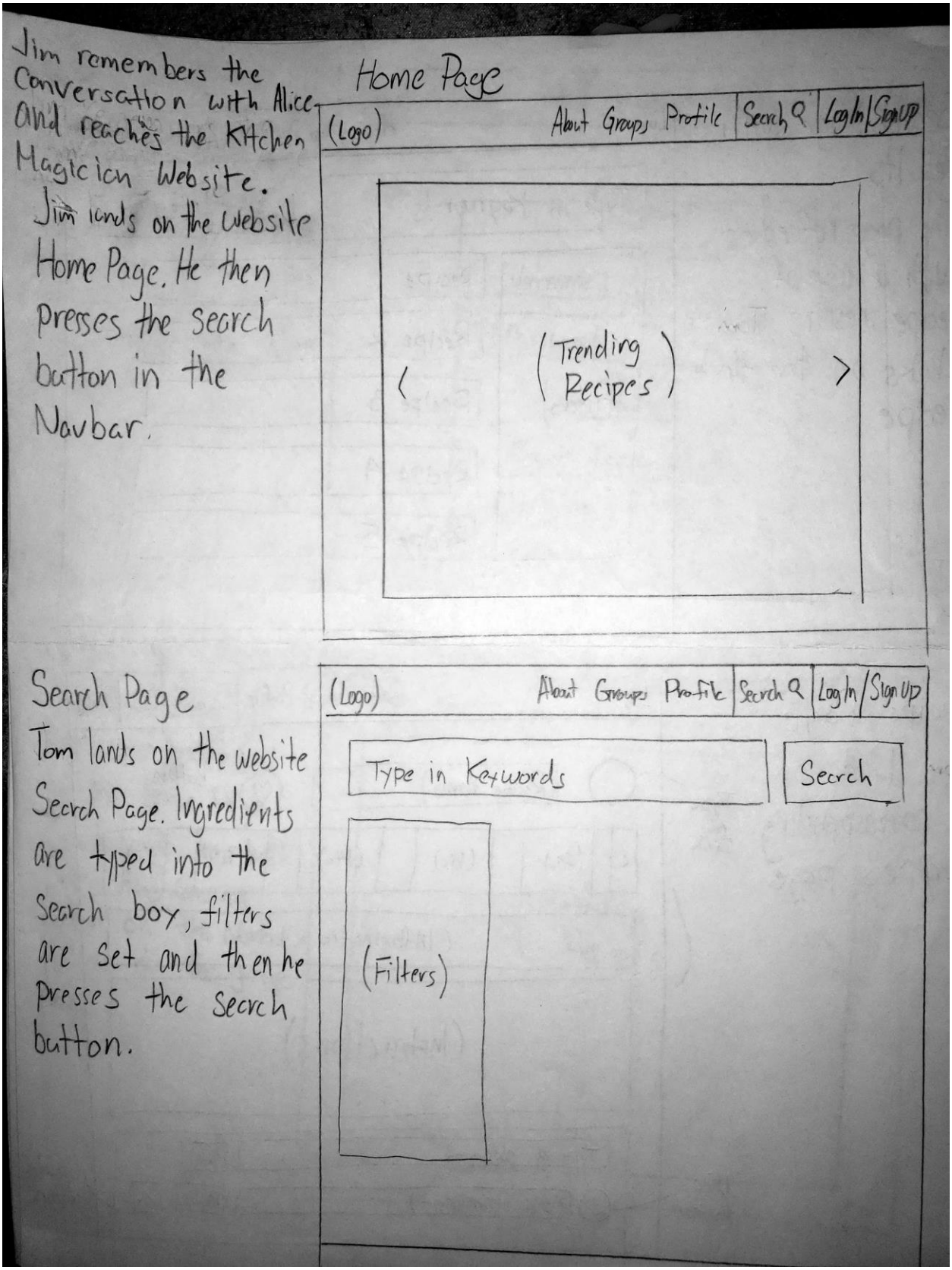
On the log in page. she types in her user name and passwords.



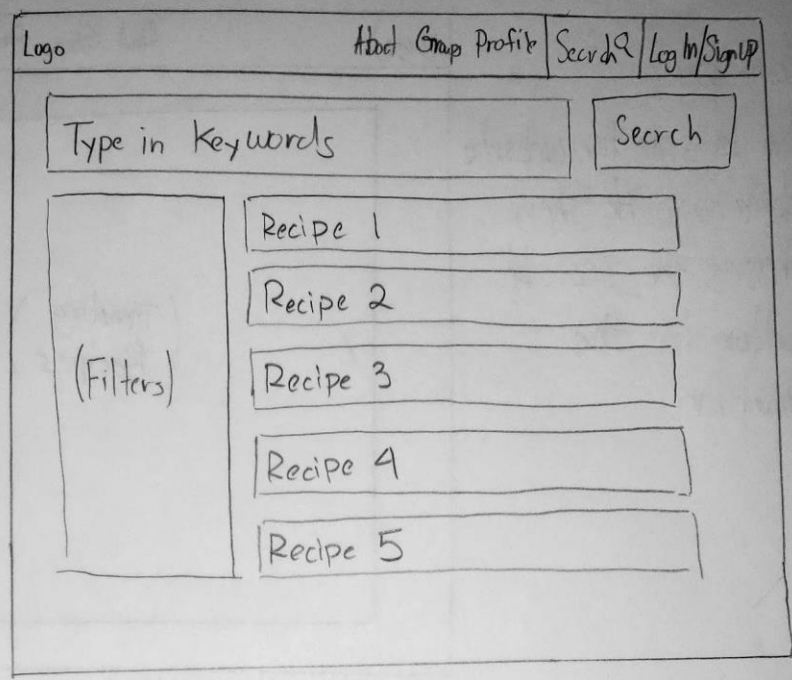
After login. She goes to her profile page to find her favorite turkey recipe.



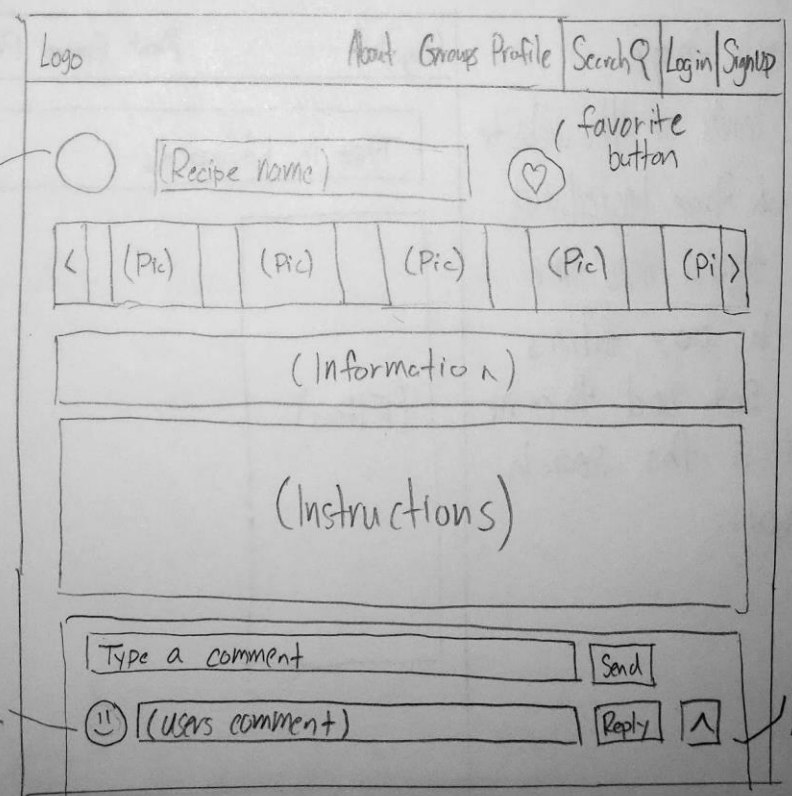
Jim Mockup:


Jim remembers the Conversation with Alice and reaches the Kitchen Magician Website. Jim lands on the website Home Page. He then presses the search button in the Navbar.
Home Page
(Logo)
About Groups Profile
Search
Log In/Sign Up
(Trending Recipes)
Search Page
Tom lands on the website Search Page. Ingredients are typed into the Search boy, filters are set and then he presses the Search button.
(Logo)
About Groups Profile
Search
Log In/Sign Up
Type in Keywords
Search
(Filters)

Search Page with Results.
The page refreshes with a list of recipe results. Jim clicks on the first recipe.

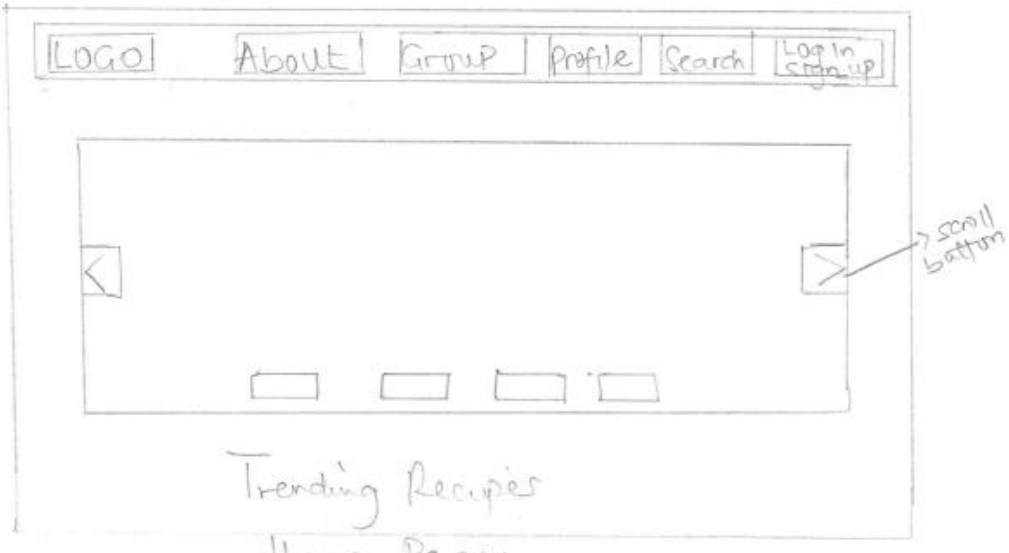


Recipe Page
Jim lands on the corresponding recipe's page



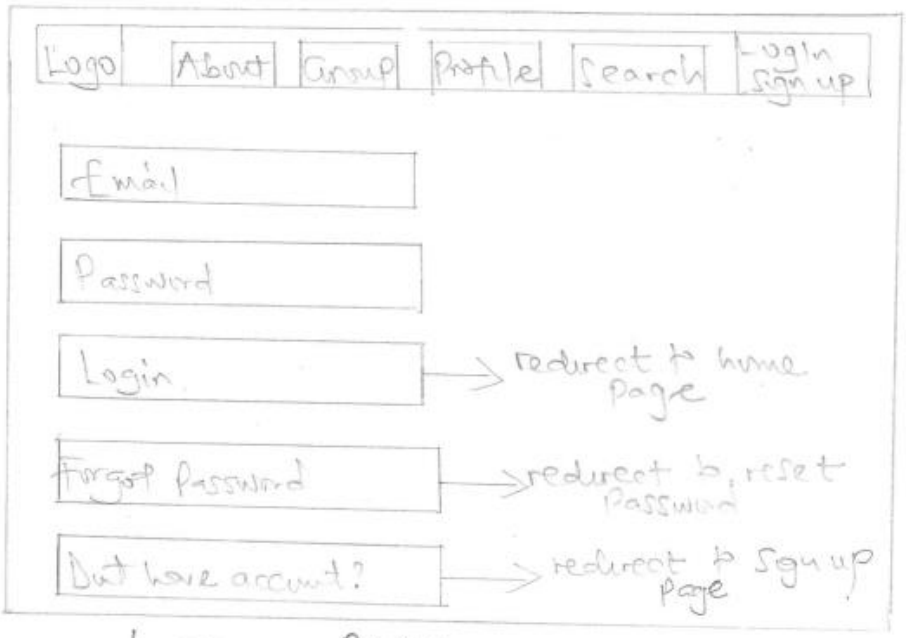
Pamela Mockup:

Pamela goes home and goes to the Kitchen Magician website out of curiosity from her conversation with her friends.



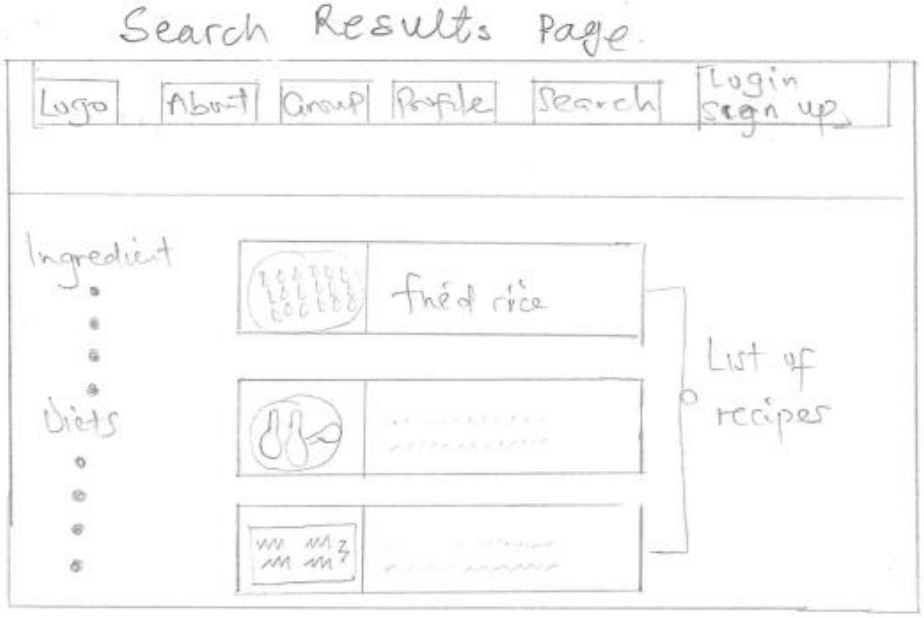
Trending Recipies

Home Page.

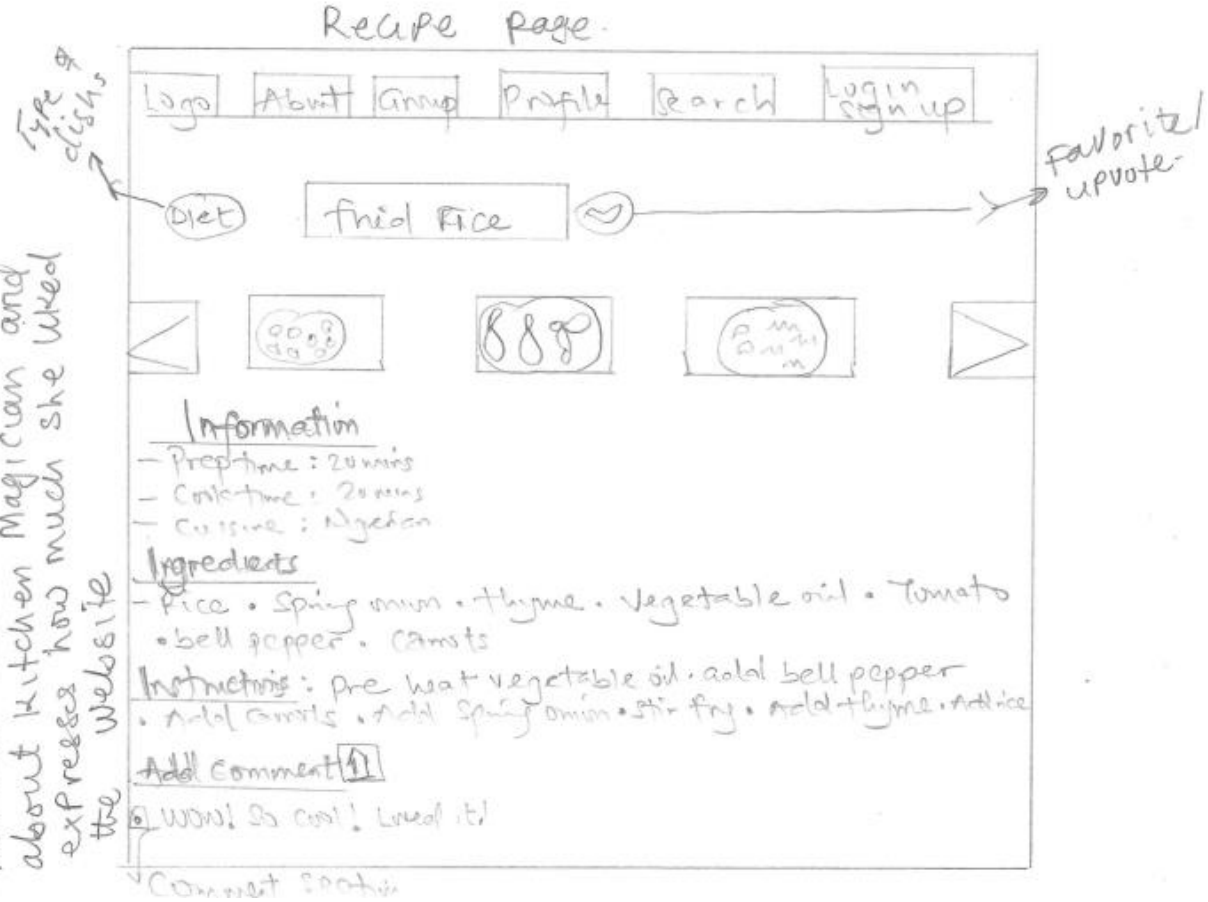


Login Page

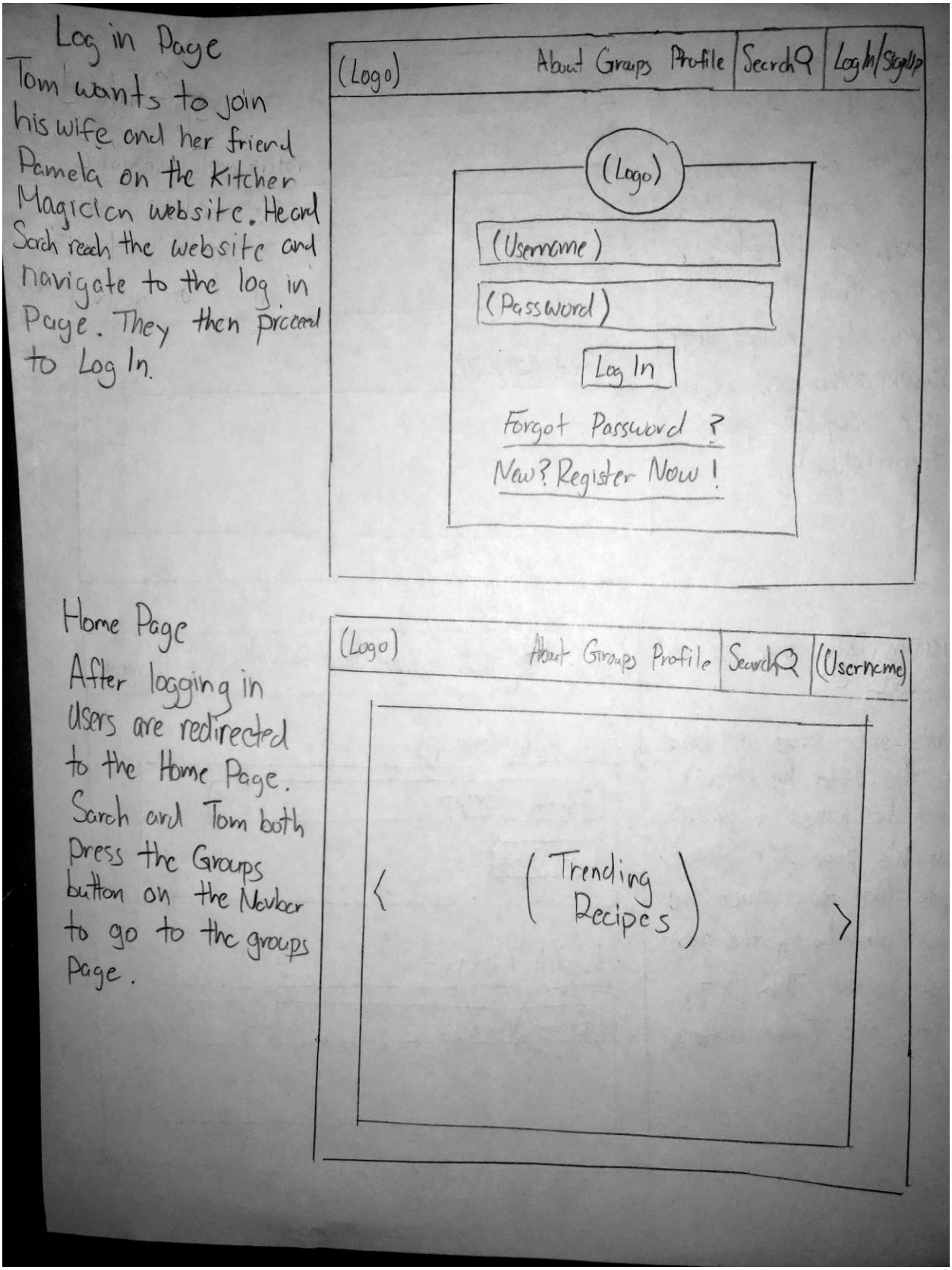
Pamela then proceed to search for the recipe she likes



Pamela tells her friend Sarah about Kitchen Magician and expresses how much she liked the website

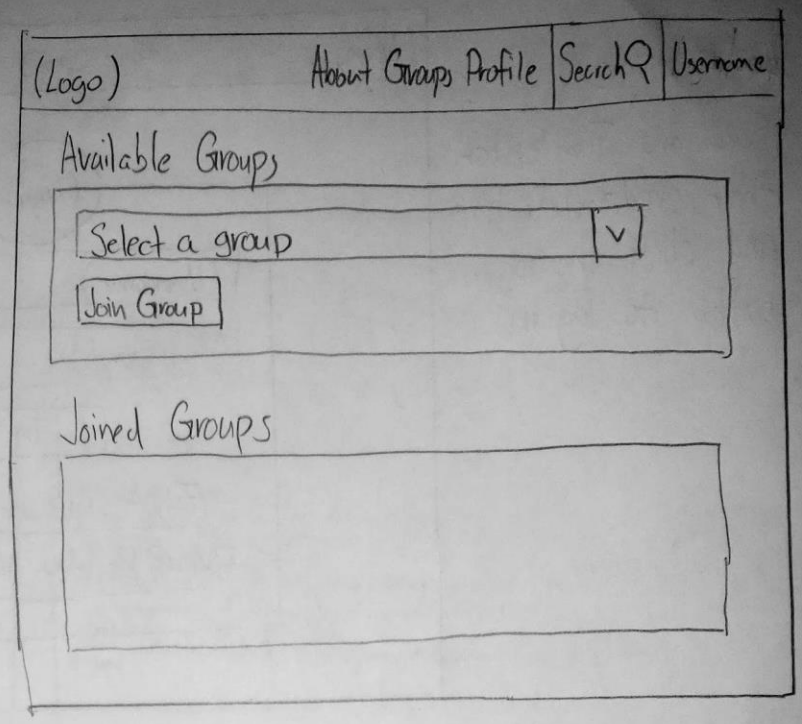


Tom and Sarah Mockup:



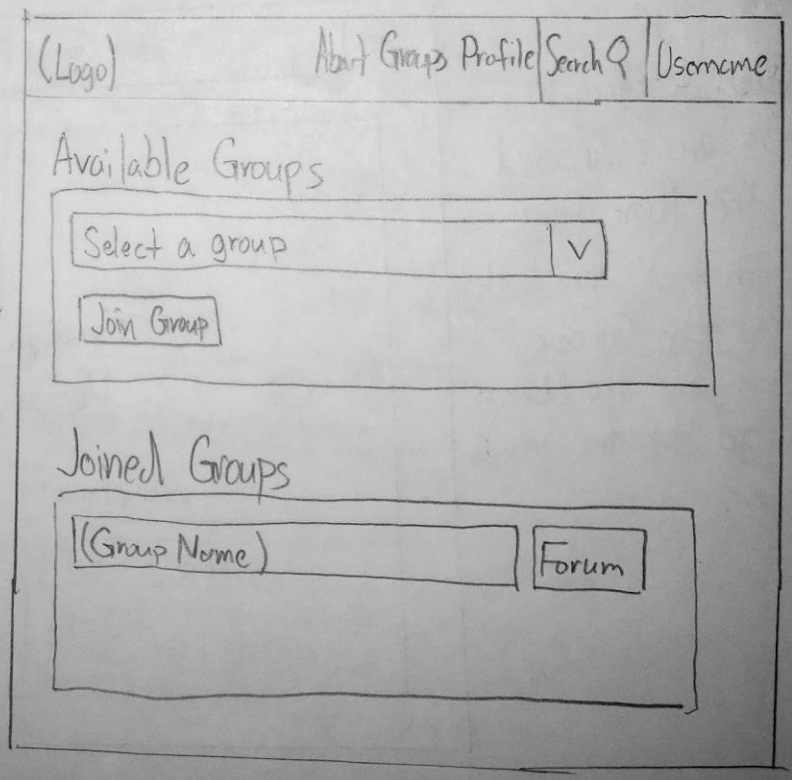
Groups Page

Tom lands on this "Version" of the groups Page because he isn't a group yet. He selects a group from the available groups drop down menu and clicks Join group. The page then reloads.



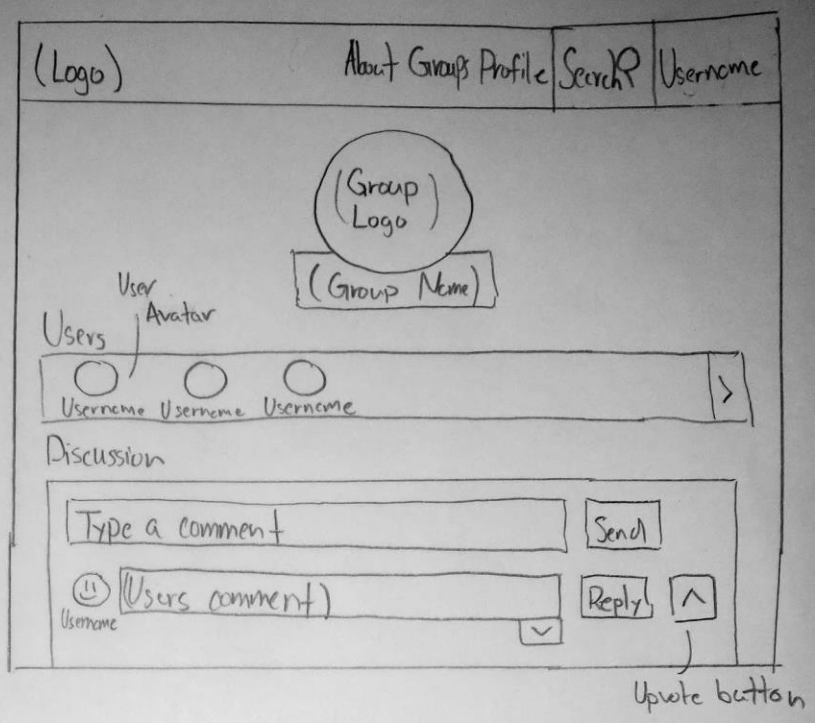
Groups Page once joined a group.

Tom's group page will look like this after his reload. Since he joined a group. Sarah's page will already look like this since she was already in the group Tom joined. They both press the Forum button.



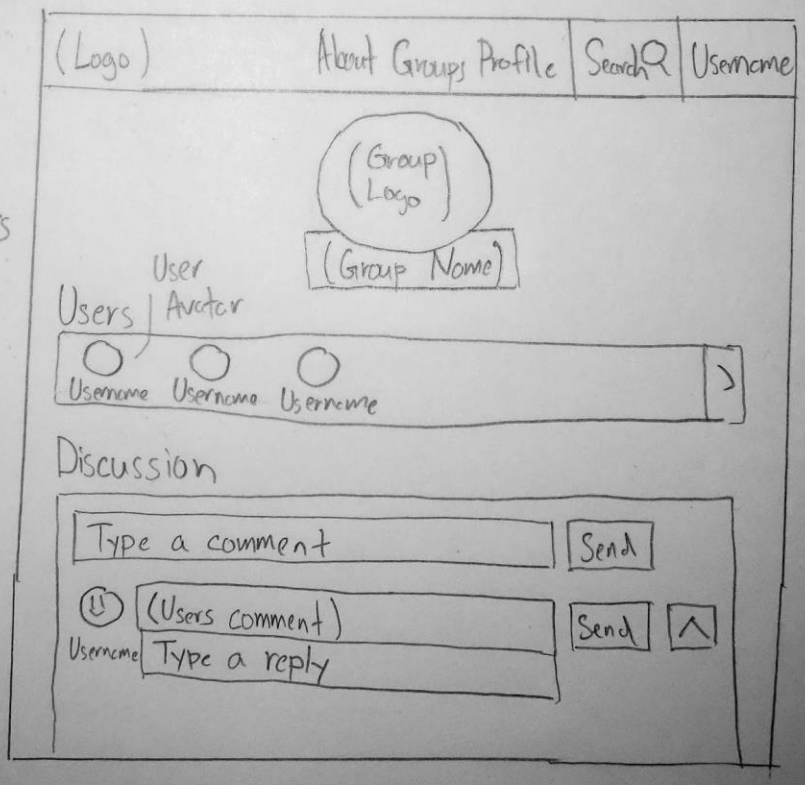
Group Forum Page
Tom arrives at this page and types his question in the comment section.

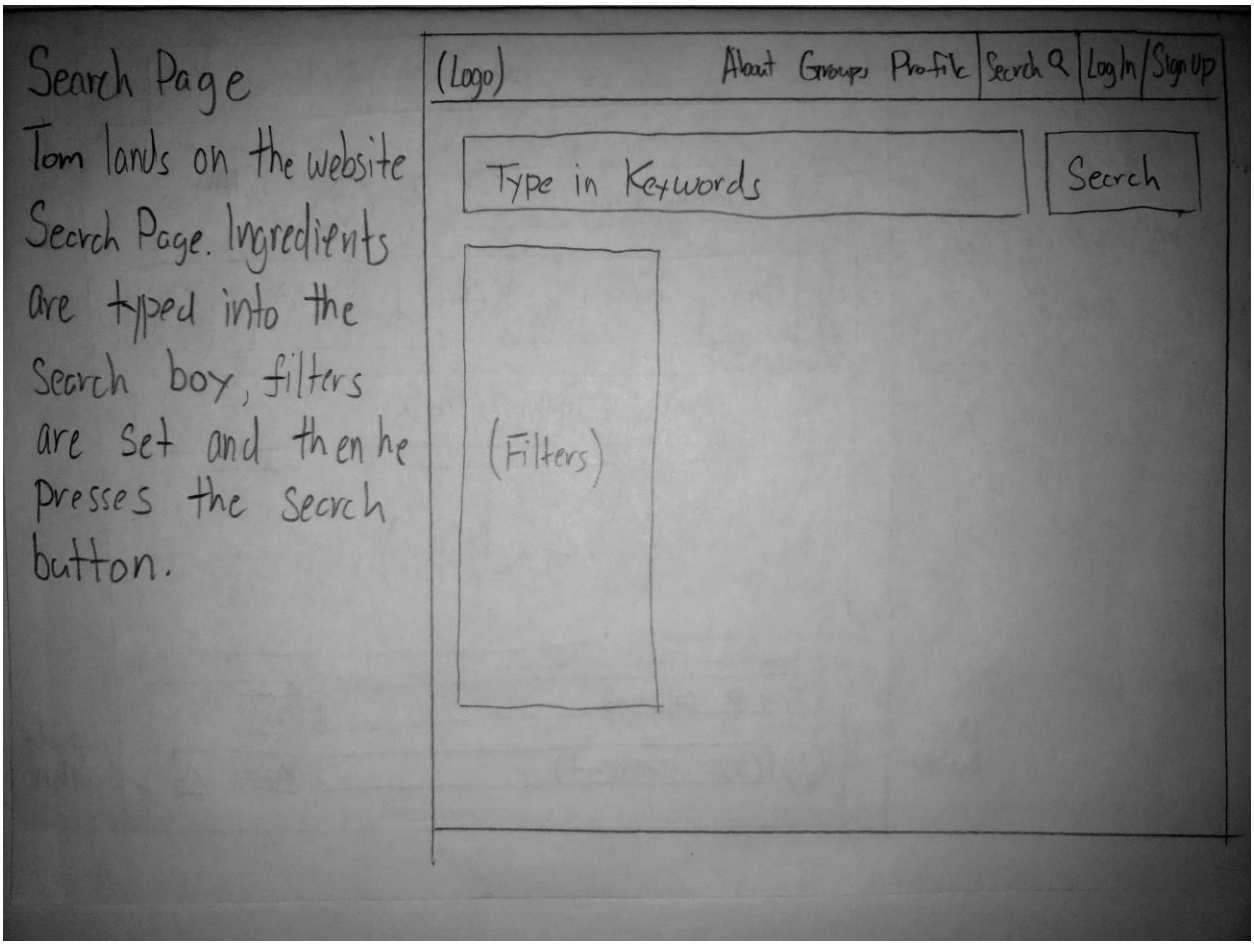
Tom then arrives at this page later to see Sarah's comment via the expand button under the original comment. He then clicks on the search button on the Navbar to go to the search page.



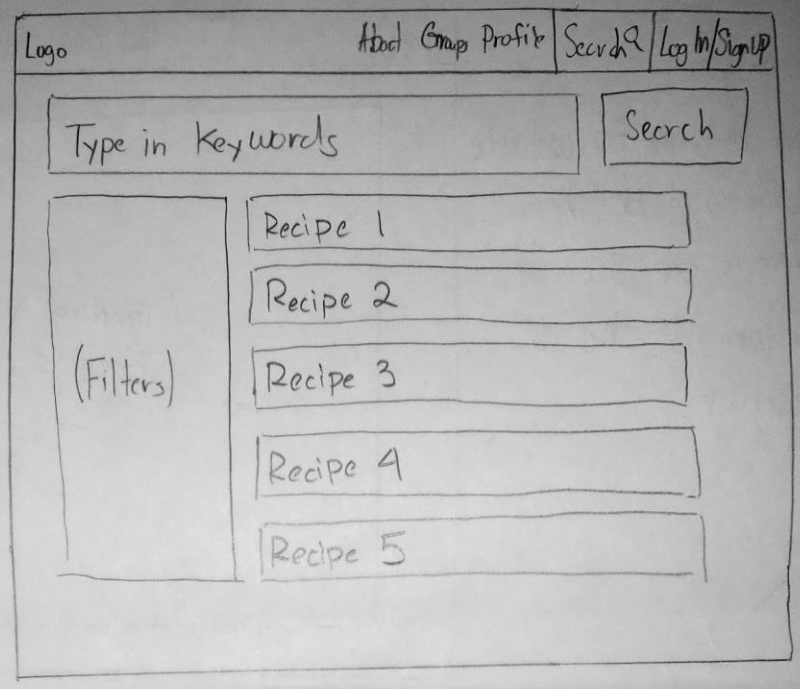
Group Forum Page replying to comment

Sarah arrives and sees Tom's comment and replies to it by clicking the reply button, typing her reply in, and pressing send.

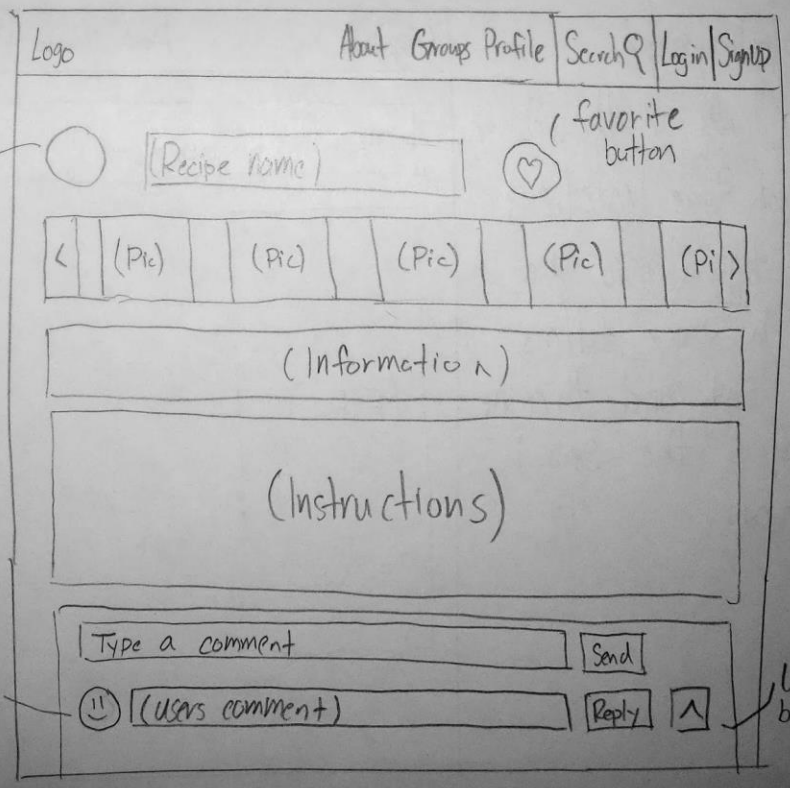



Search Page
Tom lands on the website Search Page. Ingredients are typed into the Search boy, filters are set and then he presses the Search button.
(Logo)
About
Groups
Profile
Search
Log In
Sign Up
Type in Keywords
Search
(Filters)

Search Page with Results.
The page refreshes with a list of recipe results. Tom clicks on the first recipe.



Recipe Page
Tom lands on the corresponding recipe's page



Section 4: High Level Database Architecture and Organization

Part 1: Business Rules

1. A registered user shall be able to favorite zero or many recipes.
    a. A recipe shall be able to be favorited by zero or many registered users.
2. A registered user shall be able to comment on zero or many recipes.
    a. A recipe comment section shall be able to be commented by zero or many users.
3. A registered user shall be able to join zero or many groups.
    a. A group can have zero or many registered users.
4. A group can contain zero or many recipes.
    a. A recipe shall belong to zero or many groups.
5. A register user shall have zero or many comments.
    a. A comment shall belong to one registered user.
6. A recipe can have one or many recipes information.
    a. A recipes information shall belong to one recipe.
7. A recipe can have one or many recipes instructions.
    a. A recipes instruction shall belong to one recipe.
8. A recipe can have one or many recipe images.
    a. A recipe image shall belong to one recipe.
9. A recipe can have zero or one recipe video.
    a. A recipe video shall belong to one recipe.

Part 2: High level explanation

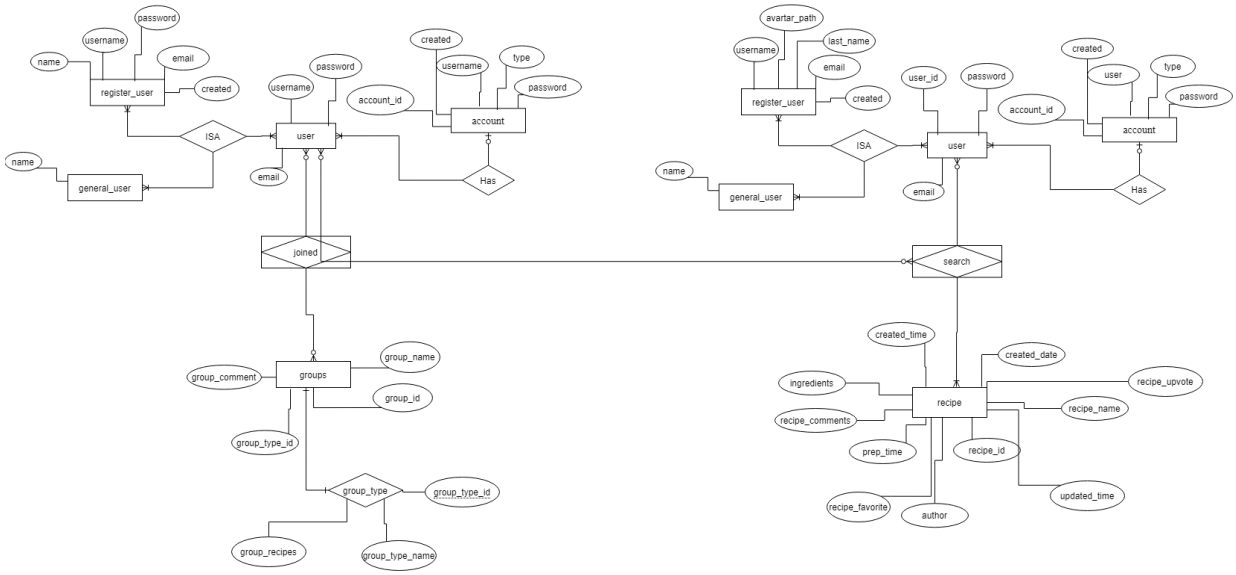
Entities: The ERD model consists of users, groups, recipes, group_recipes, recipes_comments,comments_reports,groups_comments,recipes_favorite, recipes_upvote.
Attributes: The attributes for the Entity Users are: id, user_name, email, password, avatar_path, created.
The attributes for Entity Groups are: id, group_name, group_type_id.
The attributes for Entity Recipes: id, name, user_id, preparation_time, created, updated
The attributes for Entity Group_Recipes are: id, recipe_id, group_id.
The attributes for Entity Recipes_Comments are: id, user_id
The attributes for Entity Groups_Comment are: id, user_id, group_id, comment, created.
The attributes for Entity Recipes_Favorite are: id, user_id, recipe_id
The attributes for Entity recipes_upvote are: id, user_id, recipe_id

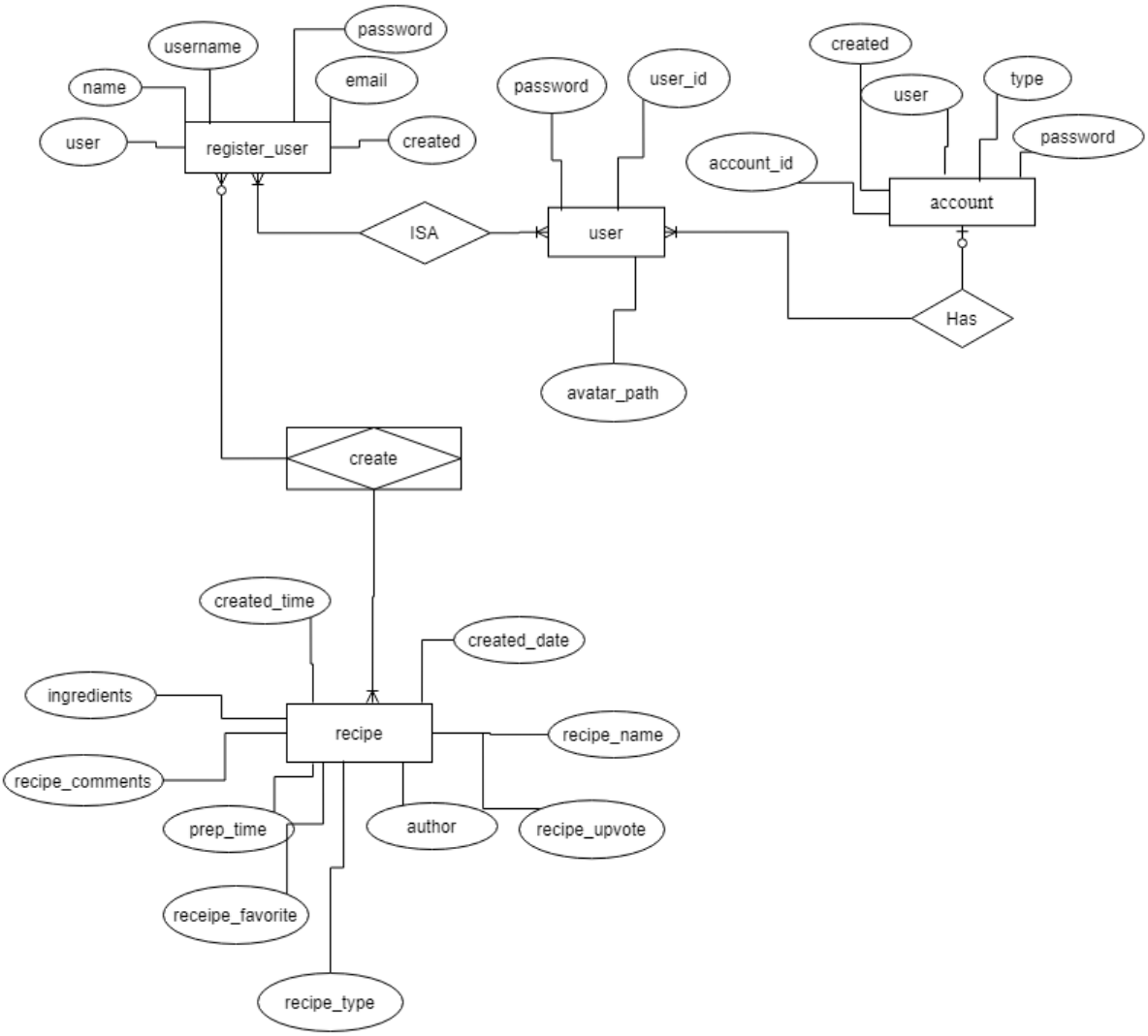
The relationships in the ERD consist of users being able to create a profile that will allow users to join groups. The groups will consist of recipes and each group will consist of different types. The groups will have comments between users as well. We also have a recipe page that will allow users to favorite recipes so it is stored in their favorites. The recipes can also be upvoted

by users. Recipes will be of different types and shall include recipe ingredients, recipe information, recipe instruction, recipe image and recipe video. Users shall also be allowed to comment on the recipes.

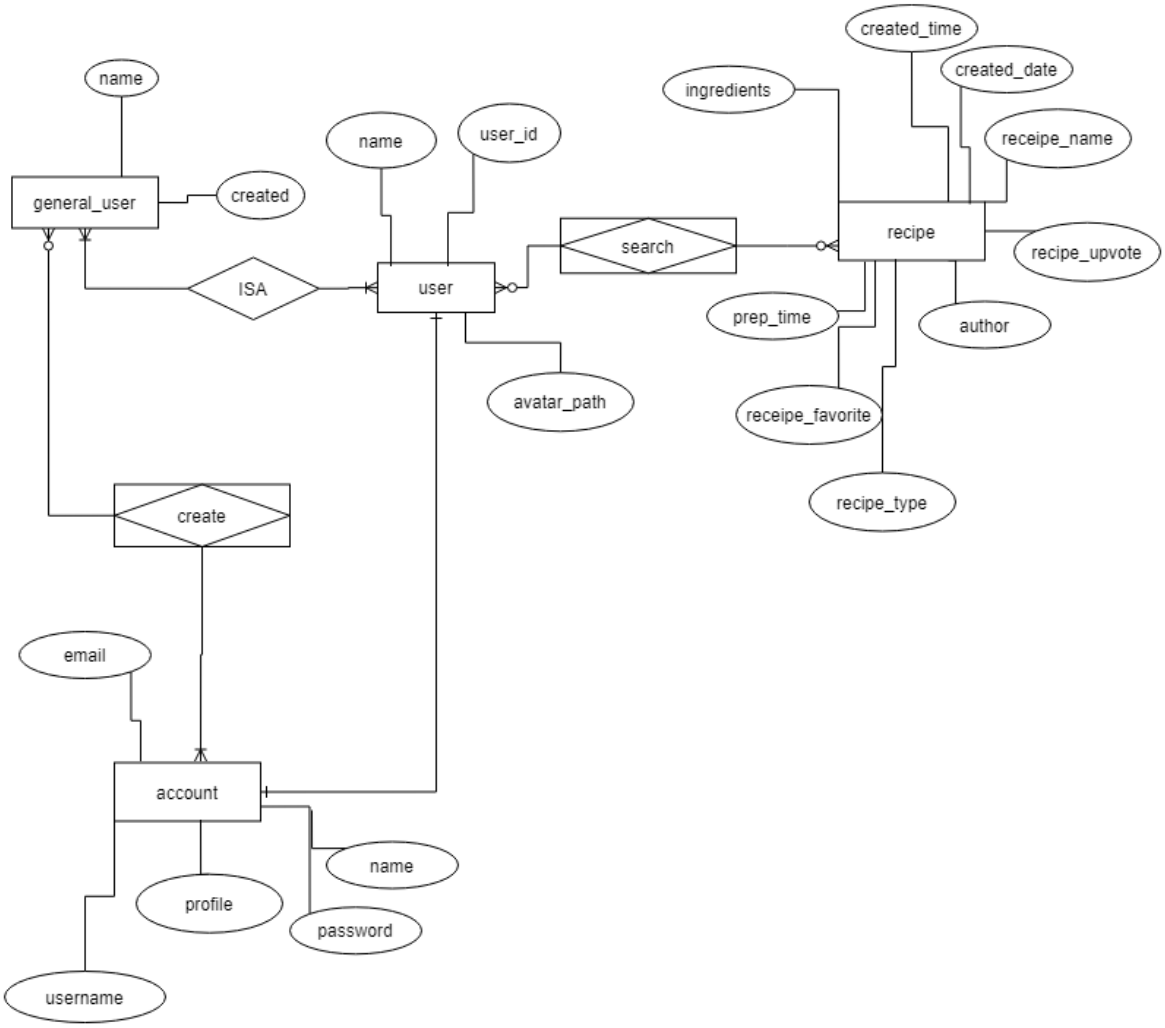
Part 3: Database Model

ERD Diagram:

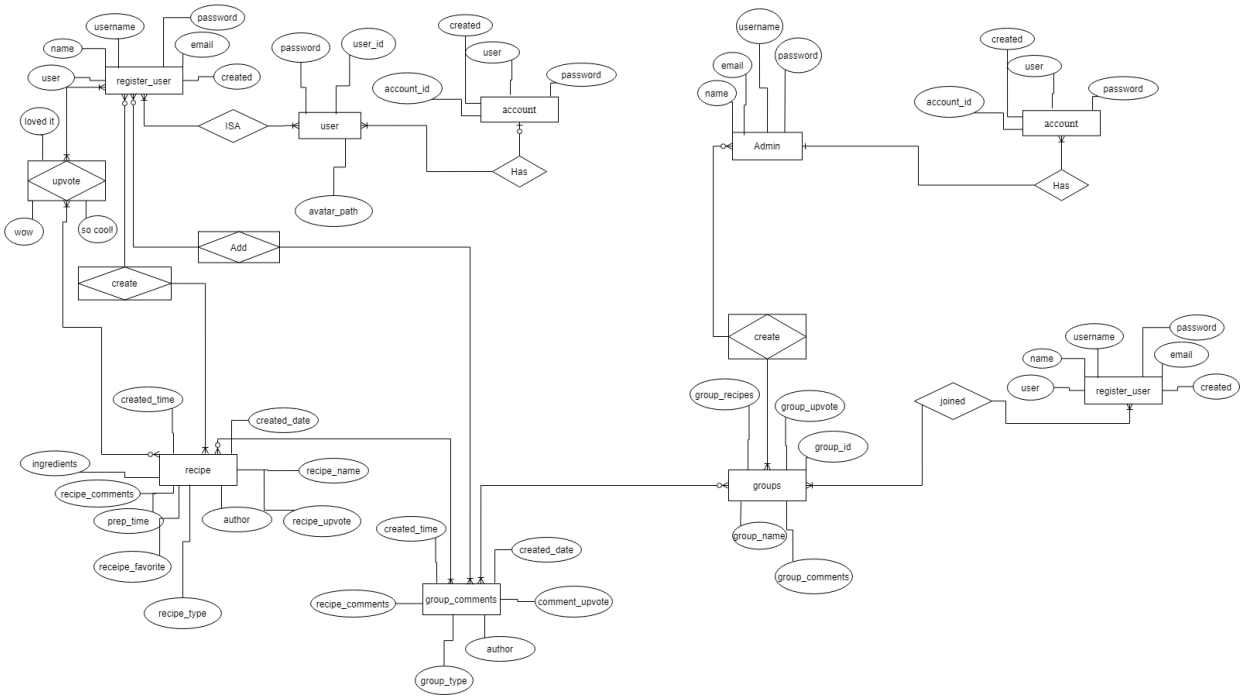




ERD Diagram cont.

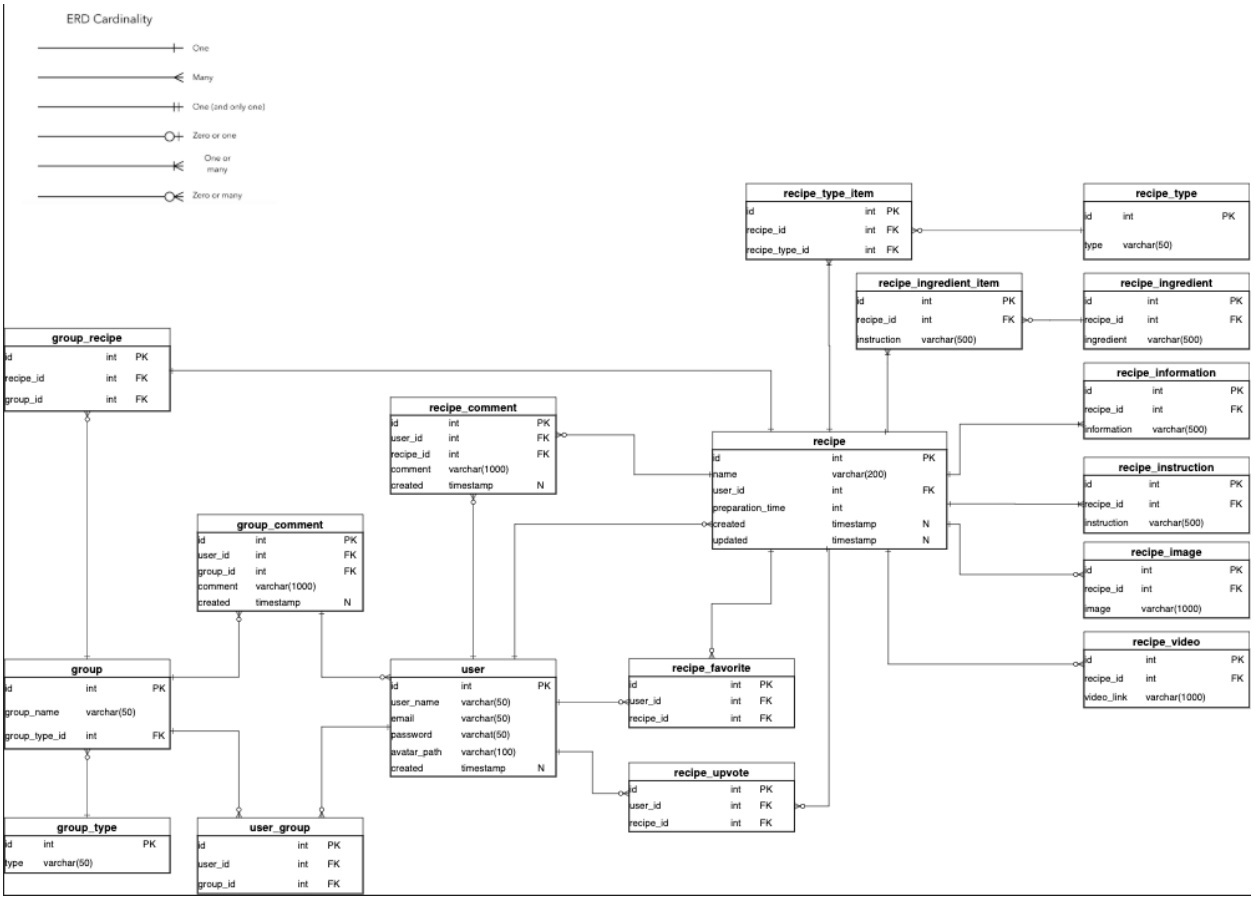


ERD Diagram cont.



ERD Diagram cont.

EER Diagram:



Part 4: High level explanation

MySQL is the open source database management system used in this application because of its speed, flexibility and reliability.

Section 5: High Level APIs and Main Algorithms

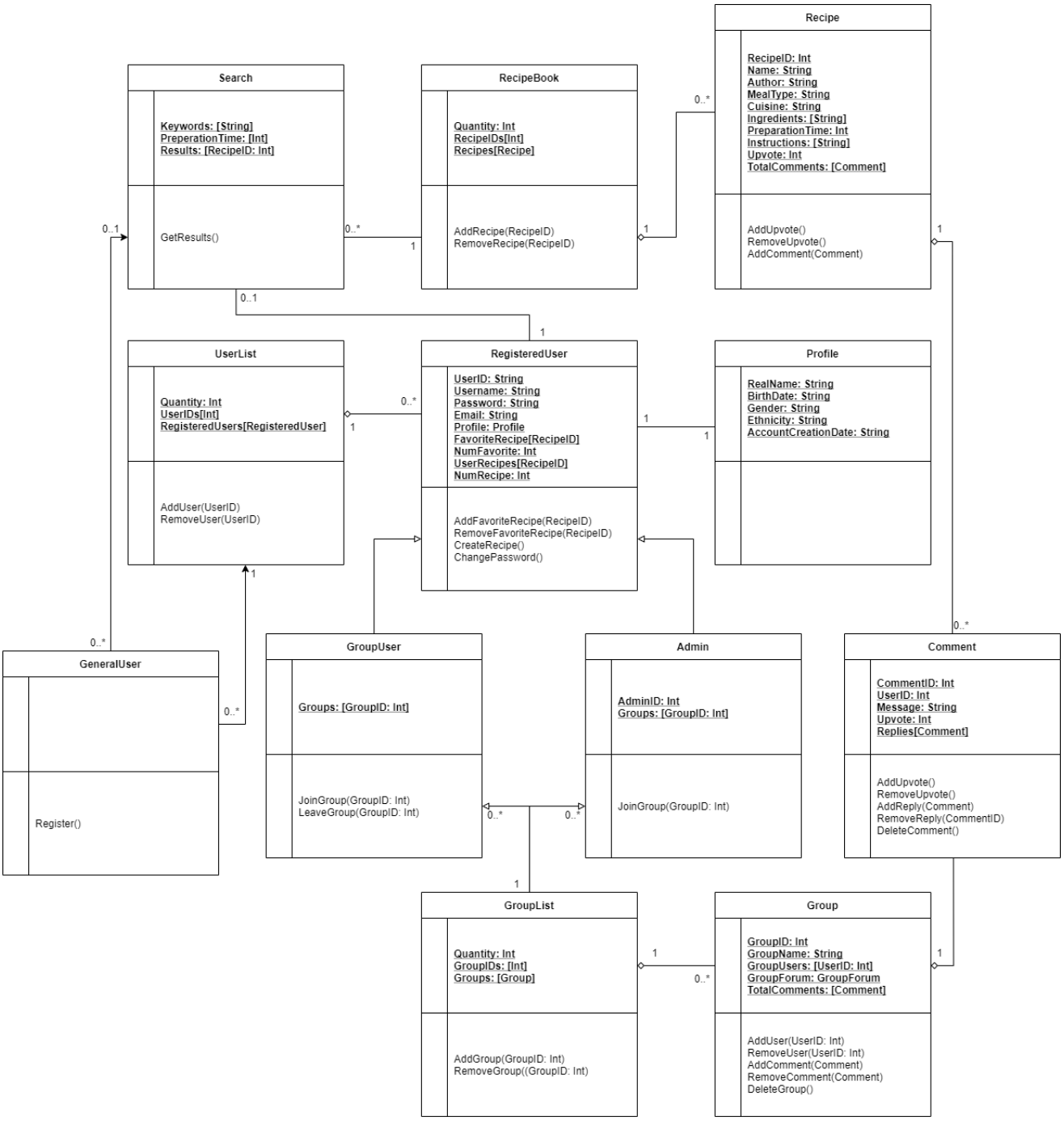
Trending Recipe Algorithm:
For our Home Page we plan on having a slideshow that displays the five most popular Recipes our service has. We will figure out these five recipes by identifying which five recipes in our database have the most upvotes. Each recipe will have an upvote variable that will increase by one whenever a registered user clicks the upvote button on that recipe's page. We will have a function that sorts each recipe by the ones with the highest upvote number. Each time any recipe's upvote variable changes, the function will sort once again. The top five will be taken for display on the Home Page in the trending recipes slideshow.

Search Algorithm:
The search algorithm we will be implementing has two parts.

Case 1: existence of the filter name indicating the search is being conducted through the navigation bar via form input (0 or 1).
All existing criteria (i.e. name) will be initialized with the default value of "NONE," i.e. filter and keyword.
If no criterion has been chosen, a search of all available criteria will be conducted, permitted by the use of Q library, which enables simultaneous querying, i.e. OR.
Otherwise, a single-criterion (of all available criteria search) signified by the keyword name will be conducted, in which case the use of Q library is not required, but implemented as such for consistency.

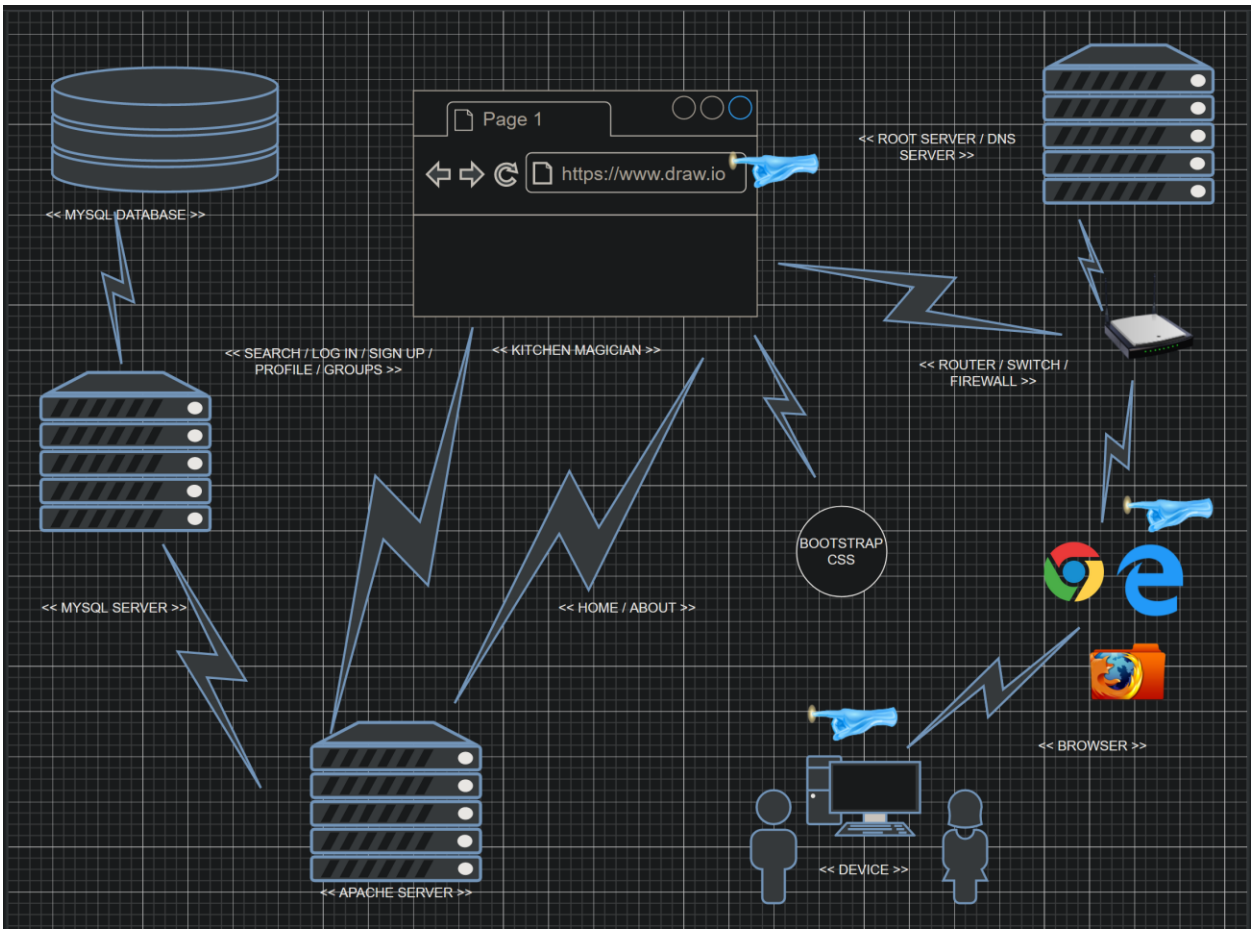
Case 2: absence of the filter name indicating the search is being conducted through the search page.
All existing criteria (i.e. name) will be initialized with default value of "NONE" to prevent unconditional querying of the entire database. All existing criteria can be changed via user input via form input. Independent of number of user input via the form (0 to current max of 3), a OR search of all available criteria will be carried out using the Q library, i.e. OR.

Section 6: High Level UML Diagrams

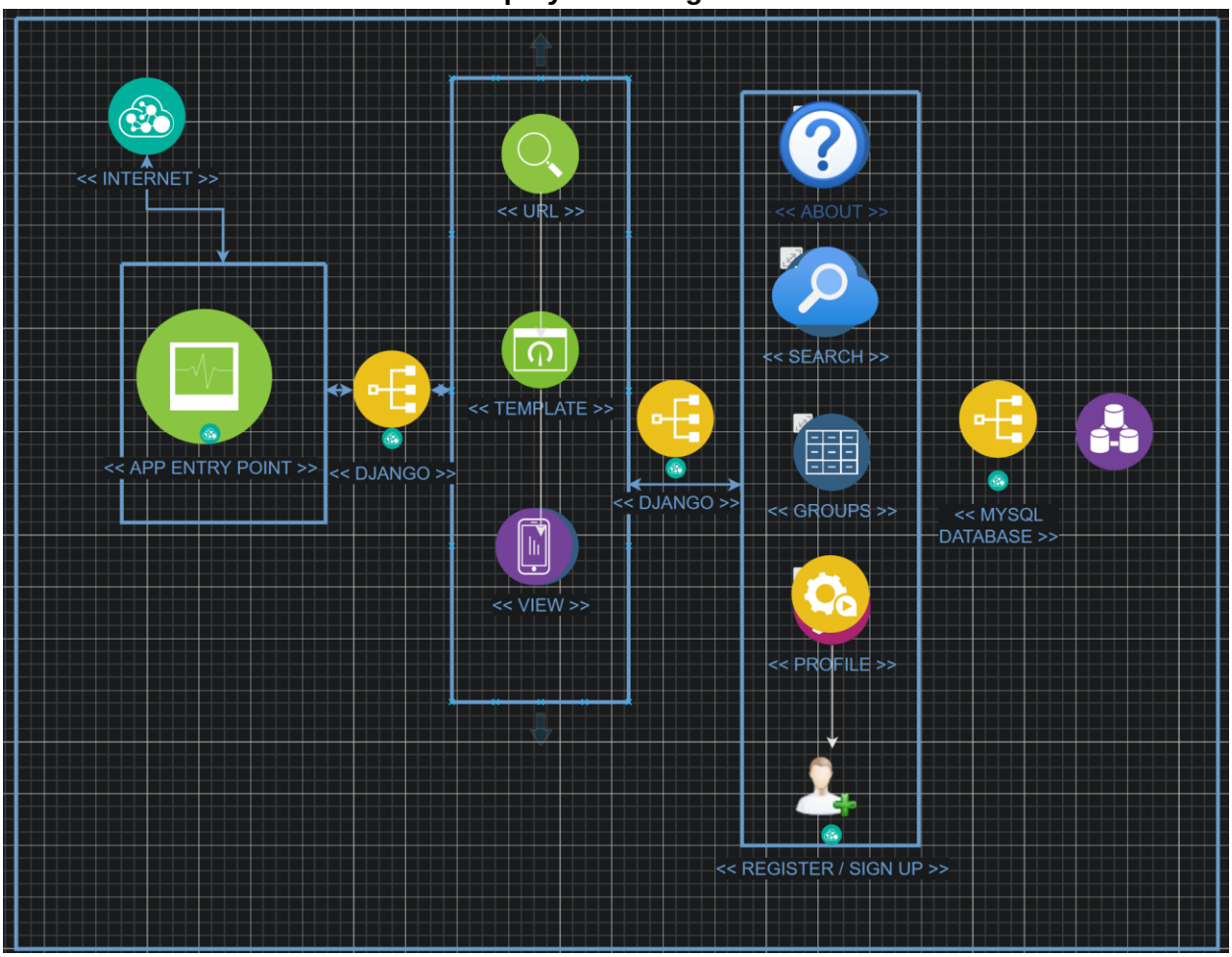


Section 7: High Level Application Network and Deployment Diagrams

Application Network Diagram:



Deployment Diagram:



Section 8: Identify Actual Key Risks For Your Project At This Time

1. Skills: Many of us aren't familiar with Django and some of us aren't familiar with HTML and CSS. A solution to this problem would be to help and assist members who are having trouble working with whatever language they aren't familiar with.

2. Schedule: A lot of us can be busy with our other courses when it comes to making pop-up meetings when we need to talk about a certain topic. A solution to this problem would be setting up a third meeting in the week that works with everyone's schedule.
3. Technical: One issue that we ran into was that for our project we wanted to run Django in Python 3.8+. However, some individuals are in classes where their python version needs to specifically be an earlier version, causing conflicts. The solution to this would either be making sure everyone knows how to make their own python environments or know how to constantly change their PATH settings. Another solution to this problem would be creating different Python environments for each project. Each environment will be able to hold many dependencies that will be isolated from other Python environments. Compatibility issues between different projects can be avoided this way.
4. Teamwork: We are still getting used to working as a team and miscommunication still occurs. Meetings are getting better but still nowhere near the productivity of in-person meetings. I think utilizing a task management tool will help increase productivity and minimize confusion around project assignments and make meetings go through smoother.
5. Legal/Content: A risk for our project would be keeping original content original. Since it's a community based website, we might face copyright issues if a user were to publish a recipe from an author and claim it as their own. One thing we could possibly do to remedy this is to provide an email that people who have proof of plagiarism can contact us with and then have an admin take down the plagiarized content.

Section 9: Project Management

For Milestone 2, we didn't manage tasks in an efficient way. Tasks would be assigned to members at the end of meetings, but sometimes we wouldn't know who has finished their tasks unless they were checked up on individually. Some members had family emergencies and were having trouble completing their work, but I wasn't aware of their situation until I checked up

with them privately. It led to some things not being as polished as other parts of the milestone. I also think we tunnel visioned on some parts of the project that didn't need much attention. For example, we spent a lot of time deciding on the basic format of our website. In retrospect, I believe that we could've better utilized our time in other sections of the project such as the vertical prototype. I think incorporating a task management tool will help the whole team get a better idea of all the work that needs to be done. It will also help us plan how much time we need to dedicate to different parts of our project. The task management tool will help the whole team be on the same page. We will be able to see who is assigned what, who has finished their tasks, and who might need some assistance with their work.

Section 10: Detailed List of Contributions

1. Nicole Pang
    a. Set up meetings, attended most meetings, sorted priority 2 and 3 functional requirements, gave feedback on mockups, gave feedback on database model, gave feedback on business rules, wrote section 9, wrote section 10, created interconnected story for mockups
2. Jeff Cheng

   a. Attended all meetings, created alice mockup, applied mockup feedback, created deployment diagram, created application network diagram, worked on section 5 explanations, implemented base search algorithm, assisted with section 8, helped implement trending recipe algorithm, updated Alice mockup
3. Allen Sun
   a. Attending all meetings, sorted and expanded priority 1 functional requirements, created Emma mockup, created applied mockup feedback, assisted with creation of business rules, created erd from business rules, created database for vertical prototype, deploying the website, helped implement search algorithm, helped with trending search algorithm outline, helped with vertical prototype, delped debug code, updated Emma mockup
4. Paul Asu
   a. Attended most meetings, created Pamela mockup, applied mockup feedback, updated Pamela mockup, worked on ERD Diagram
5. Kevin Wei
   a. Attended all meetings, assisted in running meetings, expanded data definitions, created Tom and Sarah mockup, created Jim mockup, applied mockup feedback, created high level uml diagram, worked on section 5 explanations, assisted with vertical prototype by helping debug code, assisted with section 8, helped implement search algorithm, implemented drop down search parameter functions, user interface implementation, exported m2 pdf, Updated Jim and Tom and Sarah mockup
6. Kevin Ortiz
   a. Attended most meetings, assisted in running meetings, created Kite mockup, created Andrew mockup, applied mockup feedback, created business rules, worked on section 5 explanations, helped implement search algorithm, helped debug code, updated Andrew and Kite mockup, worked on ERD Diagram

Kitchen

Magician

SW Engineering CSC648/848

FALL 2020

Team 01

Kevin Wei (Team Lead) : kwei3@mail.sfsu.edu

Allen Sun (Backend Lead)

Paul Asu (Github Master)

Nicole Pang (Developer)

Kevin Ortiz (Developer)

Jeff Cheng (Frontend Lead)

Milestone 3

History Table

Version	Date
M3V2	11/20/2020
M3V1	11/19/2020
M2V2	11/18/2020
M2V1	11/01/2020
M1V2	10/08/2020
M1V1	10/01/2020

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Section 1: Data Definitions V3

1. Unregistered User: Does not have to log in. Can register. Does not have a profile. Is able to browse the website including the home page, about page, search page, profiles of other users, and recipes (through search). Does not have access to groups and cannot join one, and cannot favorite or comment.
2. Registered User: Has to log in using their username and password to use specific functions that are available to Register User. Has a profile. Is able to browse the website including the home page, about page, search page, profiles of other users, own user

profile, recipes (through search), and groups page. Can join a group, but is not yet part of any. Can favorite and comment. Can log out of account.

a. UserID
b. Username
c. Password
    i. Password must contain at least 8 characters.
    ii. Password can't be entirely numeric.
d. Profile
e. Email
    i. Email must be unique.
f. Favorite Recipes
g. Number of Favorite Recipes
h. User Recipes
i. Number of User Recipes

3. Group User: A subclass of Registered User. Has to log in using username and password to use specific functions that are available to Register User and/or Group User. Has a profile. Is able to browse the website including the home page, about page, search page, profiles of other users, own user profile, recipes, and groups page. Is already a part of a specific group, but can join up to X groups. Groups to which they belong grants the Group User access to the specific group's corresponding group forum, and can comment in the forum. Can favorite and comment. Can log out of account.
    a. UserID
    b. Username
    c. Password
    d. Profile
    e. Email
    f. Favorite Recipes
    g. Number of Favorite Recipes
    h. User Recipes
    i. Number of User Recipes
    j. Groups
4. Admin: A subclass of Registered User. Can log in using their username and password to use specific functions that are available to Admin, Group User, and/or Registered User. Has a profile. Is able to browse the website including the home page, about page, search page, profiles of other users, own user profile, recipes, and groups page. Already is a part of every group and thus has access to all group forums to monitor activity in each. Can favorite and comment. Can delete other users' comments and recipes at their discretion. Can log out of account.
    a. UserID
    b. AdminID

   c. Username
   d. Password
   e. Profile
   f. Email
   g. Favorite Recipes
   h. Number of Favorite Recipes
   i. User Recipes
   j. Number of User Recipes
   k. Groups
5. Profile: A supporting class of Registered Users and its derived classes. Contains all information concerning the class instance, i.e. Register User/Group User/Admin. Functionalities, such as the password reset is only available to the user with whom the profile is associated.
   a. Username
   b. Avatar
   c. Email
   d. Account Creation Date
6. Recipe: The most vital component of the project, a collection of recipes. A complete guide to a dish made by registered, group, or admin users. Contains all the information below and registered/group/admin users can comment, upvote them, and favorite them. The 3-4 recipes with the most upvotes will be considered trending and will be displayed on the home page.
   a. Name
   b. RecipeID
   c. Author
   d. Meal Type
   e. Cuisine
   f. Ingredients
   g. Preparation Time
   h. Cooking Time
   i. Instructions
   j. Picture
      i. Max Size
   k. Optional Video
      i. Max Size
   l. Favorites
   m. Comments
7. Comment: Text that can be given by Registered User/Group User/Admin to any recipe, comment, or post in group forums to display their opinion on the respective content.
   a. CommentID

   b. UserID
   c. Message
   d. Upvotes
8. Search: Class that allows any user to filter down and specify what it is they are actually looking for in a recipe. Once filters and search words are applied and users click search, the results will appear on the same page below to filters.
   a. Results
   b. Keywords
      i. Name
      ii. Author
      iii. Courses
      iv. Occasions
      v. Ingredients
      vi. Preparation Time
      vii. Cooking Time
      viii. Diet
         1. Vegan Group
         2. Keto Group
         3. Vegetarian Group
         4. Gluten Free Group
         5. Pescatarian Group
         6. Paleo Group
         7. Low Carb Group
         8. Raw Diet
9. Group: A collection of users categorized by specific dietary needs. Registered users can go to the *overall* groups page to join a specific group. Once they have selected and joined a group, on that groups page they will gain access to the group forum of the group that they joined (and become a group user). They can join more groups up to a maximum of X groups. In the group forum page there will be a displayed list of users in the group, by username, and the post section. Group users will be able to converse and chat in this section with other group users users of the specific group forum. These group users can also comment and upvote in the posts section.
   a. GroupID
   b. Group Name
   c. Group Users
   d. Comments
   e. Total Comments

Section 2: Functional Requirements V3

Priority 1:

General User:

1. Unregistered Users shall be able to register for an account.
2. Unregistered Users shall register for an account using a registration form.
    2.1. Unregistered Users shall see a user friendly registration form.
    2.2. Unregistered Users shall see a login link in the registration form.
3. Unregistered Users shall provide an email when registering for an account.
    3.1. Unregistered Users shall provide a valid email when registering for an account.

3.1. Unregistered Users shall provide a unique email when registering for an account.
4. Unregistered Users shall provide a username during registration.
6. Unregistered Users shall verify the password when registering for an account.
6.1. Unregistered Users shall provide the password when registering for an account.
6.2. Unregistered Users shall confirm the password when registering for an account.
7. Unregistered Users shall see a navigation bar on all pages.
7.1. Unregistered Users shall see a search bar on the navigation bar on all pages.
7.2. Unregistered Users shall see a footer on all pages.
9. Unregistered Users shall be able to search for recipes.
9.1. Unregistered Users shall be able to narrow down their search using filters.
10. Unregistered Users shall be able to view recipes.
10.1 Unregistered Users shall be able to view trending recipes on the home page.

Registered User:

13. Registered User shall be able to log in with a valid username.
14. Registered User shall be able to log in with a valid password.
15. Registered User shall be able to log out.
16. Registered User shall have only one profile page.
16.1 Registered User shall see favorite recipes on the profile page.
16.2 Registered User shall see its own recipes on the profile page.
22. Registered User shall see a navigation bar on pages.
22.1. Registered User shall see an input search on the navigation bar on all pages.
22.2 Registered Users shall see a footer on all pages.
23. Registered User shall be able to search for recipes.
23.1 Registered Users shall be able to narrow down their search using filters.
24. Registered User shall be able to view recipes.
24.1 Registered Users shall be able to view trending recipes on the home page.
25. Registered User shall be able to create their own recipes.
25.1 Registered User shall be able to upload images for recipes.
25.2 Registered User shall be able to select courses for recipes.
25.3 Registered User shall be able to select occasions for recipes.
25.4 Registered User shall be able to select courses for recipes.
25.5 Registered User shall be able to select preparation time for recipes.
25.6 Registered User shall be able to select cooking time for recipes.
25.7 Registered User shall be able to add ingredients for recipes.
25.8 Registered User shall be able to add information for recipes.
25.9 Registered User shall be able to add title for recipes.
25.10 Registered User shall be able to add instructions for recipes.
31. Registered User shall be able to add a comment on any recipe.
35. Registered User shall be able to favorite a recipe.
37. Registered User shall be able to view existing groups.

37.1. Registered User shall be able to join a group.

37.2. Registered Users shall be able to view group forums.

37.3. Registered Users shall be able to see users in the group of the corresponding group forum.

Admin:

39. Admin shall be able to log in with a valid username.
40. Admin shall be able to log in with a valid password.
41. Admin shall be able to log out.
42. Admin shall have a profile page.
43. Admin shall be able to change their password.
47. Admin shall see a navigation bar on all pages.
    47.1 Admin shall see a navigation bar on all pages.
    47.2 Admin shall see a different navigation bar on the administration page.
49. Admin shall be able to search for recipes.
    49.1 Admins shall be able to narrow down their search using filters.
50. Admin shall be able to view recipes.
    50.1 Registered Users shall be able to view trending recipes on the home page.
51. Admin shall be able to create their own recipes.
    51.1 Registered User shall be able to upload images for recipes.
    51.2 Registered User shall be able to select courses for recipes.
    51.3 Registered User shall be able to select occasions for recipes.
    51.4 Registered User shall be able to select courses for recipes.
    51.5 Registered User shall be able to select preparation time for recipes.
    51.6 Registered User shall be able to select cooking time for recipes.
    51.7 Registered User shall be able to add ingredients for recipes.
    51.8 Registered User shall be able to add information for recipes.
    51.9 Registered User shall be able to add title for recipes.
    51.10 Registered User shall be able to add instructions for recipes.
52. Admin shall be able to change contents of their own recipes.
    52.1. Admin shall be able to change any text of their own recipes.
    52.2. Admin shall be able to change any picture of their own recipes.
    52.3. Admin shall be able to change any video of their own recipes.
53. Admin shall be able to delete any recipes.
57. Admin shall be able to add a comment on any recipe.
    57.1. Admin shall be able to delete any comment.
59. Admin shall be able to favorite a recipe.
62. Admin shall be able to delete a group.
63. Admin shall be able to reset password for all users.
64. Registered User shall be able to view existing groups.
    64.1. Registered User shall be able to join a group.

64.2. Registered Users shall be able to view group forums.

64.3. Registered Users shall be able to see users in the group of the corresponding group forum.

Recipe:

66. A recipe shall have a title.
67. A recipe shall have one or more recipe categories to be added for search.
68. A recipe shall have one or more keywords added for search.
69. A recipe shall have one or more ingredients to be added for search.
70. A recipe shall have one or more directions on how to finish the recipe.
71. A recipe should add zero or one photo.
71. A recipe should have zero or one photo
72. A recipe shall be able to add a link to zero or one video.
73. A recipe will be labeled trending when it is in the top 5 recipes with the most favorites by users.

73.1. A recipe labeled trending will be showcased on the home page.

Group User:

76. Group User shall have all requirements that Registered Users Have
77. Group User shall be able to post to the forum.

77.1 Group Users shall be able to join a group.

77.2 Group Users shall be able to leave a group.

78. Groups users shall be able to see users who are a part of the same group.

Priority 2:

General User:

5. General User shall verify that the email used to register for the account is valid.

Registered User:

17. Registered User shall be able to change visibility of their profile page.
18. Registered User shall be able to change their password.
19. Registered User shall be able to reset their account password.
20. Registered User shall be able to change the avatar for their profile page from the image database.
26. Registered User shall be able to edit their own recipes.
30. Registered User shall be able to upvote any recipe.
32. Registered User shall be able to report a recipe.
33. Registered User shall be able to report a comment.

Admin:

44. Admin shall be able to reset account password at the profile page.
45. Admin shall be able to change the avatar for their profile page from the image database.

56. Admin shall be able to upvote any public recipe.
65. Admin shall be able to delete messages from the group forum.

Group User:

78. Group User shall be able to change visibility of their profile page.
79. Group User shall be able to change their password at the profile page
80. Group User shall be able to reset account password
84. Group User shall be able to change the avatar for their profile page from the image database.
89. Group User shall be able to change contents of their own recipes
    89.1. Group User shall be able to change any text of their own recipes.
    89.2. Group User shall be able to change any picture of their own recipes.
    89.3. Group User shall be able to change any video of their own recipes.

Priority 3:

General User:

8. General User shall see a counter for the total number of registered users on the home page.
11.General User shall be able to share a recipe by email.
12. General User shall be able to download a recipe.
93. General User shall be able to view a Registered User's profile.
94. General User shall be able to report a comment.

Registered User:

21. Registered User shall have an attribute for account creation time at the profile page.
28. Registered User shall have a counter for their number of recipes on their profile page.
29. Registered User shall have a counter for their number of favorite recipes on their profile page.
34. Registered User shall be able to share a recipe by email.
36. Registered User shall be able to download a recipe.

Admin:

46. Admin shall have an attribute for account creation time on their profile page.
48. Admin shall see a counter for the number of registered users, where appropriate.
54. Admin shall have a counter for their number of public recipes on their profile page.
55. Admin shall have a counter for their number of favorite recipes on their profile page.
60. Admin shall be able to download a recipe.
61. Admin shall be able to create a group.

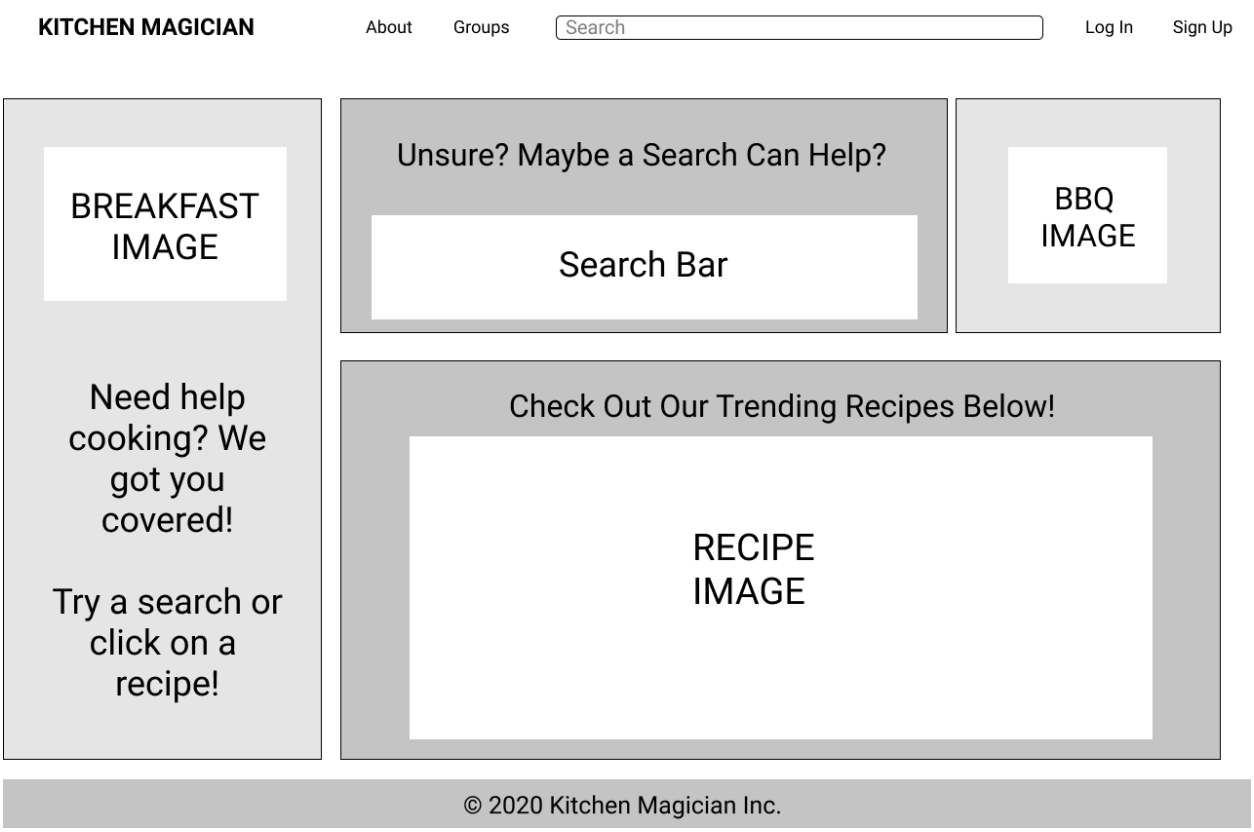
Group User:

85. Group User shall have an attribute for account creation time on their profile page.
90. Group User shall see a counter for the number of registered users, where appropriate.
91. Group User shall have a counter for their number of recipes on their profile page.
92. Group User shall have a counter for their number of favorite recipes on their profile page.

Section 3: Wireframes Based on Mockups/Storyboards V2

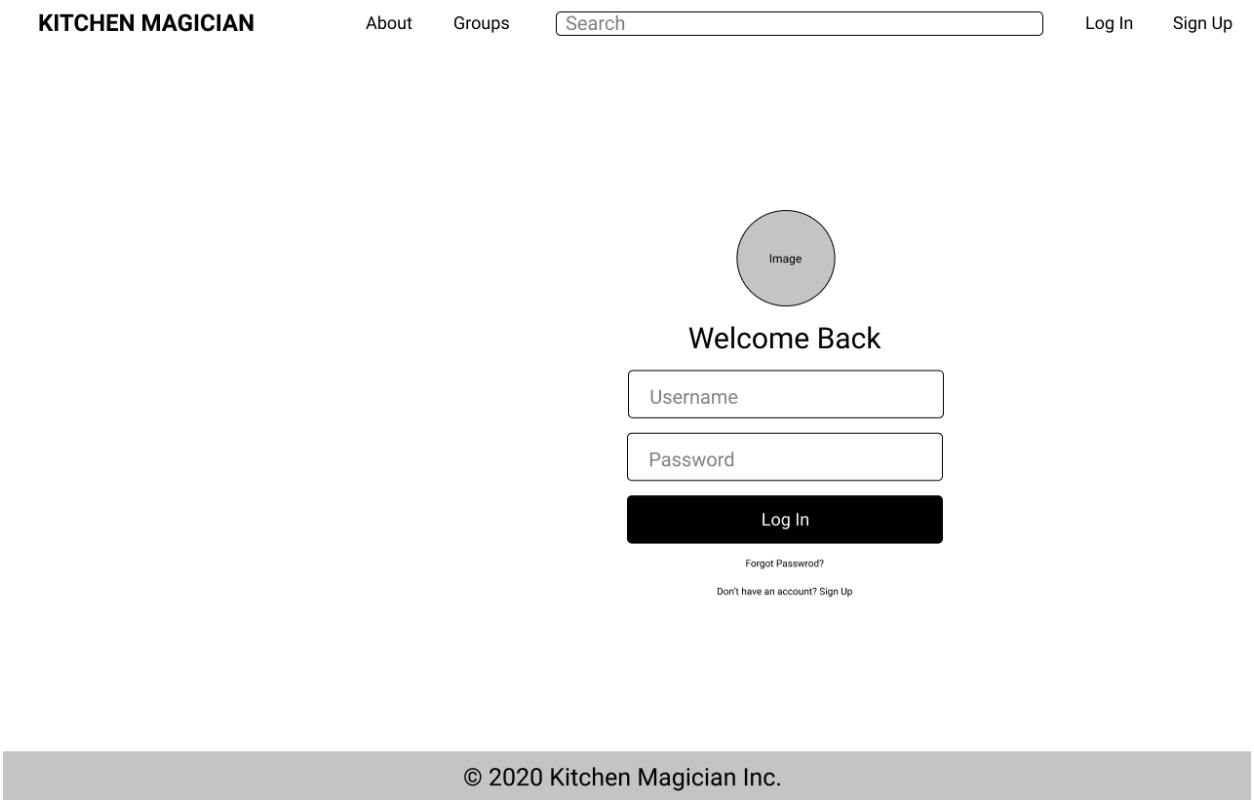
Andrew Storyboard:

Home Page:



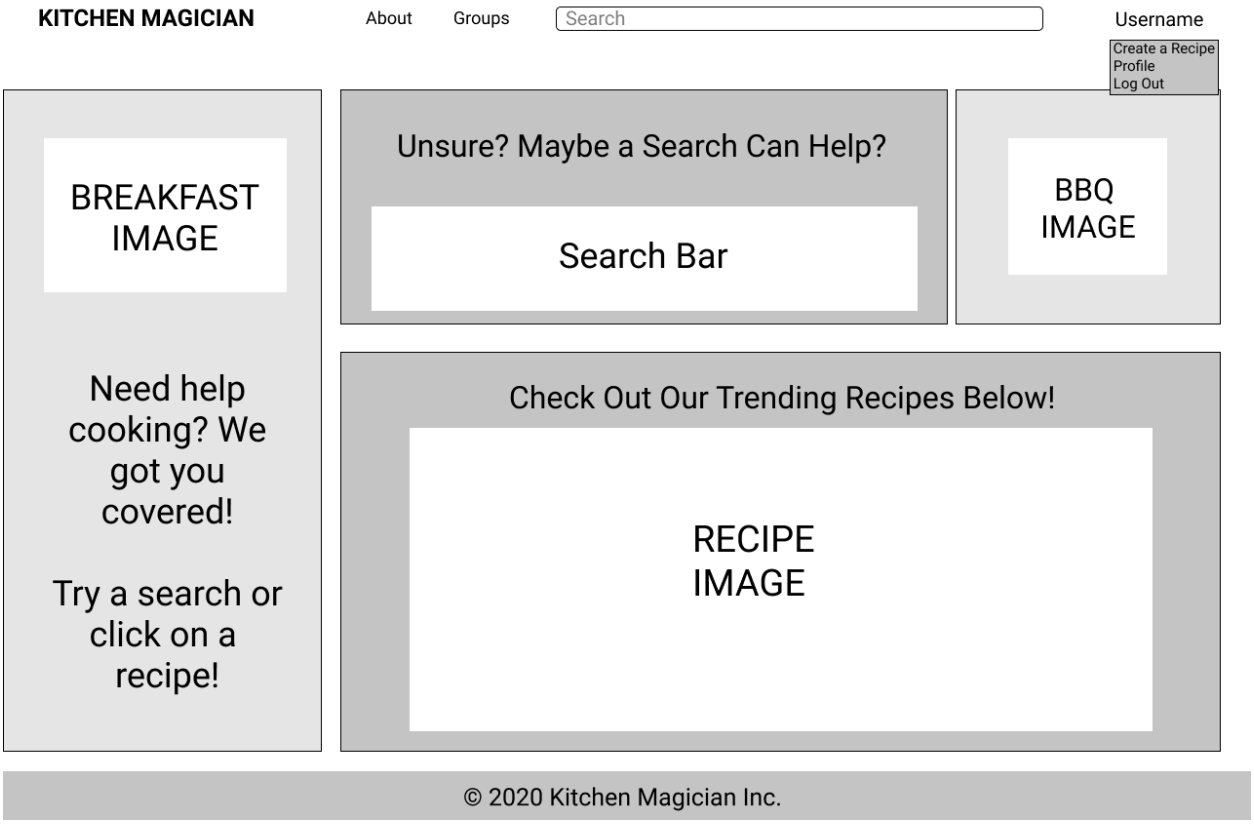
Andrew is talking to his friend Alice. They are discussing the website Kitchen Magician, a website Andrew frequently uses. Alice asks Andrew to show her how he creates recipes.

Login Page:



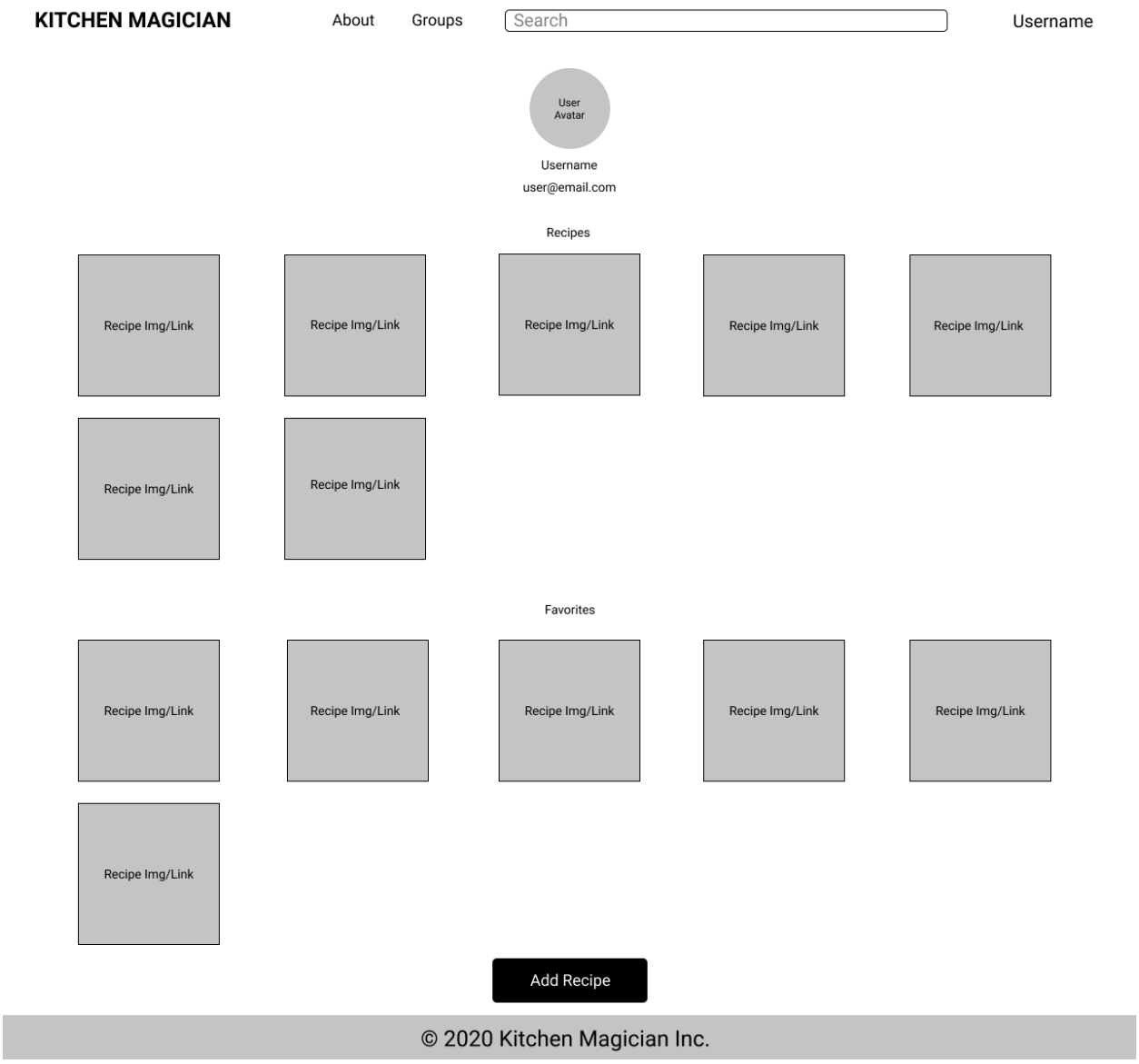
Andrew inputs his username and password and clicks the “Log In” button to login to his account.

Home Page Logged In:



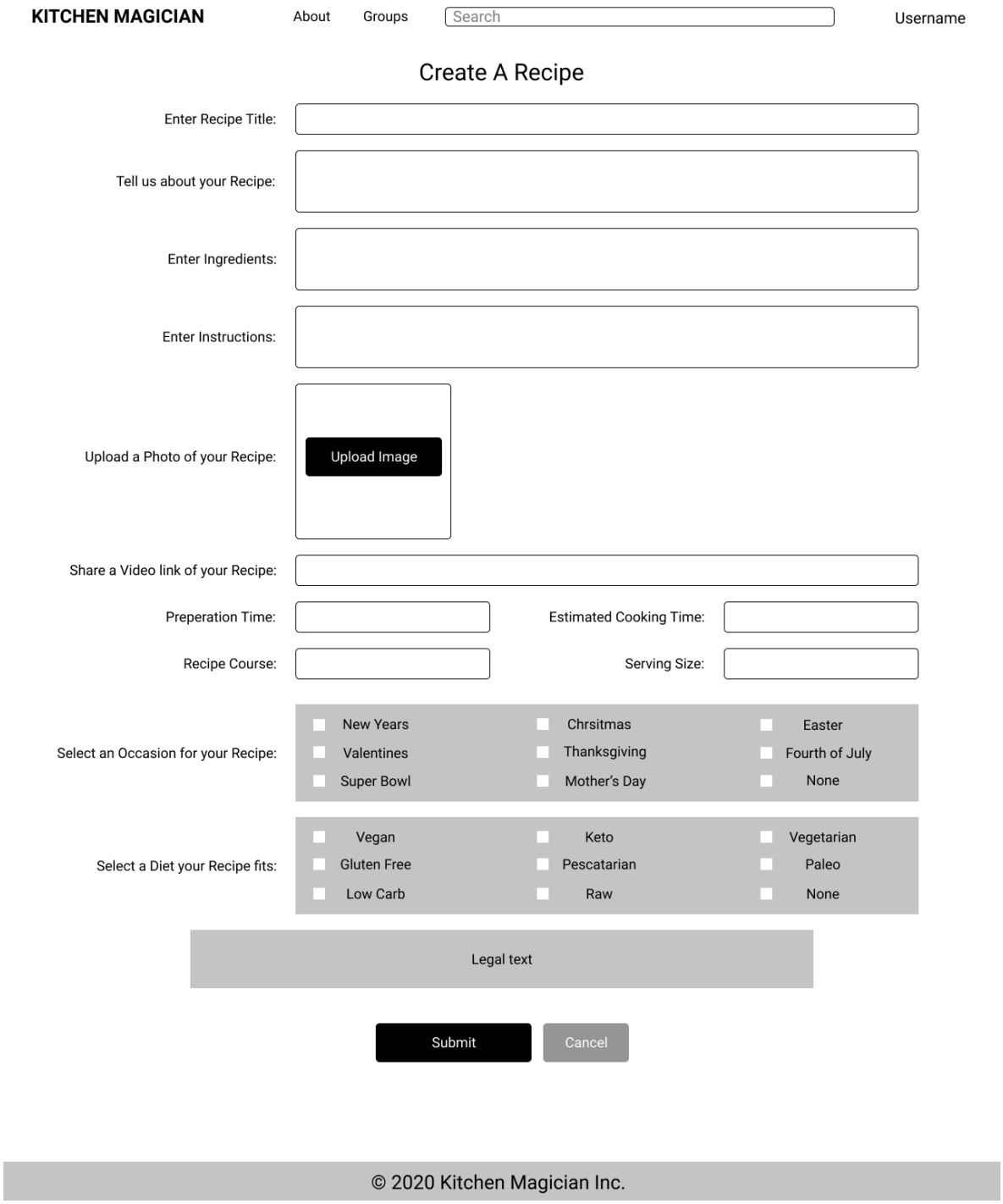
Andrew is now on the homepage. He clicks on the top right where his username is and a drop down menu appears. He clicks on the Profile button.

Profile Page:



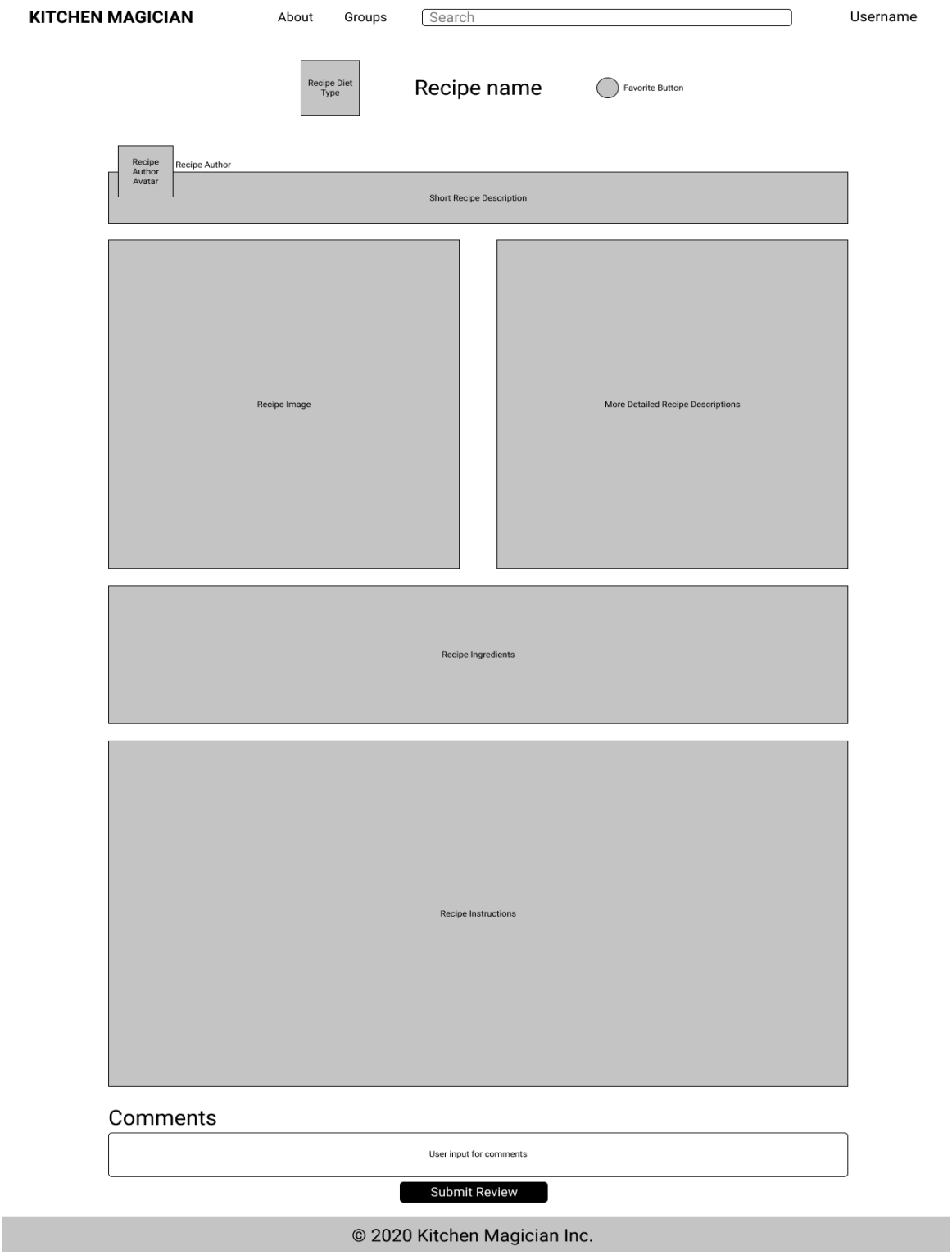
Andrew is now on his profile and he clicks the “Add Recipe” button at the bottom.

Create Recipe Page:



Andrew is now on the Create Recipe page. On here he will enter all the information that is needed to show how to exactly make a specific dish. Once he is done entering all fields. He will click on the “Submit” button.

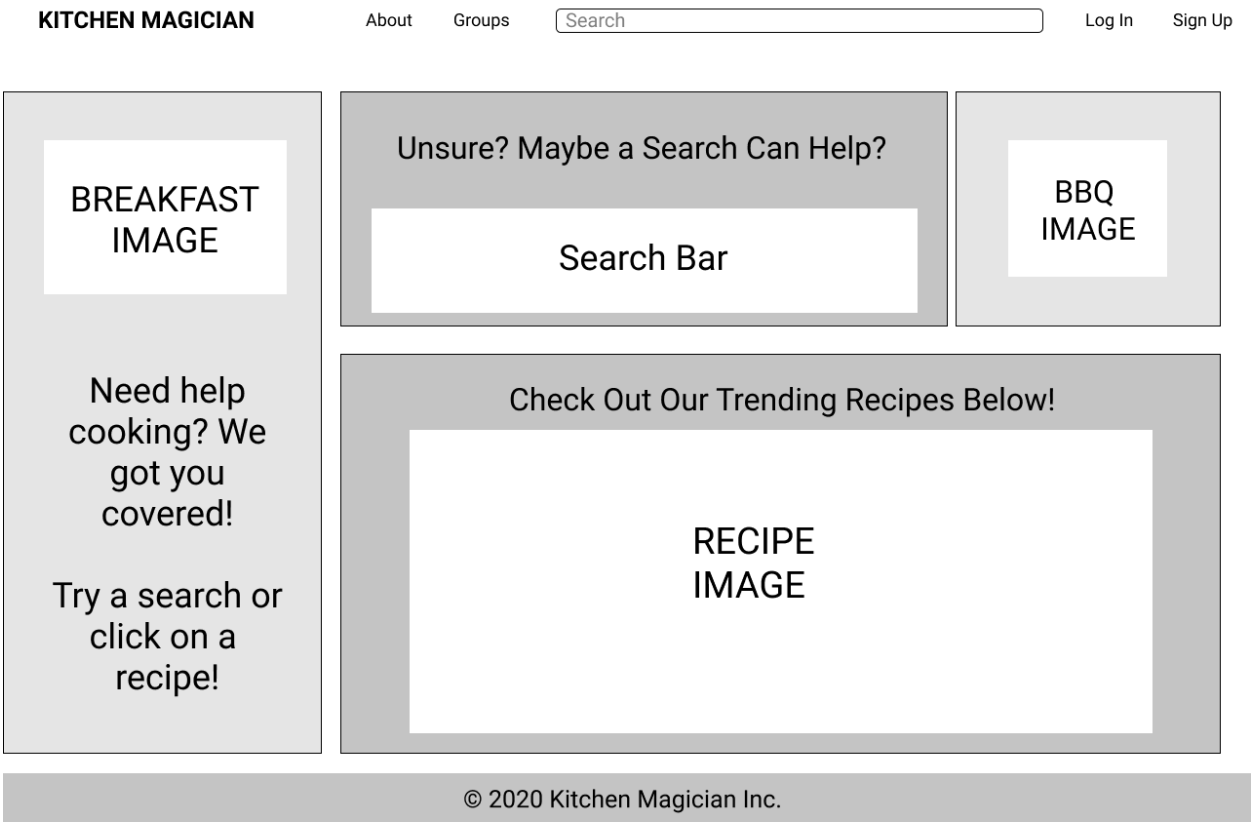
Recipe Page:



Once Andrew has submitted his Recipe, he is presented with his Recipe Page. Here his recipe has an image, description, ingredients and instructions.

Alice Storyboard:

Home Page:

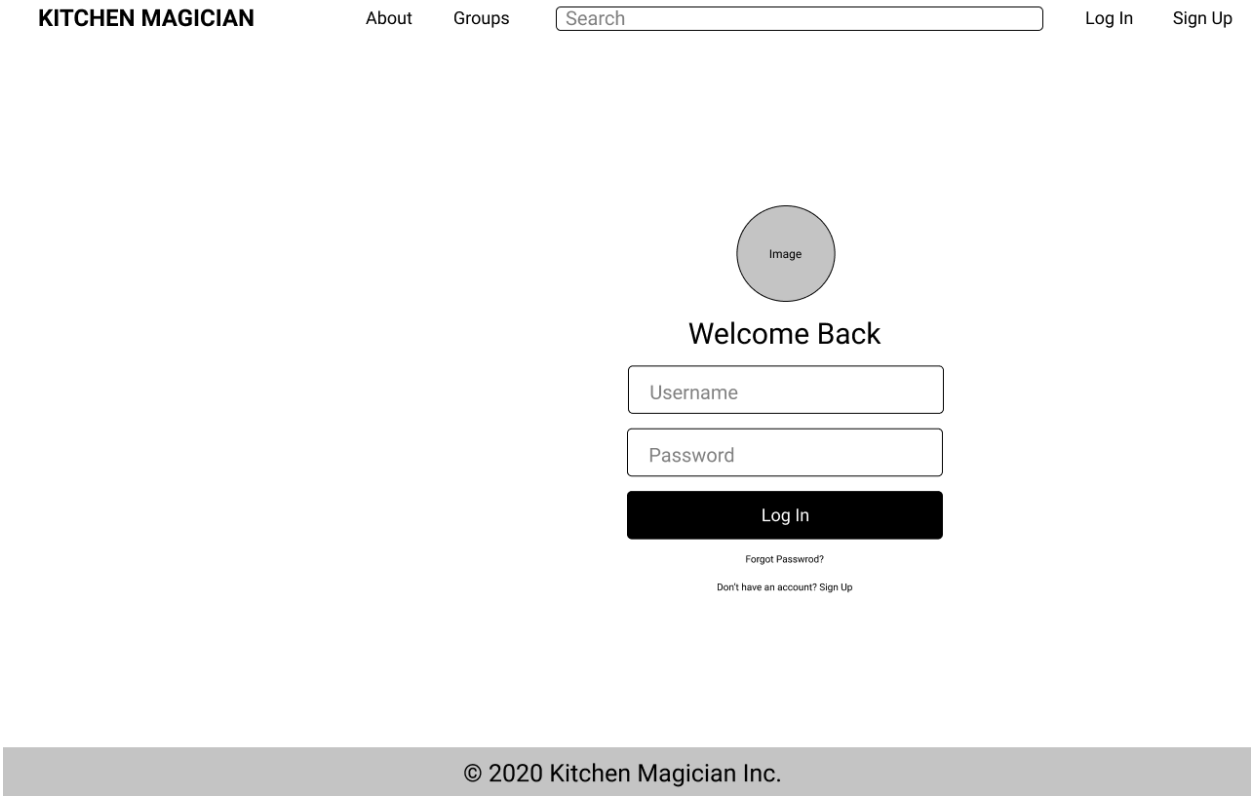


Alice wants to share the ideas she had for recipes.
However, while anyone (General User) can conduct searchers, only registered users have permission to create a recipe.
Therefore, the first step for Alice is to register for an account.
Consequently, Alice navigates to Sign Up on the navigation bar.

Sign Up Page:
m

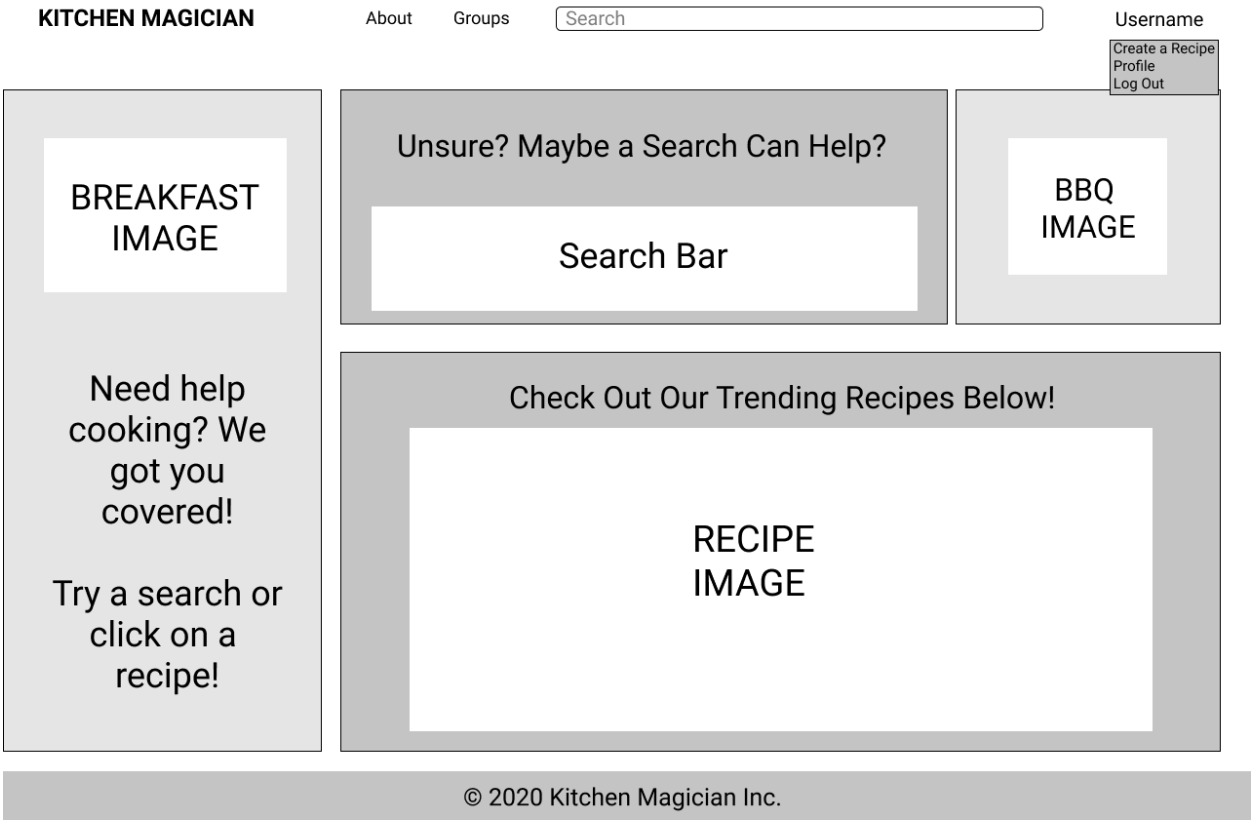
Alice is redirected to the Sign Up page.
On this page, Alice fills the required information, namely
Username, E-mail, and Password.
Once the information that Alice submitted passed basic checks, i.e.
password rules, that passwords match, etc., she clicks on Sign Up
at the bottom of the page to continue.

Login Page:



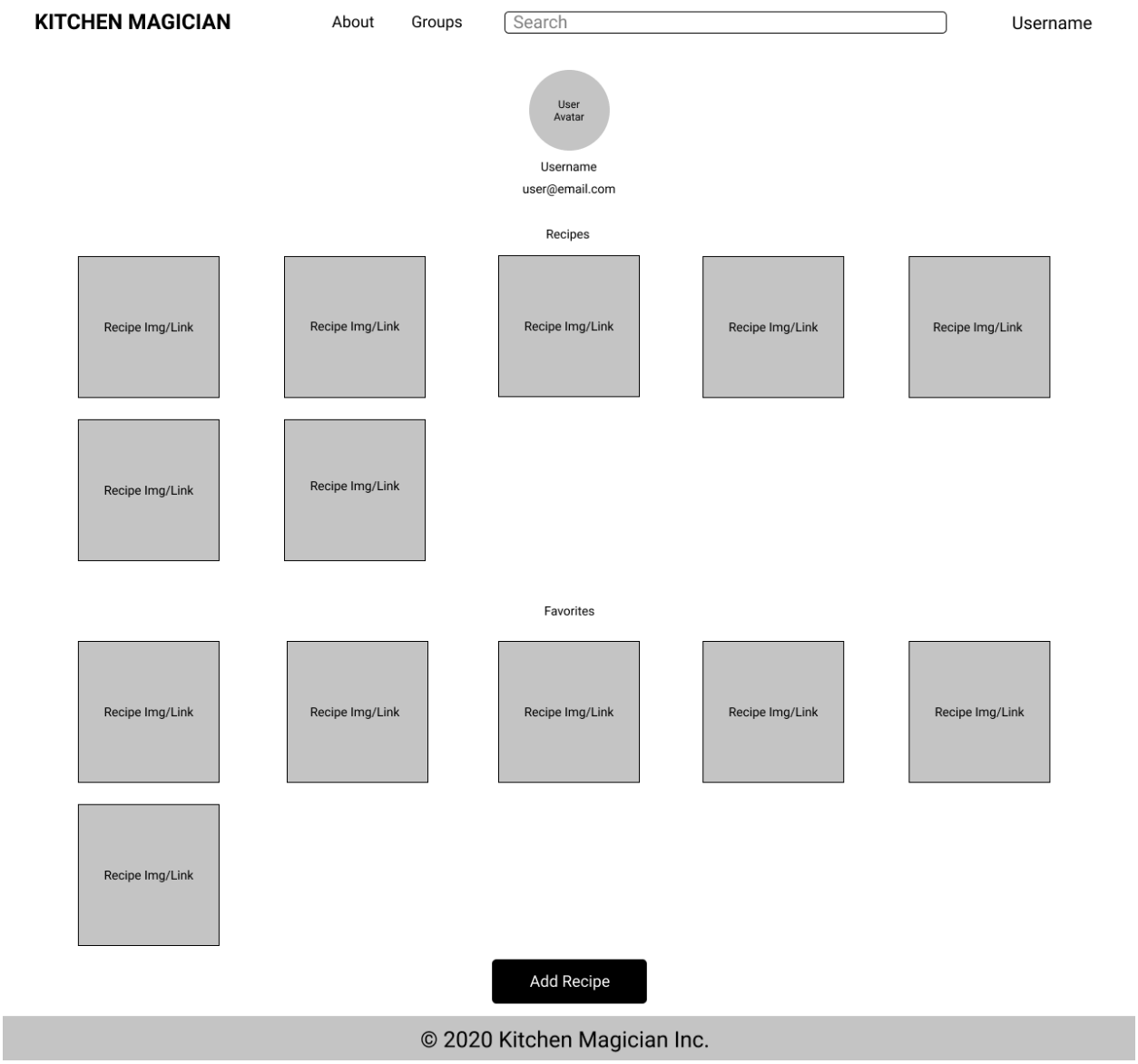
After Alice successfully registered for an account, she is redirected to the login page: the most logical step for the user who has just registered for an account.

Home Page Logged In:



Since the navigation bar reflects changes in the status of the user, i.e. General User to Registered User (if a user registers or a registered user logs in), or Registered User to General User (when a registered user signs out),
Alice clicks on her username, then a submenu activates, and Alice chooses Profile.

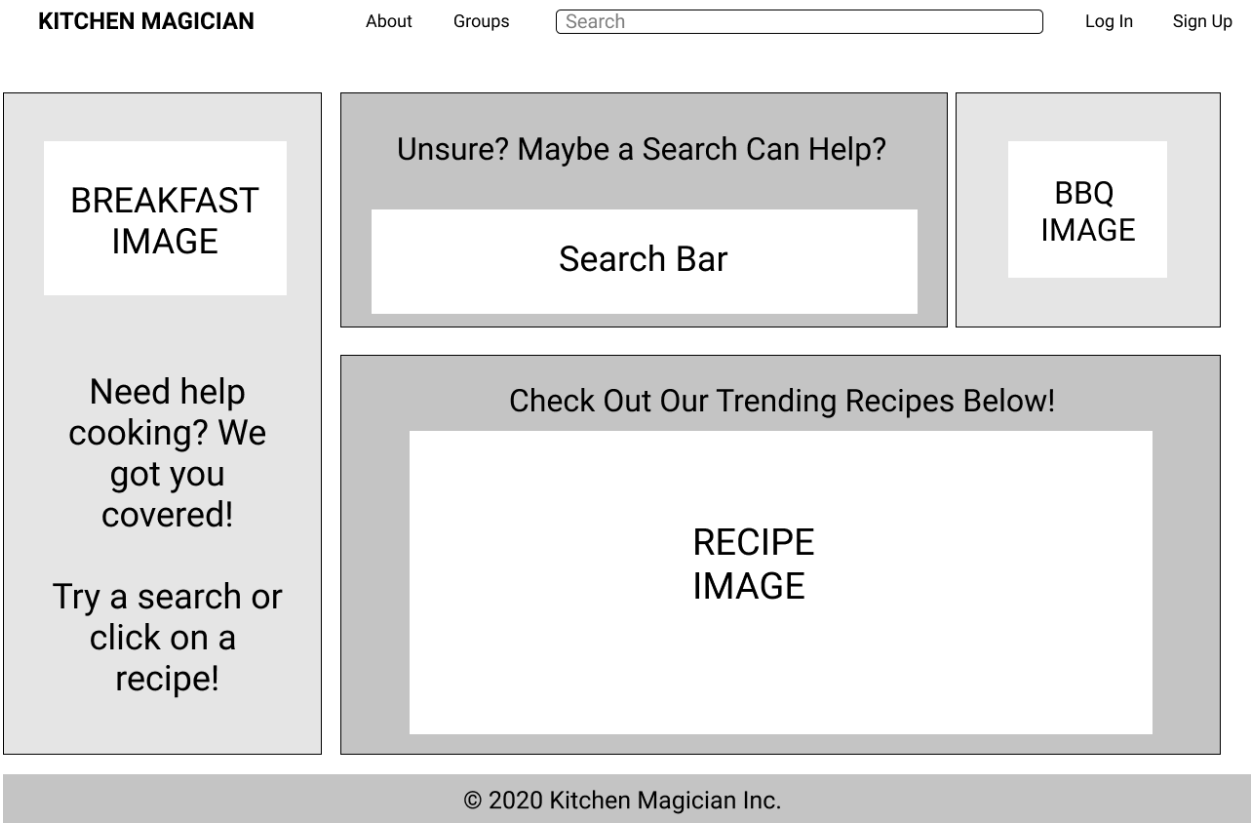
Profile Page:



To create the actual recipe, Alice clicks on the Add Recipe button at the bottom of her profile.

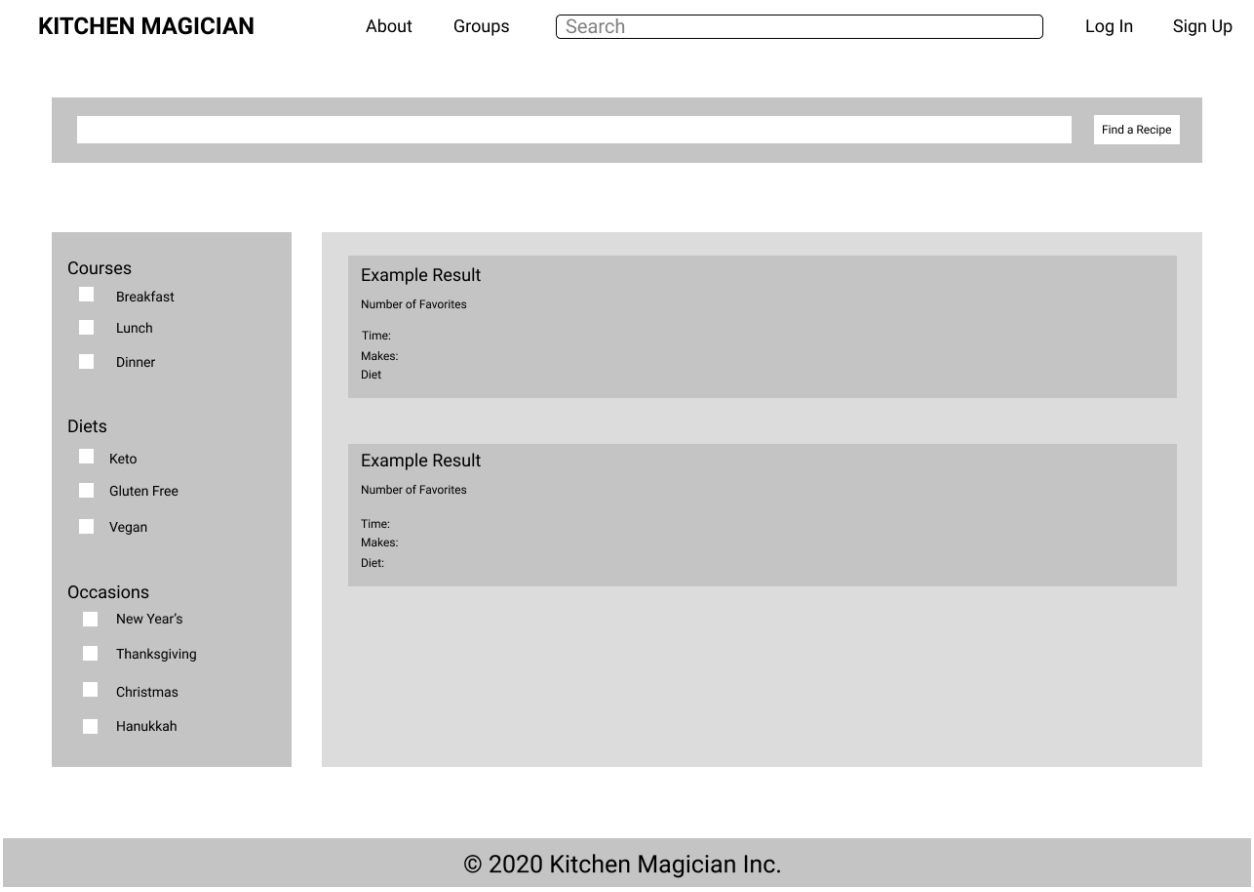
Kite Storyboard:

Home Page:



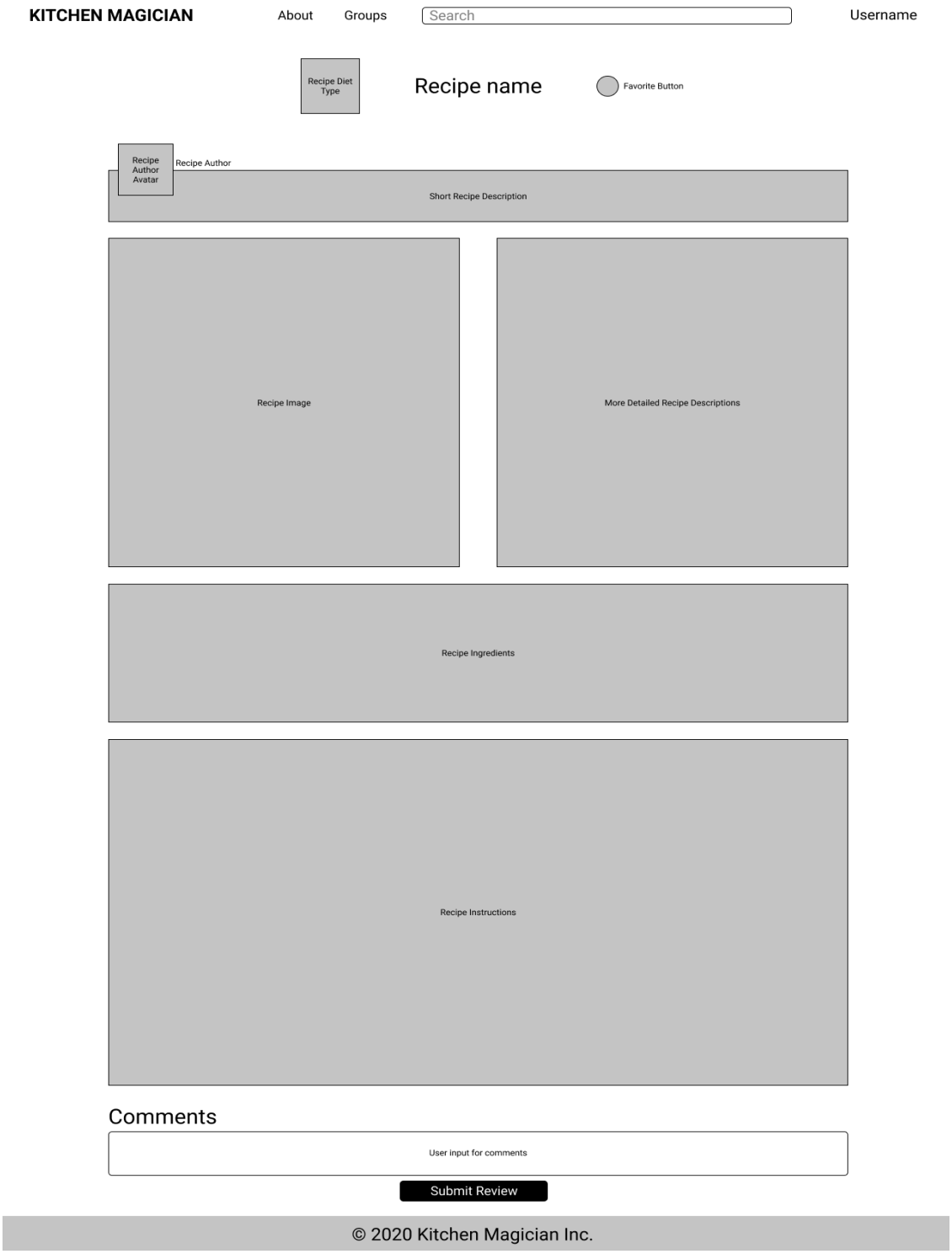
Kite is discussing with Alice about different types of dishes. This reminds Kite that he needs to make a gluten free dinner for his parents. Kite begins on the home page and clicks on the "Search" bar that is located on the Navigation bar at the top of the website. Kite then enters a "Gluten" as his keyword.

Search/Results Page:



Kite is then redirected to the Search Results Page. He is given results of what Gluten Recipes are available on Kitchen Magician. He will click on one result depending on which result he likes the best.

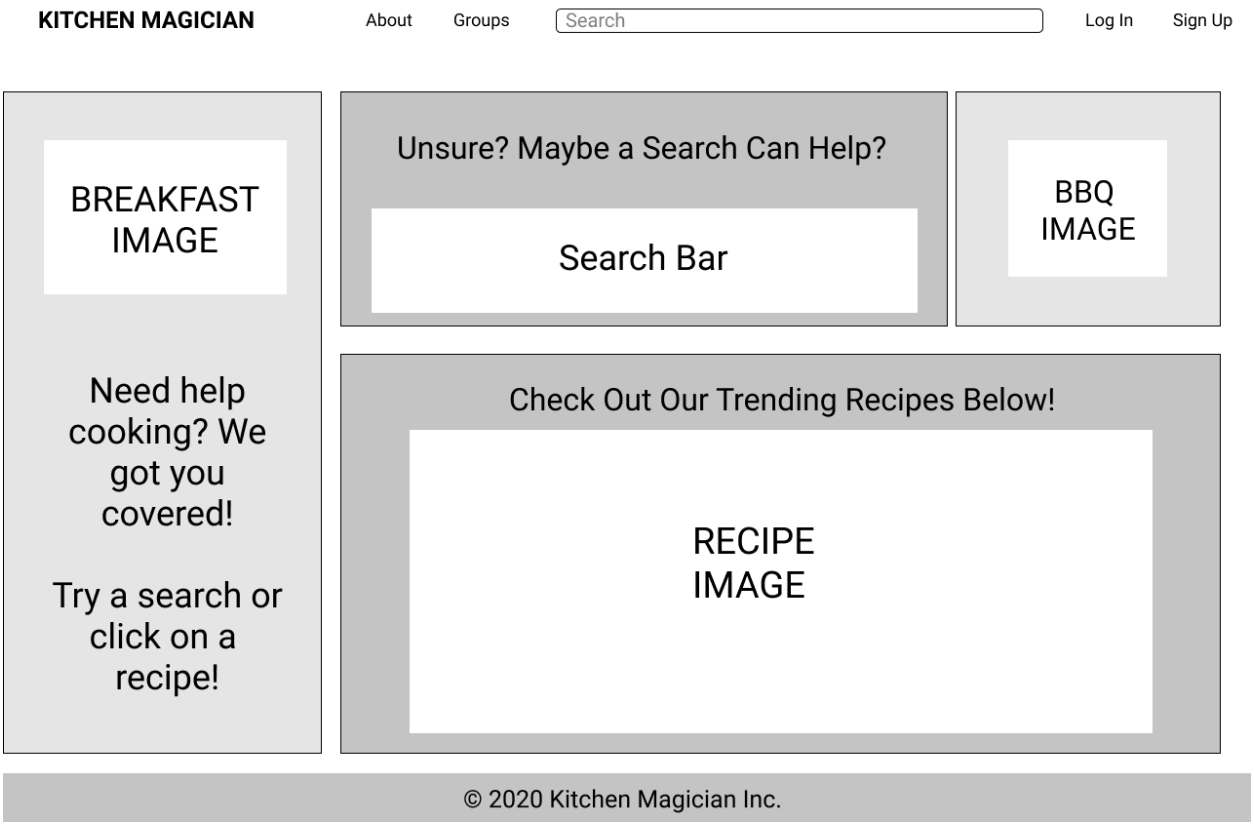
Recipe Page:



Once Kite has decided his choice of recipe. He is directed to the Recipe Page. The Recipe page allows Kite to look at the Recipe Image, description, ingredients and the instruction.

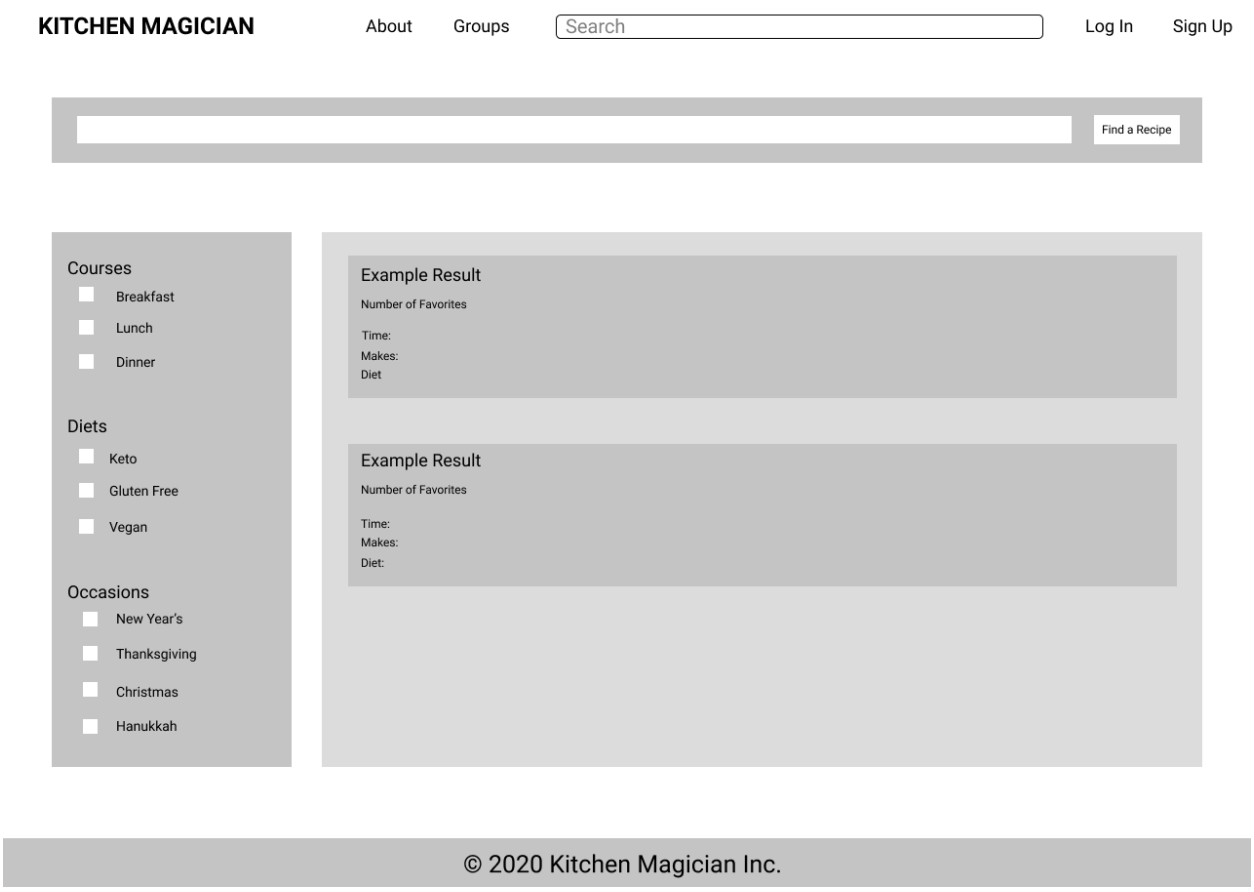
Emma Storyboard:

Home Page:



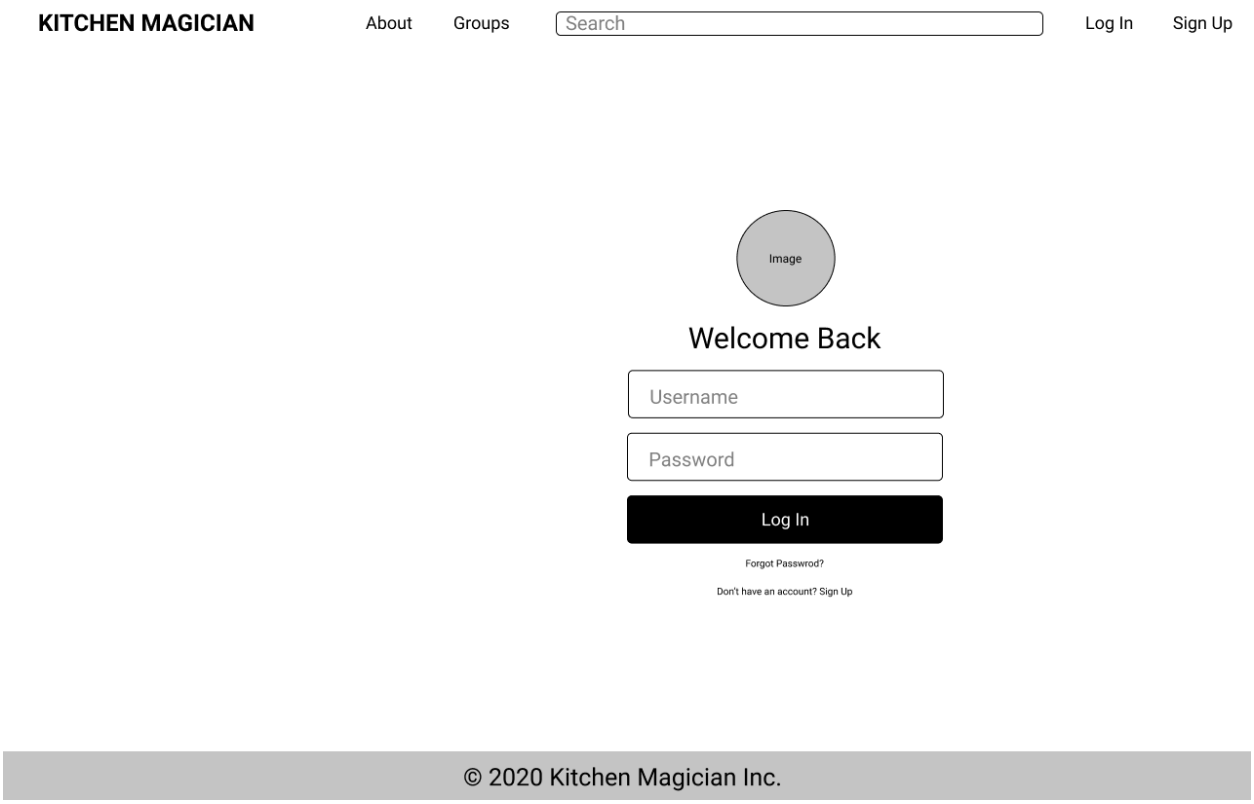
Emma wants to find a turkey recipe to prepare for a dinner party. She goes to the Kitchen Magician website and types “turkey” into the “Search” bar and presses Enter. She is redirected to the Search/Results page.

Search/Results Page:



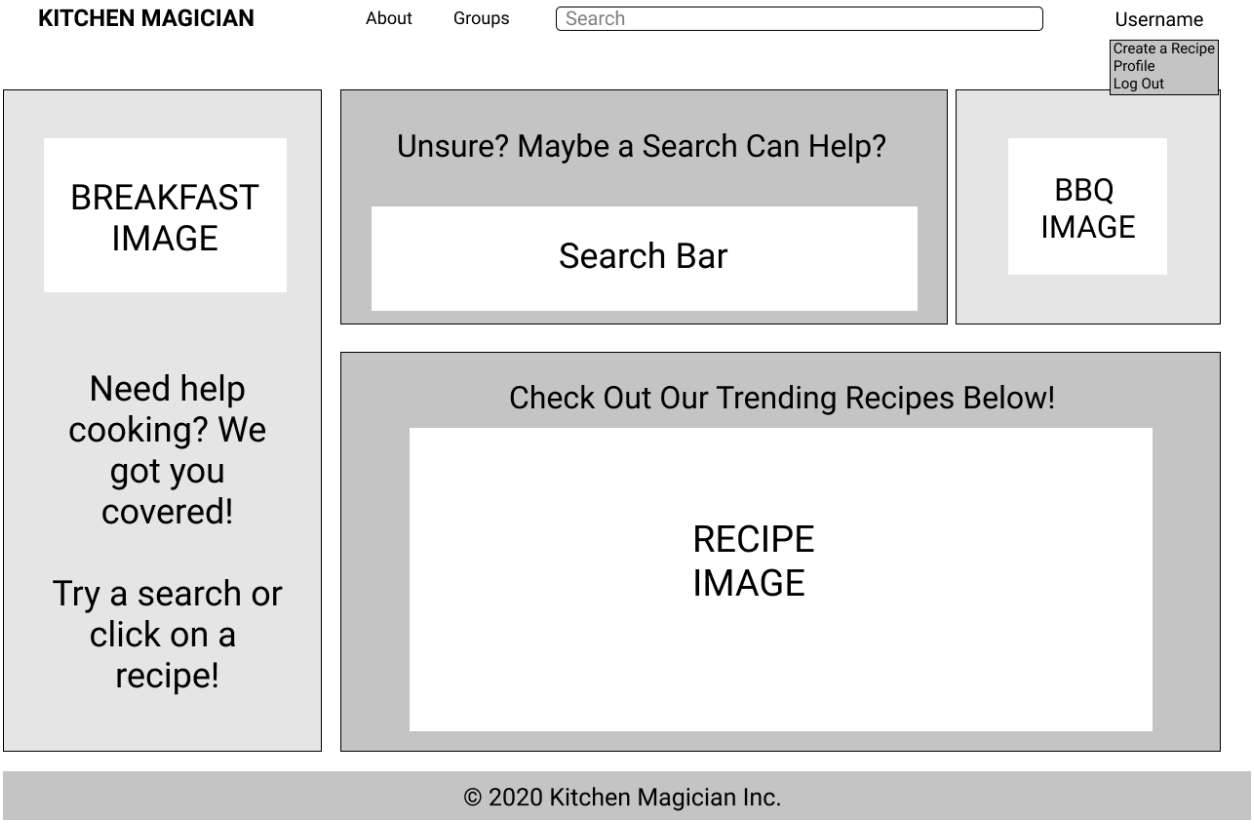
With keyword search, she finds recipes related to “turkey”. After she is done browsing through the results, she isn’t satisfied. All of a sudden, she realizes that she favorited a great turkey recipe in the past so she decides to log in by pressing the “Log In” button on the top right of the website. She is redirected to the Login page.

Login Page:



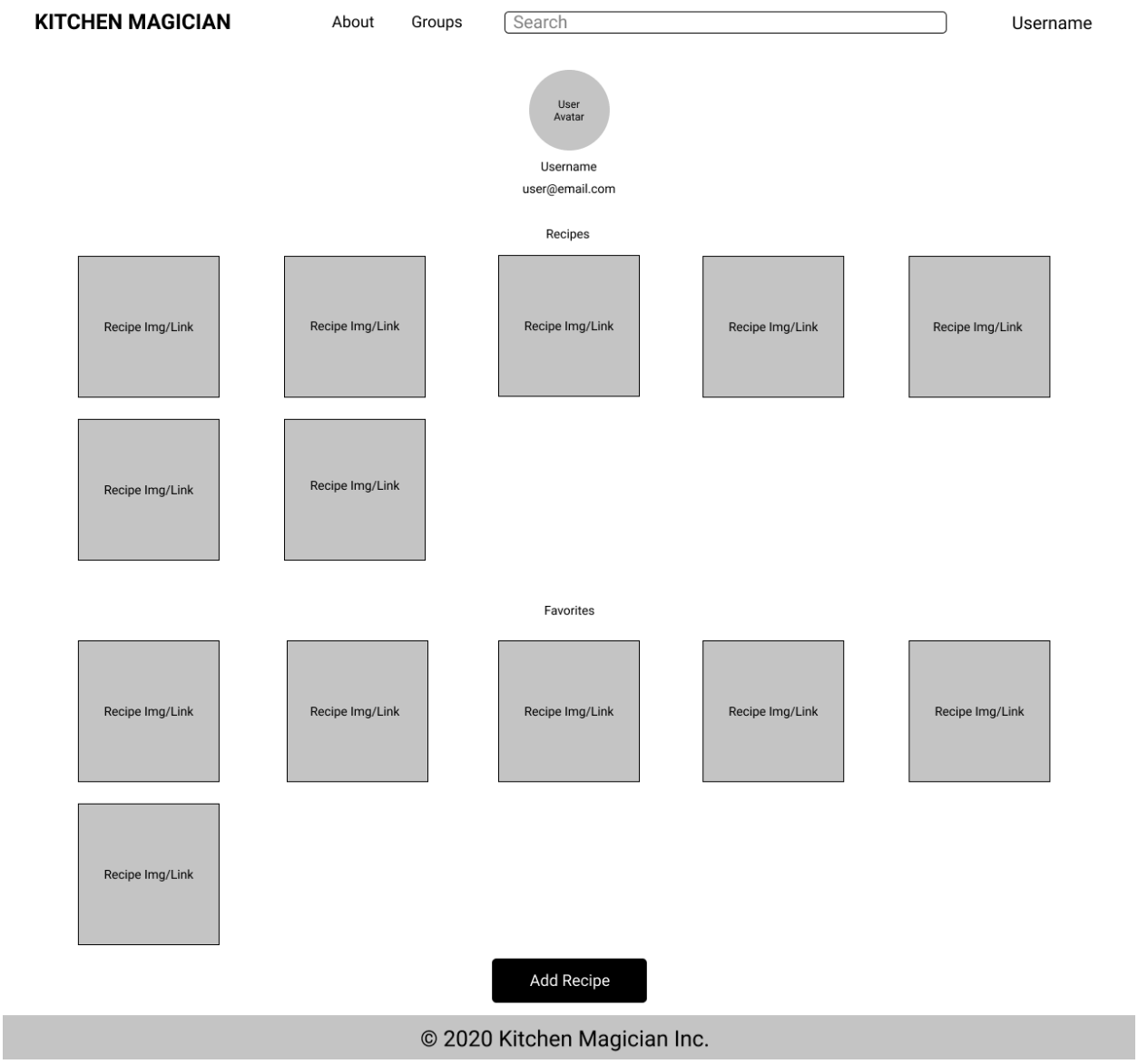
Emma enters her username and password and clicks the “Log In” button. After she clicks the button, she is redirected to the Home page.

Home Page Logged In:



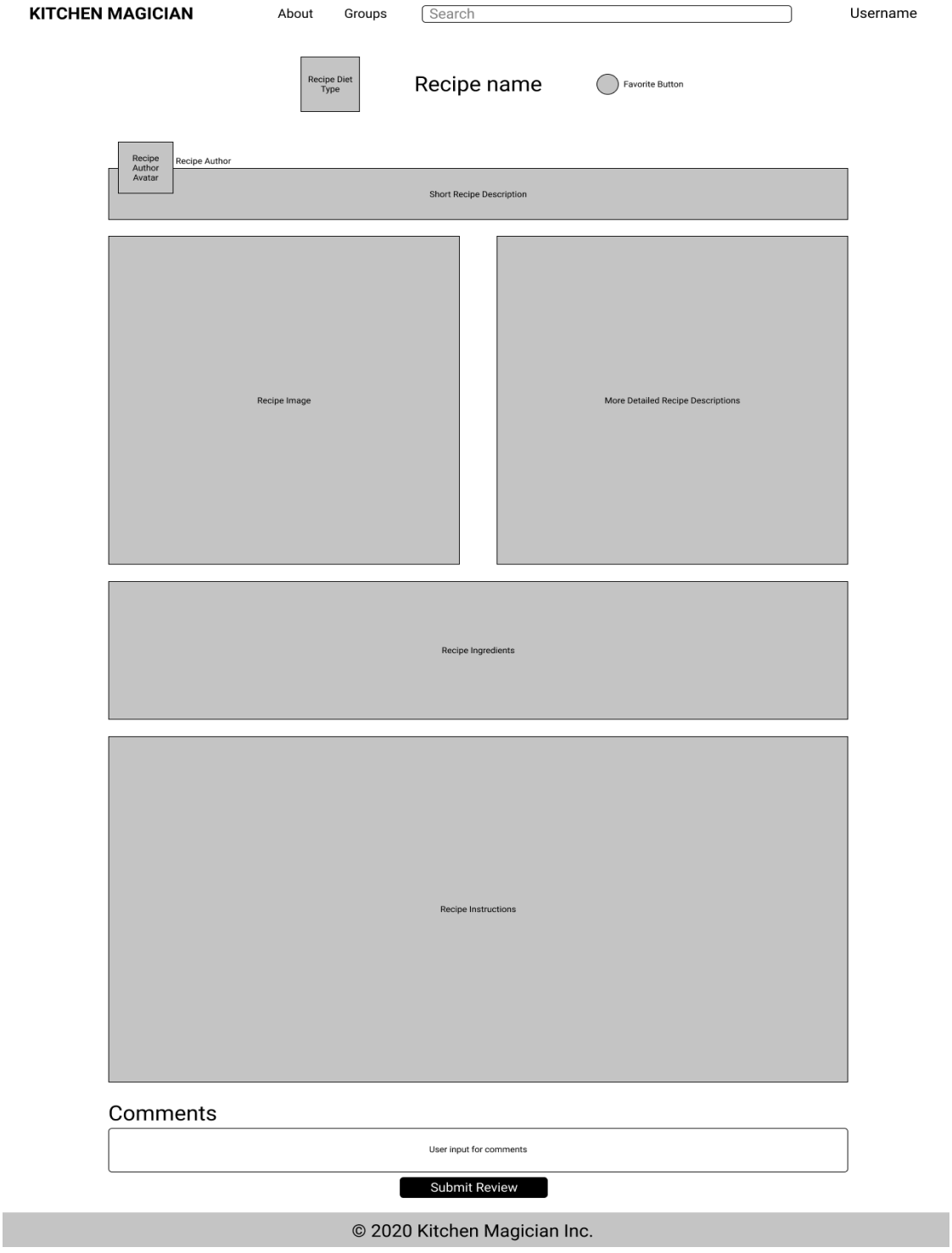
Emma wants to go to her Profile page so she can see all the recipes she favorites in the past. She clicks on her username on the top right of the website and a drop down appears. Emma clicks on the option “Profile” and is redirected to the Profile page.

Profile Page:



Emma sees her previously favorited recipes on her profile and is able to locate the turkey recipe she was looking for. She clicks on the turkey recipe and is redirected to it's recipe page.

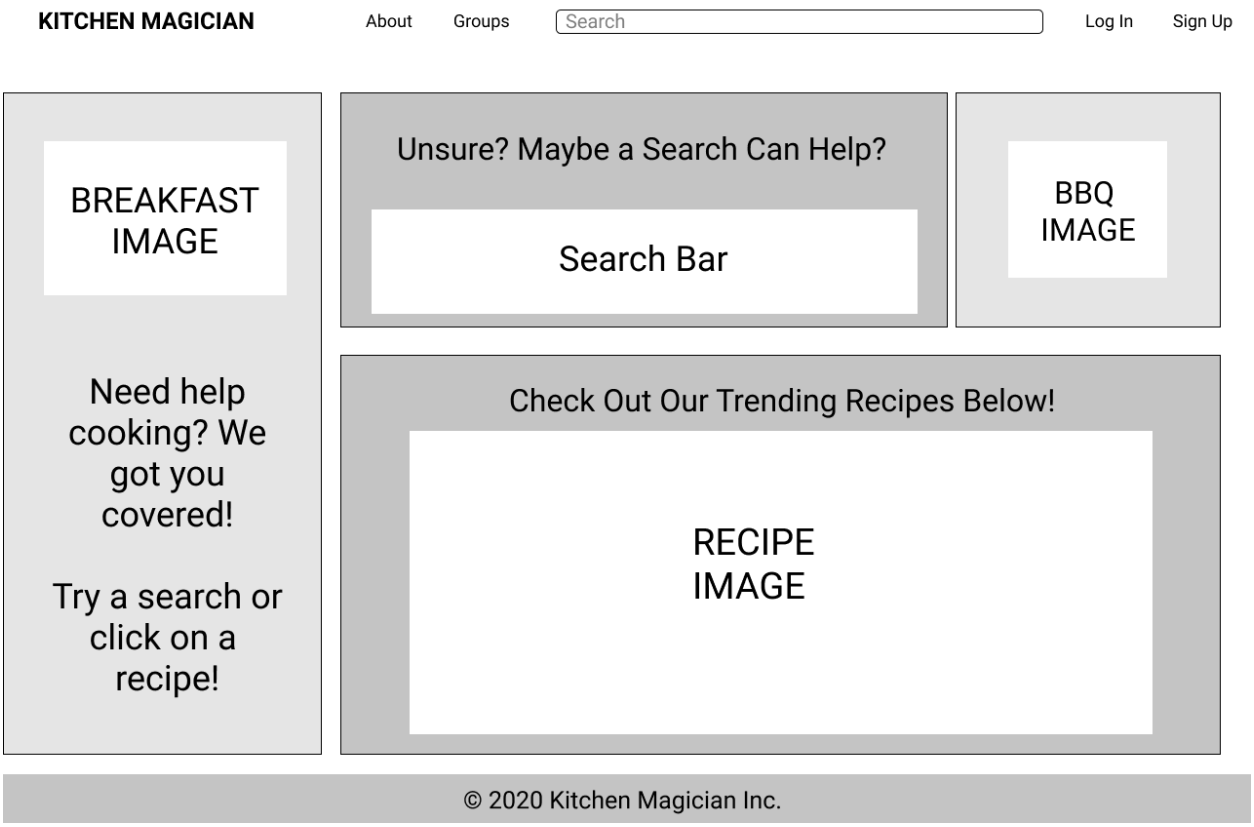
Recipe Page:



Emma is able to view all the recipe information and instructions on this page.

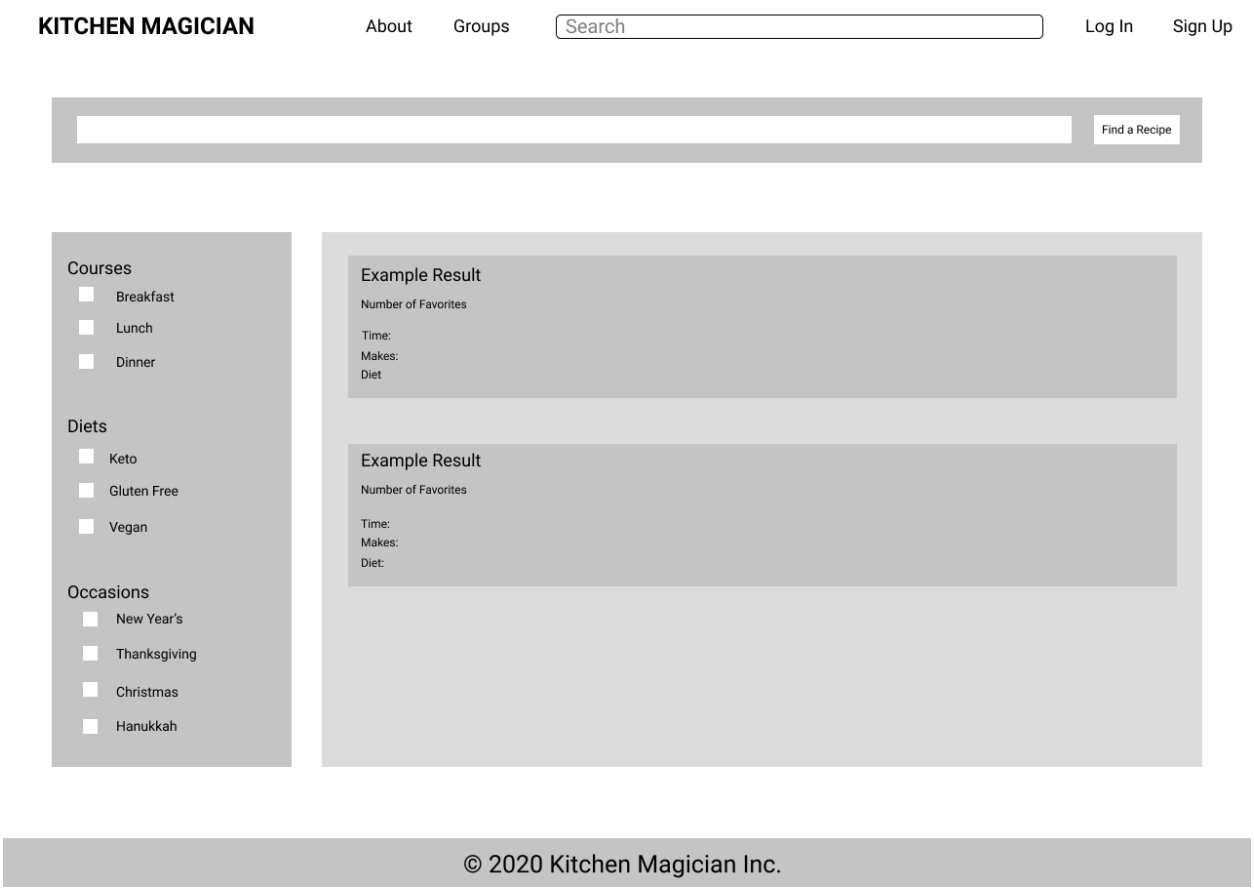
Jim Storyboard:

Home Page:



Jim remembers the conversation with Alice and goes to the Kitchen Magician Website. Jim lands on the website's Home Page. He then presses the search button on the top of the page in the navigation bar.

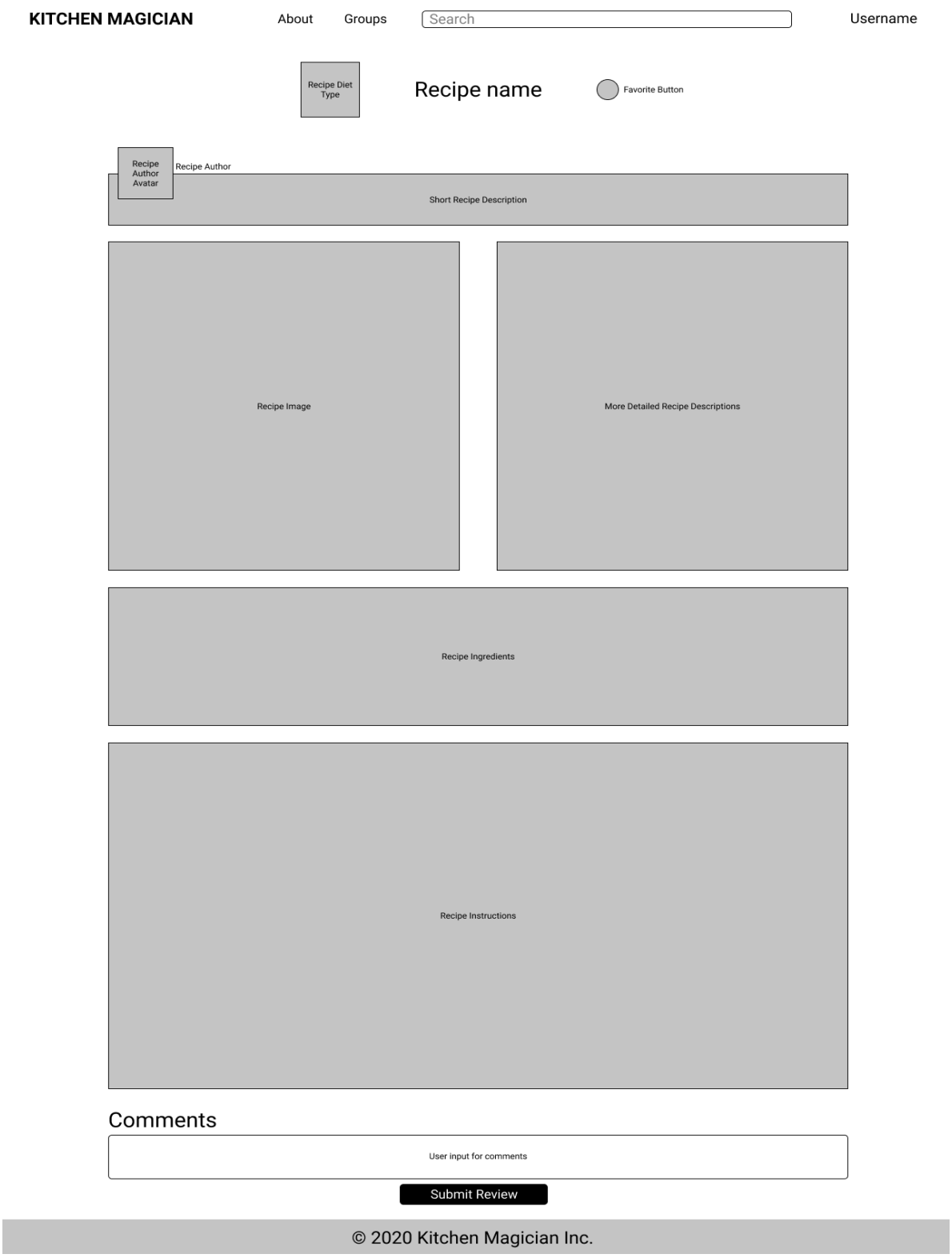
Search/Results page:



Jim lands at the website's search/results page. He types in ingredients into the search bar between the navigation bar and the results. He then presses the find a recipe button to the right of the search bar.

The page then refreshes to show the results of Jim's search. Jim then clicks on the first recipe on the page.

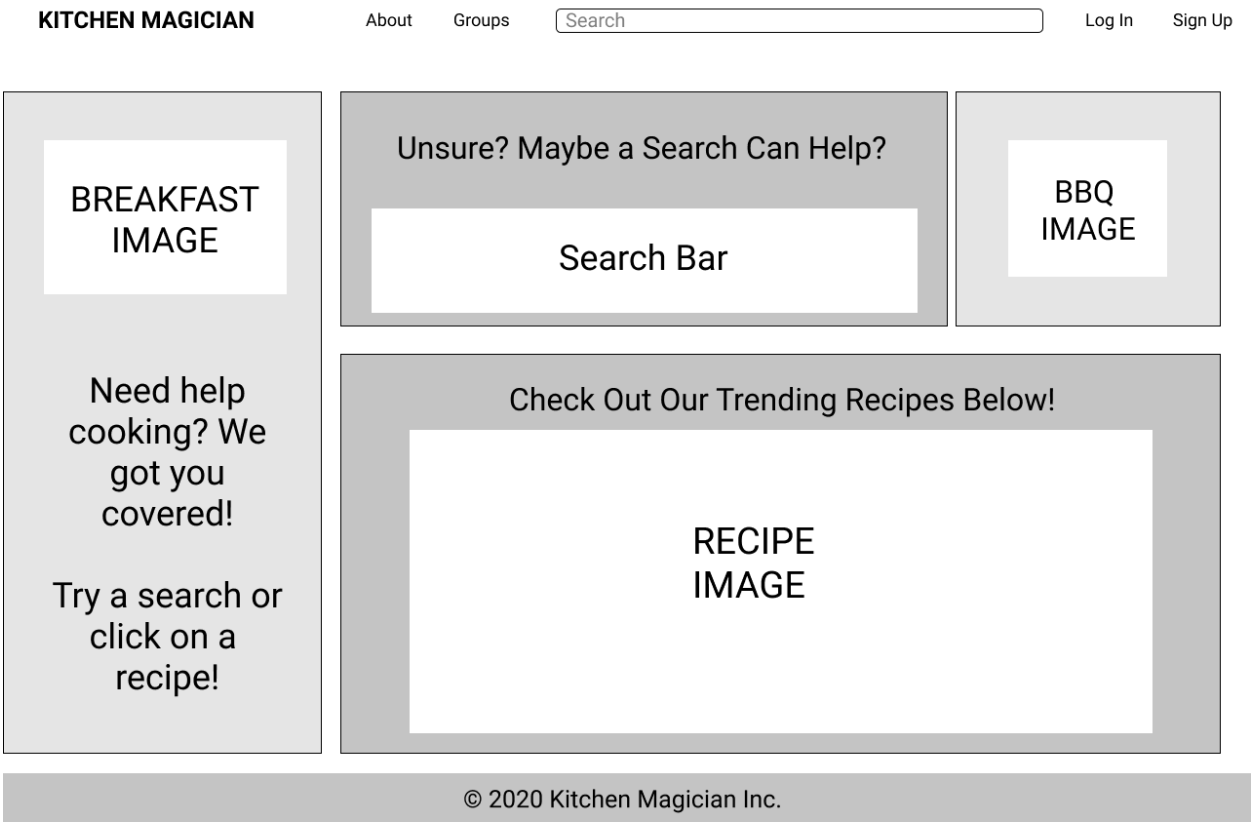
Recipe Page:



Jim lands on the corresponding recipe's page, and he begins to cook the recipe.

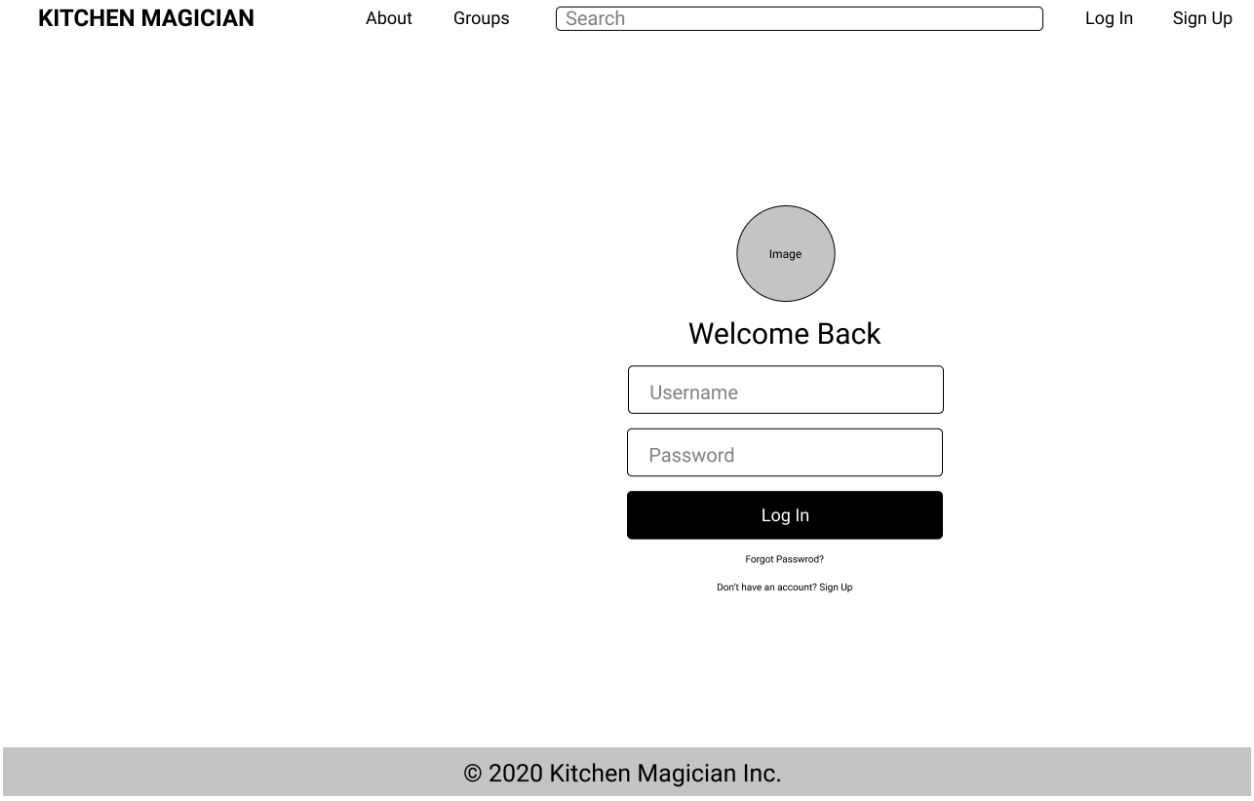
Pamela Storyboard:

Home Page:



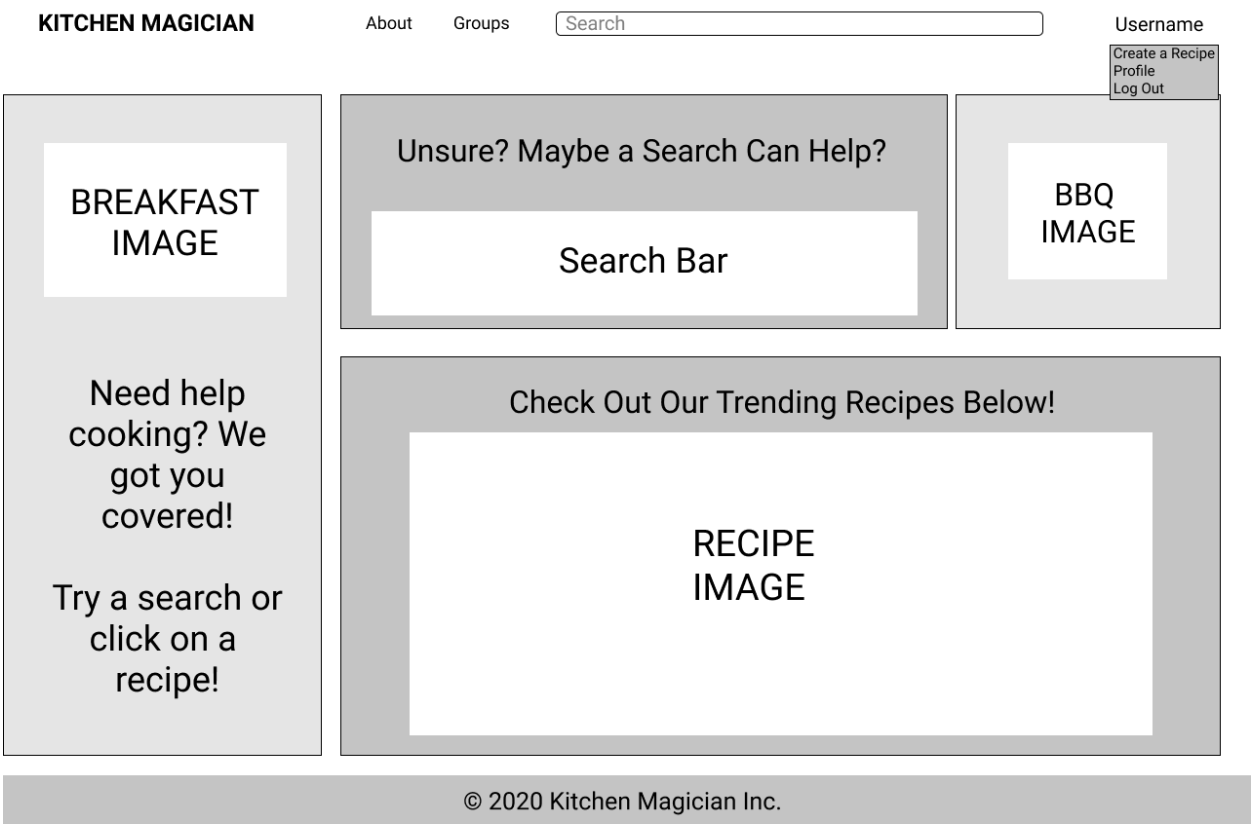
Pamela goes home and goes to the Kitchen Magician website out of curiosity from her conversation with her friends. She clicked on the login button to redirect to the Login Page.

Login Page:



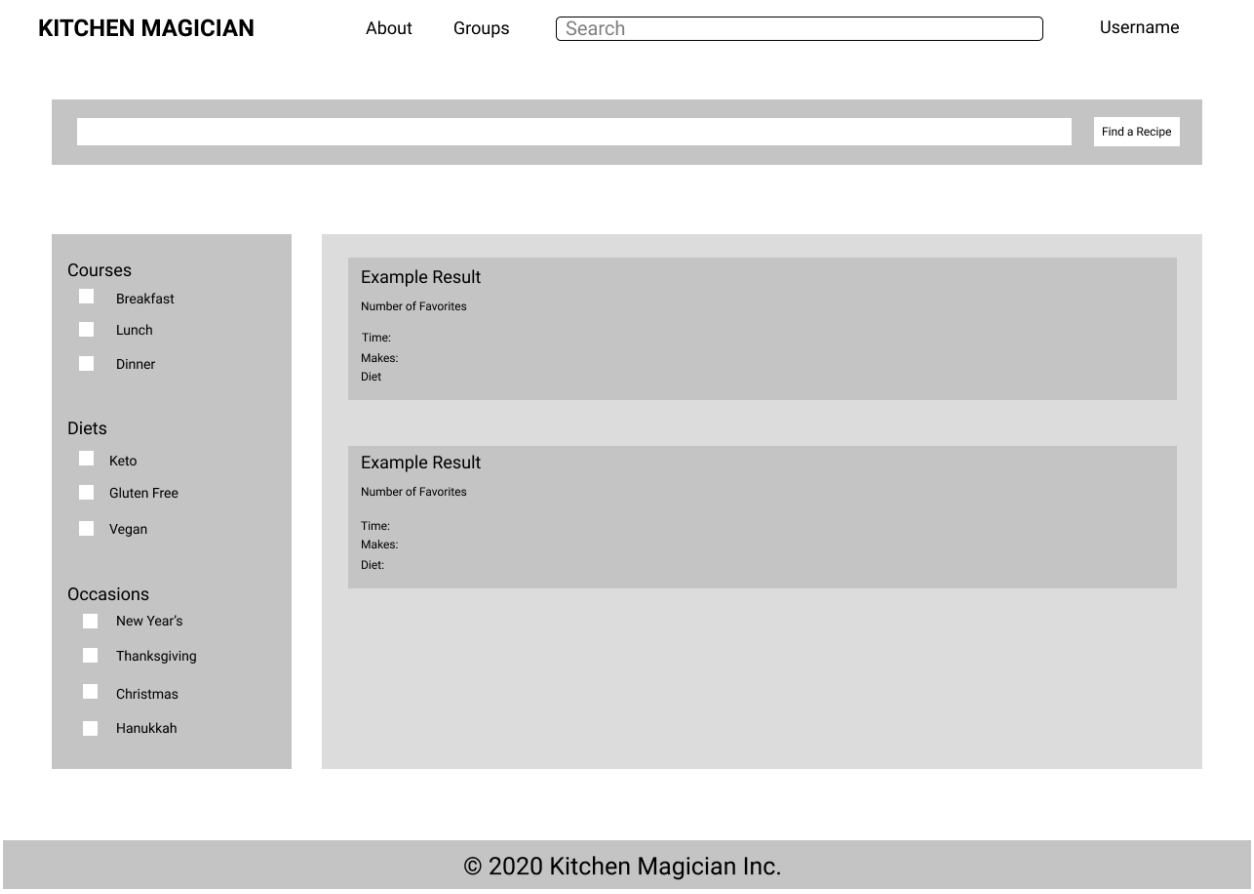
Pamela entered her username and password and clicked on the login button to redirect to the home page.

Home Page Logged In:



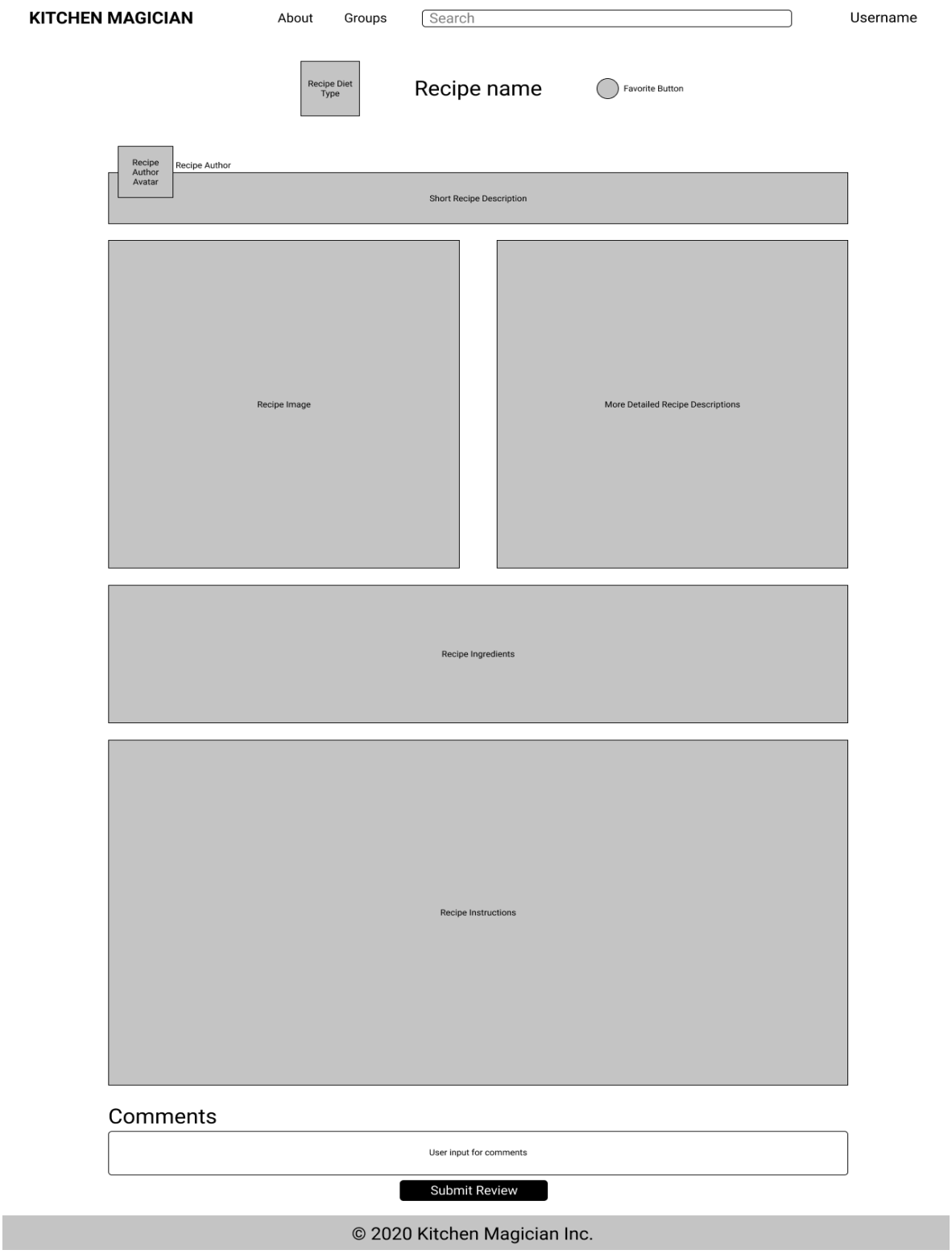
Pamela clicked on the search button to redirect to the search recipe page to search for the recipe she likes.

Search/Results Page:



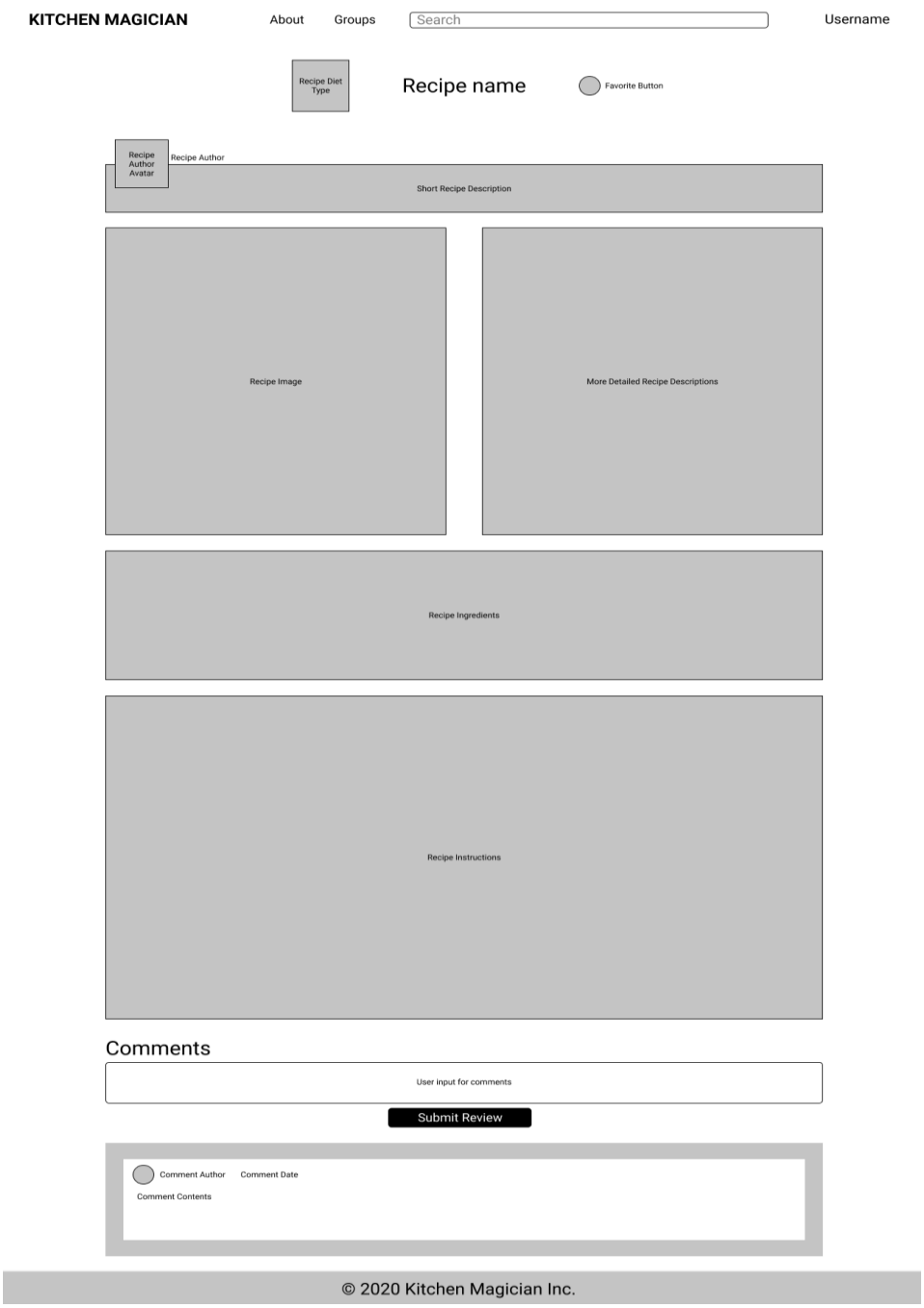
Pamela clicked on a recipe she liked on the search results page and was redirected to the recipe page.

Recipe Page:



Pamela presses the favorite button to the right of the Recipe name and types in a comment at the bottom of the recipe. She presses the submit review to submit her comment.

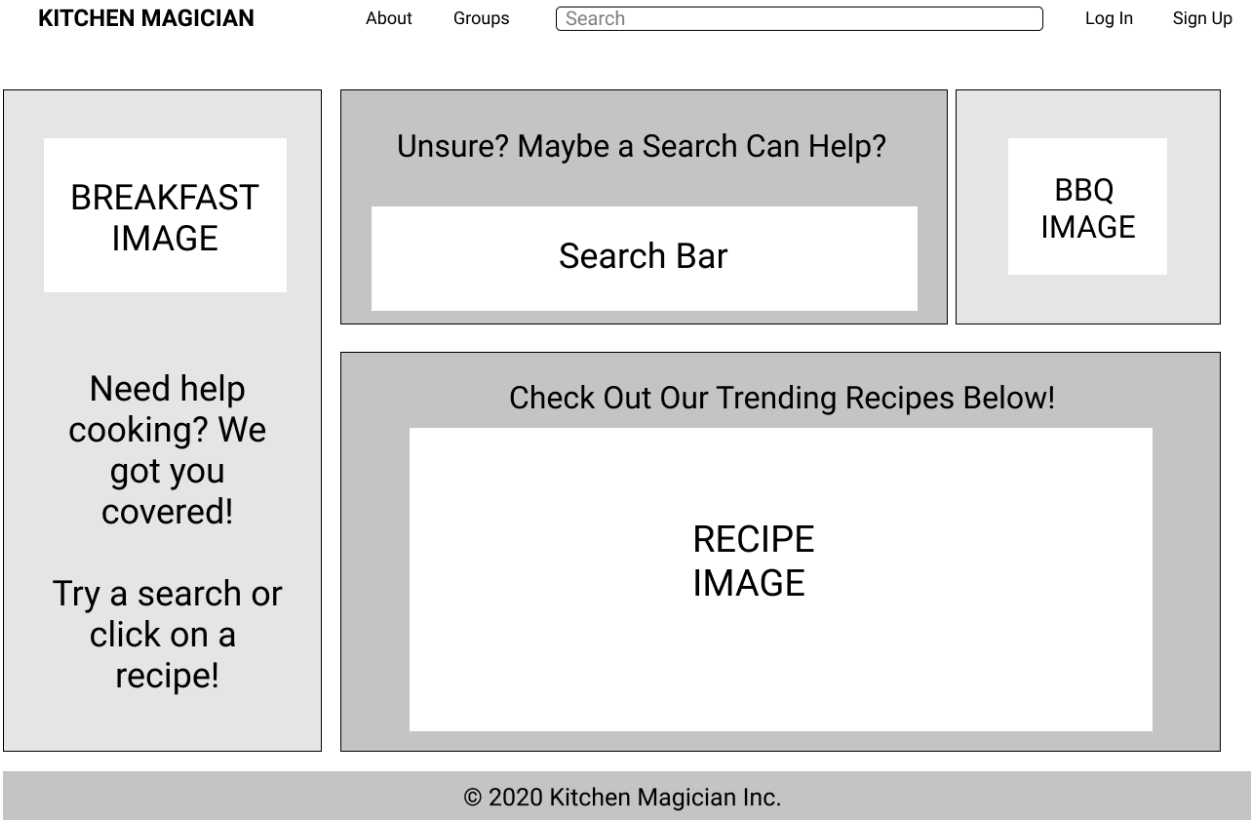
Recipe Page:



The page refreshes to show that Pamela's comment has been submitted.

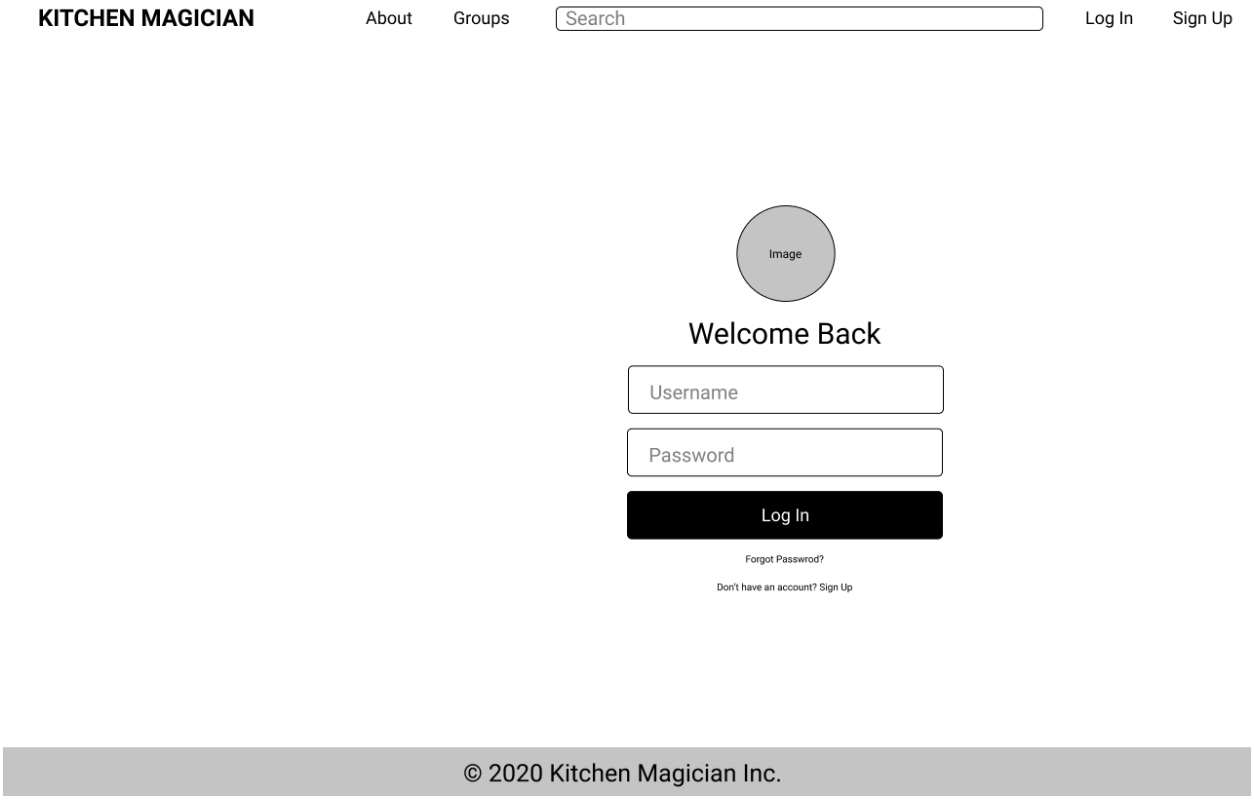
Tom and Sarah Storyboard:

Home Page:



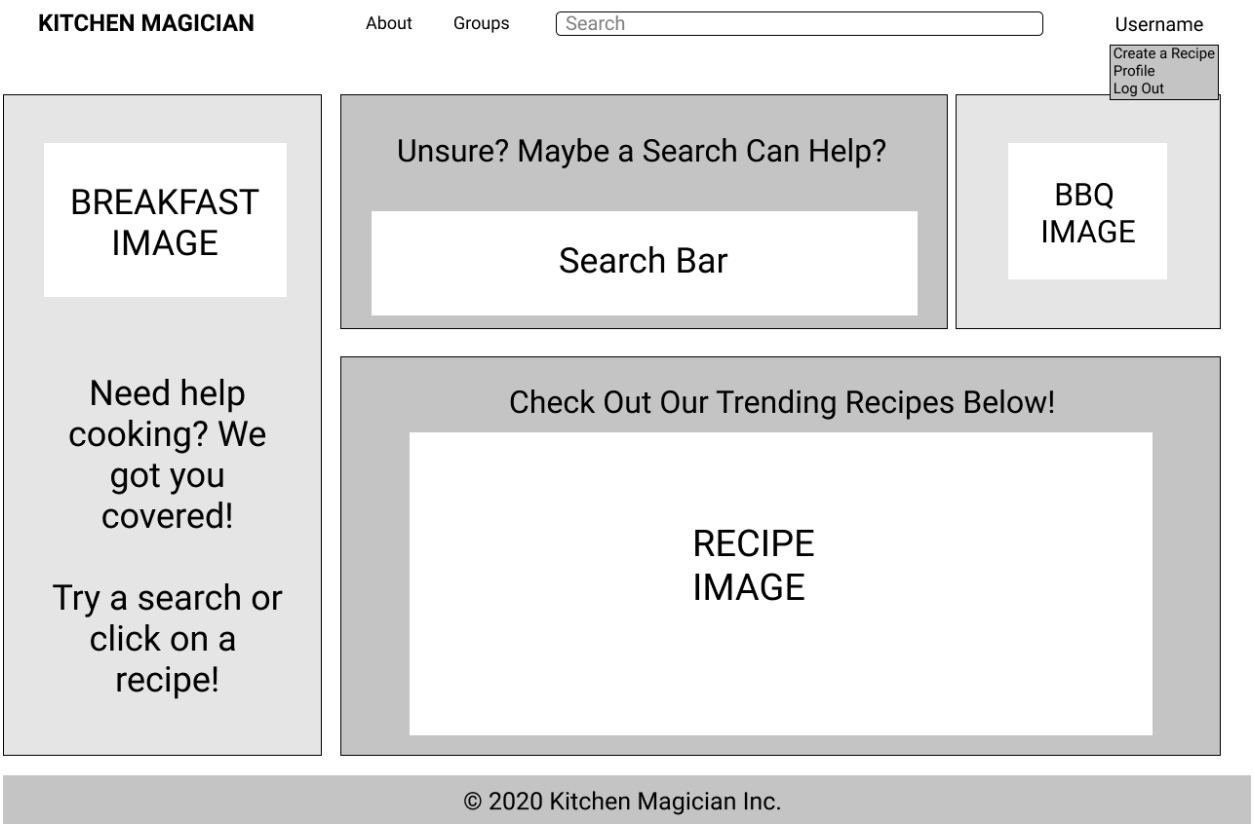
Tom wants to join his wife Sarah and her friend Pamela on the Kitchen Magician website. He and Sarah reach the website and navigate to the login page by pressing the “Log In” button on the top right of the page in the navigation bar.

Login Page:



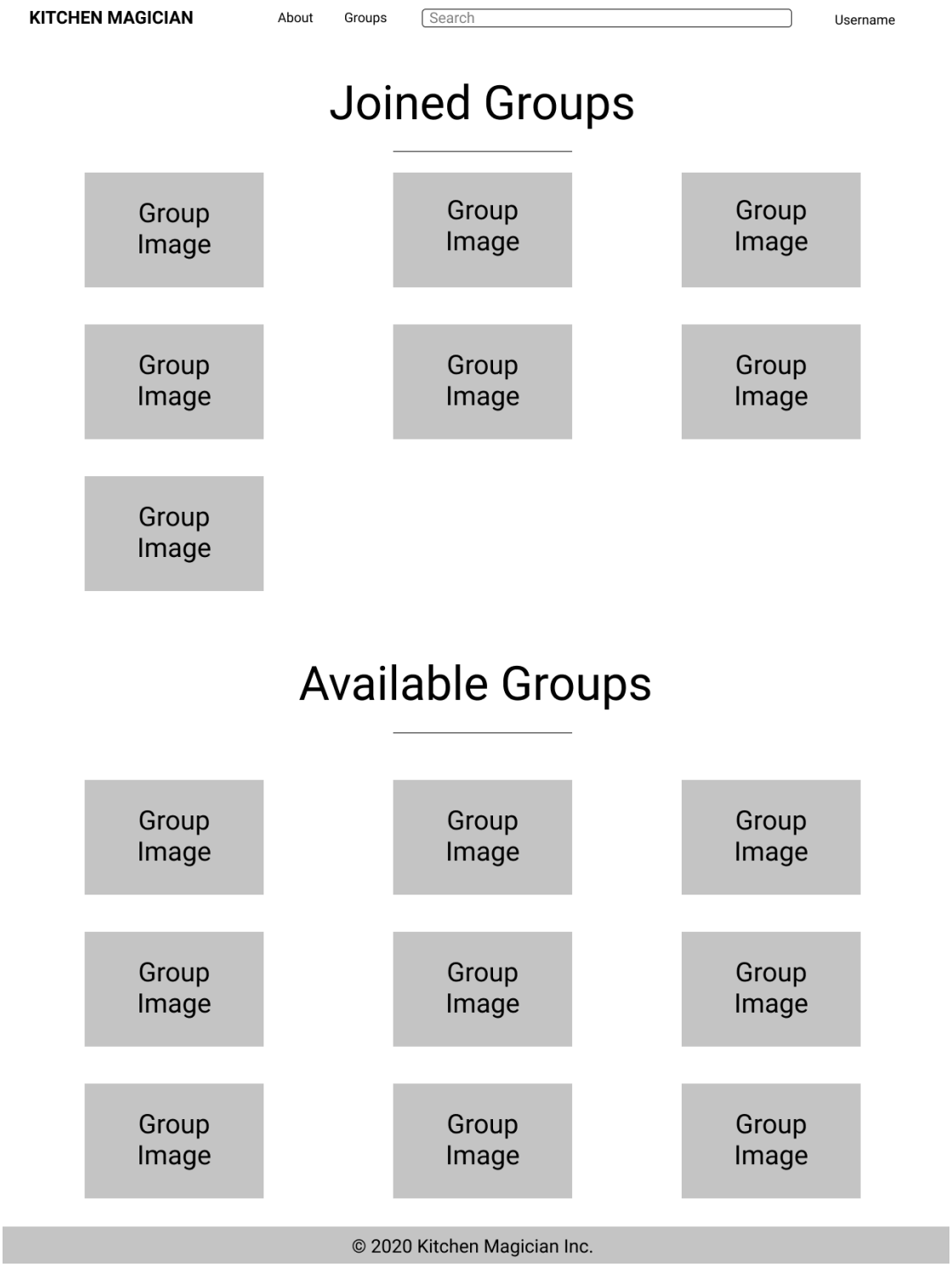
Tom puts Sarah's username into the username box and puts her password in the password box. He then proceeds to press the "Log In" button under the input boxes. He is then redirected to the home page.

Home Page Logged In:



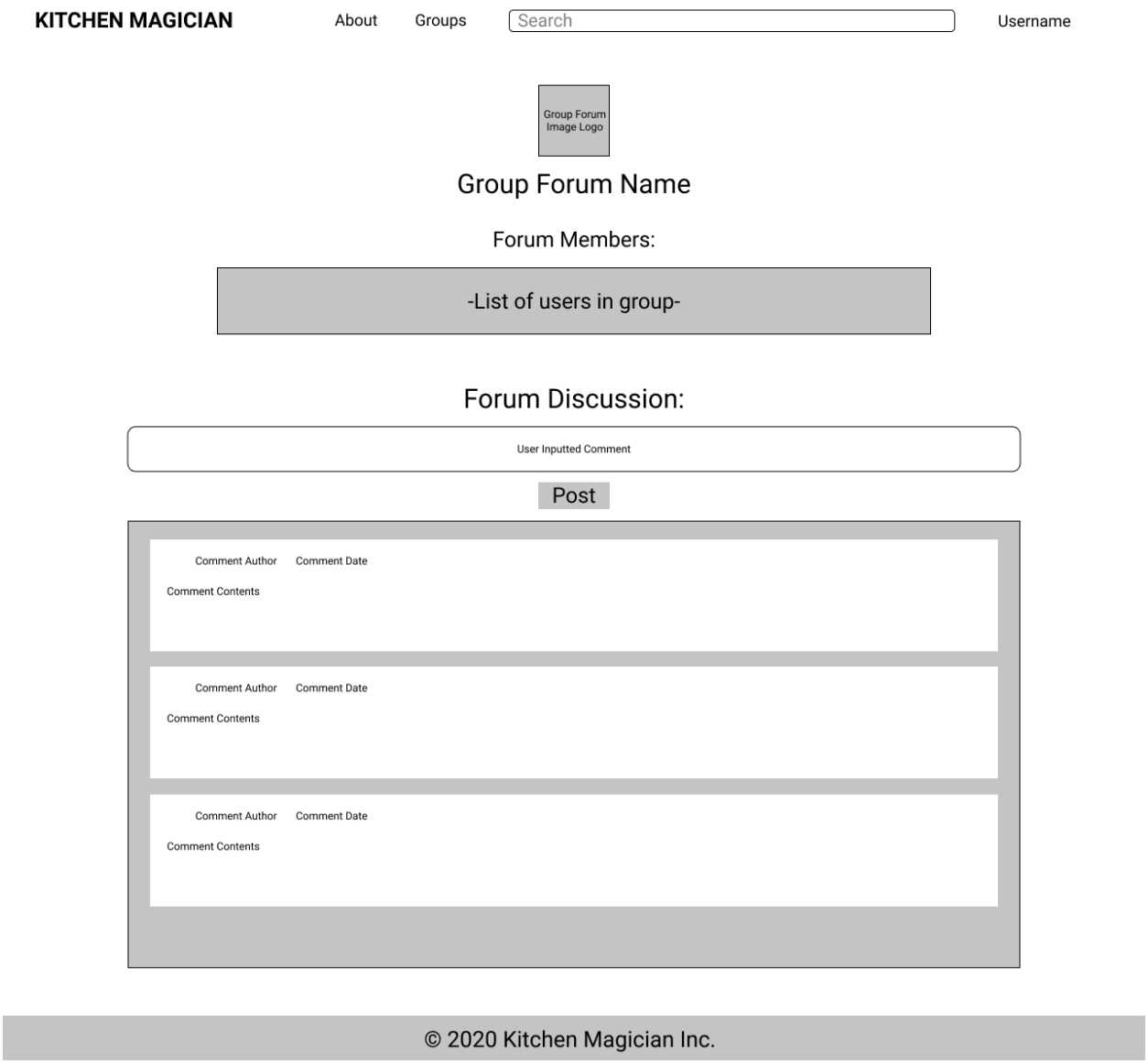
Tom then presses the groups button on the navigation bar at the top of the page to go to the groups page.

Groups Page:



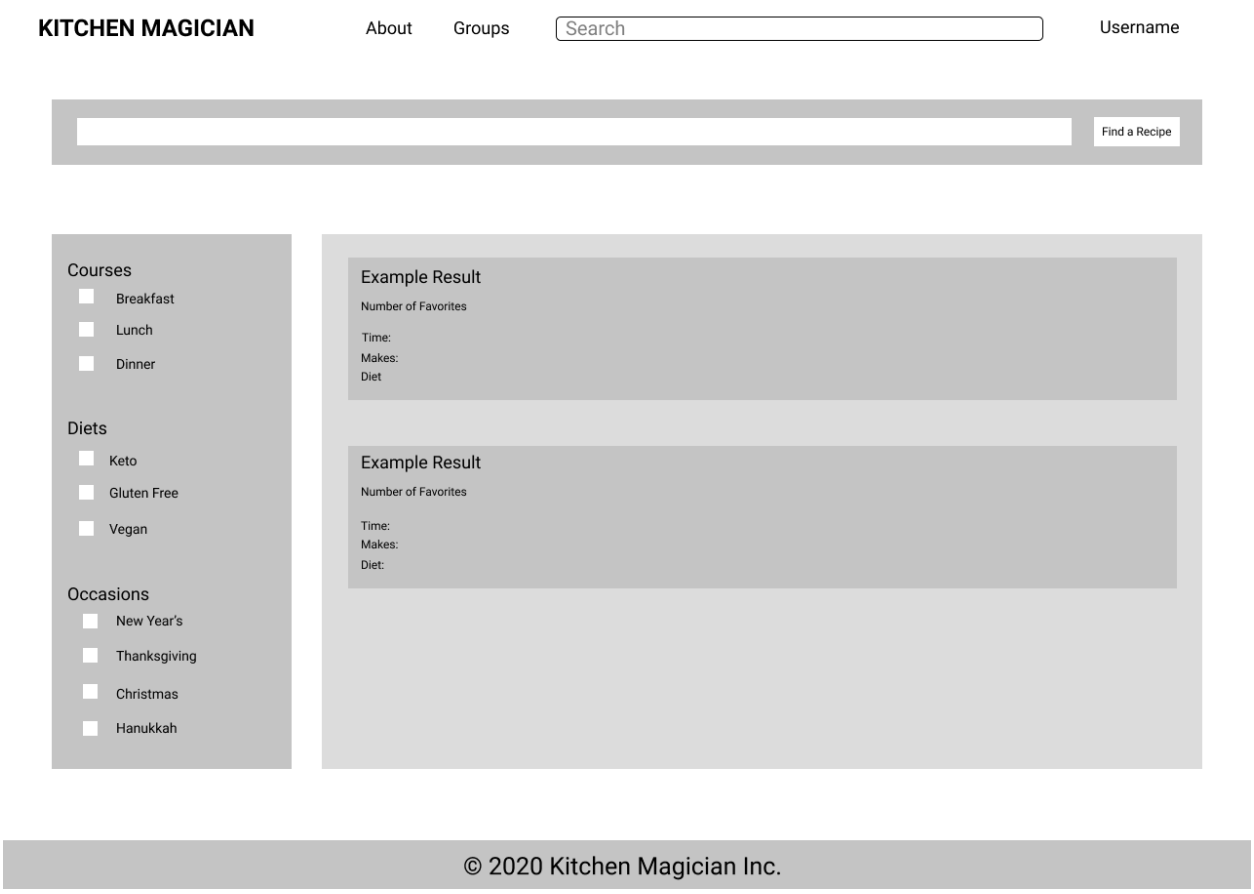
Tom lands on the groups page and clicks on one of the available groups to join. The page reloads and now in his joined groups section he clicks on the group he joined to get redirected to the group's group forum.

Group Forum Page:



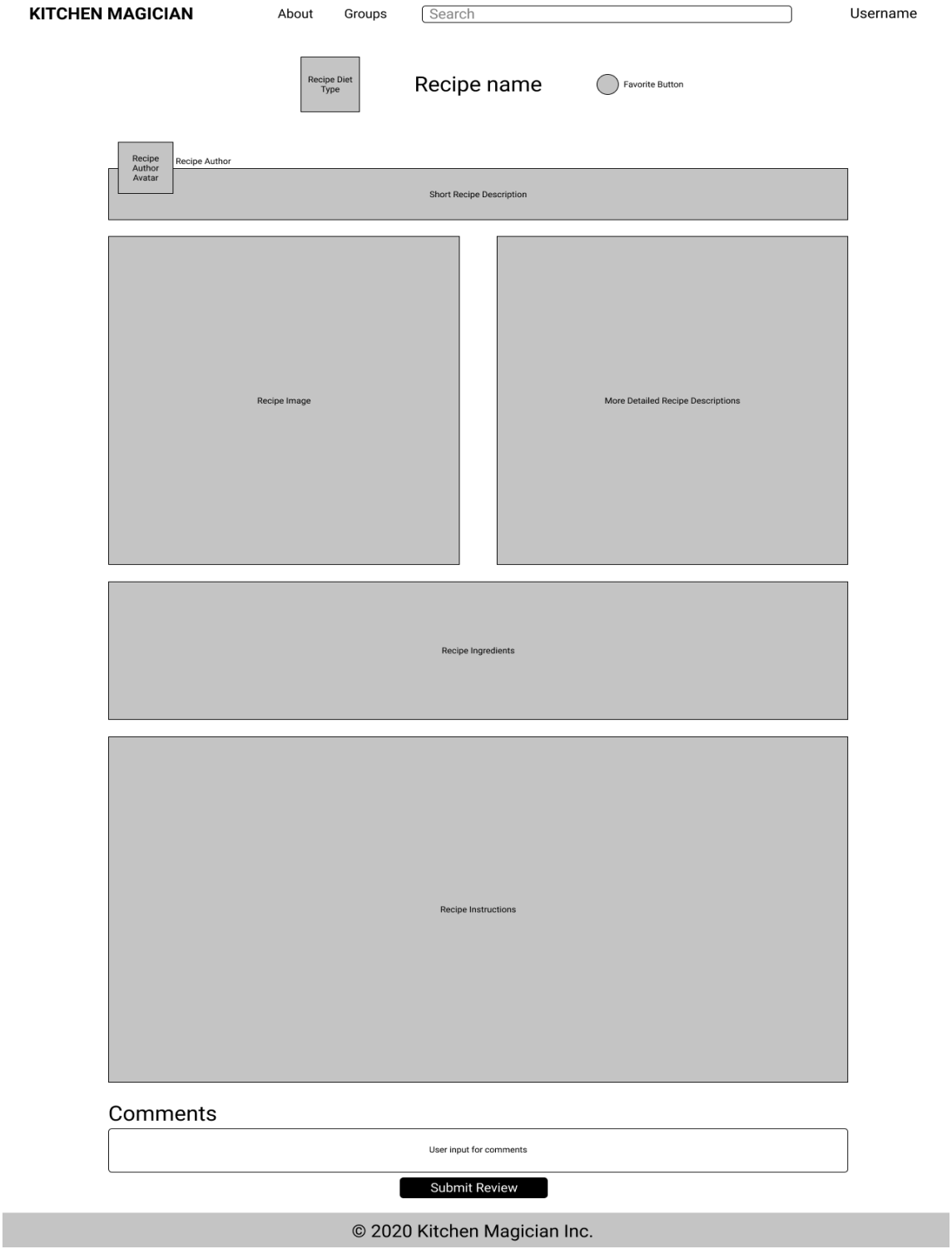
Tom types a question into the comment input under the Forum Discussion section and then clicks the post button under that to submit it. He returns later to see another comment replying to him. The comment informs him of a recipe that his recipe asked for. He then presses the search button on the navigation bar to go to the search page.

Search/Results Page:



Tom lands on the website's search page. He types in the specifics and filters given to him by the user who replied to him and then presses the find a recipe button to the left of the keywork input. His page refreshes and he sees the recipe that was suggested to him. He clicks on that recipe and is redirected to it's recipe page.

Recipe Page:


KITCHEN MAGICIAN
About
Groups
Search
Username
Recipe Diet Type
Recipe name
Favorite Button
Recipe Author Avatar
Recipe Author
Short Recipe Description
Recipe Image
More Detailed Recipe Descriptions
Recipe Ingredients
Recipe Instructions
Comments
User input for comments
Submit Review
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Section 4: High Level Database Architecture and Organization V2

Part 1: Business Rules

1. A registered user shall be able to favorite zero or many recipes.
    a. A recipe shall be able to be favorited by zero or many registered users.
2. A registered user shall be able to comment on zero or many recipes.
    a. A recipe comment section shall be able to be commented by zero or many users.
3. A registered user shall be able to join zero or many groups.
    a. A group can have zero or many registered users.
4. A group can contain zero or many recipes.
    a. A recipe shall belong to zero or many groups.
5. A register user shall have zero or many comments.
    a. A comment shall belong to one registered user.
6. A recipe can have one or many recipes information.
    a. A recipes information shall belong to one recipe.
7. A recipe can have one or many recipes instructions.
    a. A recipes instruction shall belong to one recipe.
8. A recipe can have one or many recipe images.
    a. A recipe image shall belong to one recipe.
9. A recipe can have zero or one recipe video.
    a. A recipe video shall belong to one recipe.

Part 2: High level explanation

Entities: The ERD model consists of users, groups, recipes, group_recipe, recipe_comment, group_comment, recipe_favorite, recipe_upvote, recipe_diet, recipe_diet_item, recipe_preparation_time_item, recipe_preparation_time_item, recipe_cooking_time, recipe_occasion, recipe_occasion_item, recipe_course, recipe_course_item, recipe_ingredient, recipe_ingredient_item, recipe_information, recipe_instruction, recipe_image, recipe_video, recipe_quantity_serve.

Attributes:

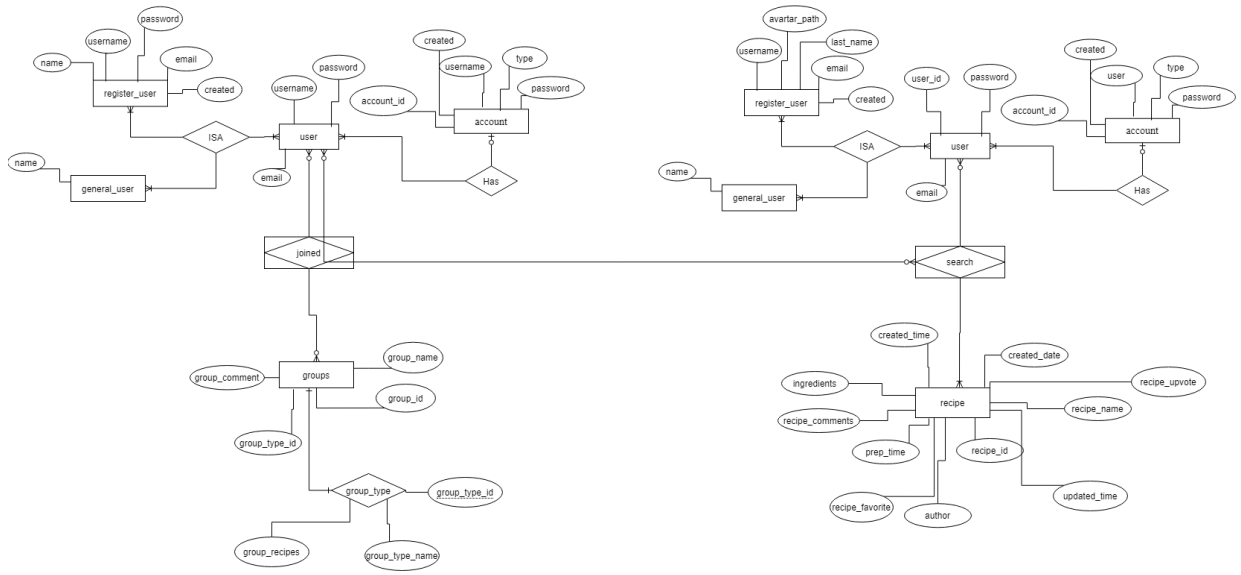
The attributes for the Entity Users are: id, user_name, email, password, avatar_path, created, updated.
The attributes for Entity group are: id, group_name, group_type_id.
The attributes for Entity recipe: id, name, user_id, preparation_time, created, updated
The attributes for Entity group_recipe are: id, recipe_id, group_id.
The attributes for Entity recipe_comment are: id, user_id
The attributes for Entity group_comment are: id, user_id, group_id, comment, created.
The attributes for Entity recipe_favorite are: id, user_id, recipe_id

The attributes for Entity recipe_avorite are: id, user_id, recipe_id
The attributes for Entity recipe_upvote are: id, user_id, recipe_id
The attributes for Entity recipe_diet are: id, name
The attributes for Entity recipe_diet_item: id, recipe_id, recipe_diet_id
The attributes for Entity recipe_preparation_time_item: id, recipe_id, recipe_preparation_time_id.
The attributes for Entity recipe_preparation_time: id, preparation_time, preparation_time_max, preparation_time_min.
The attributes for Entity recipe_cooking_time: id, cooking_time, cooking_time_max, cooking_time_min
The attributes for Entity recipe_occasion:id, name
The attributes for Entity recipe_occasion_item: id, recipe_id, recipe_occasion_id
The attributes for Entity recipe_course: id, name
The attributes for Entity recipe_course_item: id, recipe_id, recipe_ocassion_id
The attributes for Entity recipe_ingredient are: id, recipe_id, name
The attributes for Entity recipe_ingredient_item are: id, recipe_id, recipe_ingredient_id,
The attributes for Entity recipe_information are: id, recipe_id, name
The attributes for Entity recipe_image are: id, recipe_id, image
The attributes for Entity recipe_video are: id, recipe_id, video_link
The attributes for Entity recipe_quantity_serve are: id, quantity_serve, quantity_serve_num.

The relationships in the ERD consist of users being able to create a profile that will allow users to join groups. The groups will consist of recipes and each group will consist of different types. The groups will have comments between users as well. We also have a recipe page that will allow users to favorite recipes so it is stored in their favorites. The recipes can also be upvoted by users. Recipes will be of different types and shall include recipe ingredients, recipe information, recipe instruction, recipe image and recipe video. Users shall also be allowed to comment on the recipes.

Part 3: Database Model

ERD Diagram:


password
username
name
email
register_user
created
ISA
name
general_user
username
password
user
email
account_id
created
username
type
password
account
Has
joined
avartar_path
last_name
username
email
register_user
created
ISA
name
general_user
user_id
password
user
email
created
user
type
password
account_id
account
Has
search
created_time
created_date
ingredients
recipe_upvote
recipe
recipe_comments
recipe_name
prep_time
recipe_id
updated_time
recipe_favorite
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group_name
group_comment
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group_type_id
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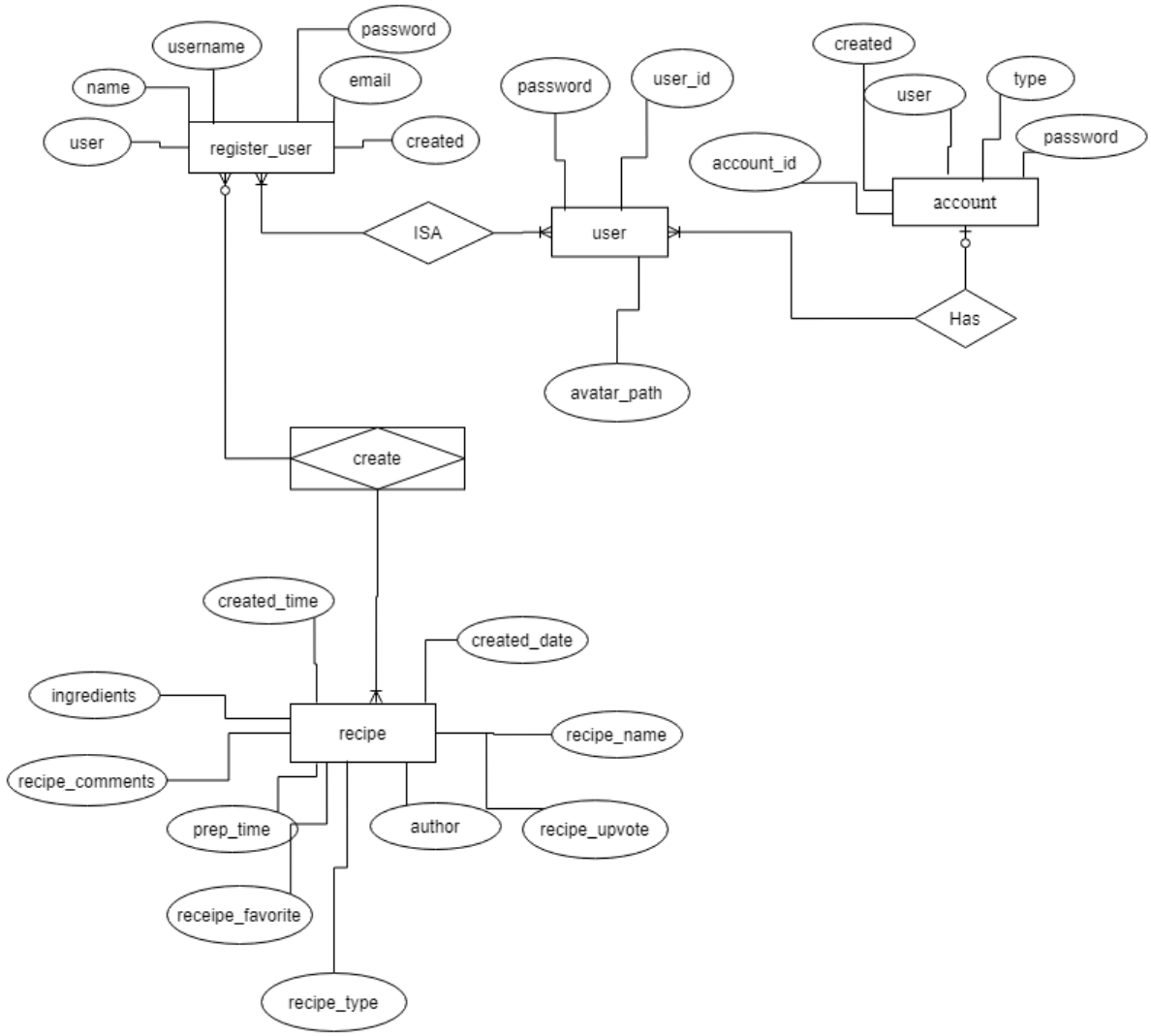
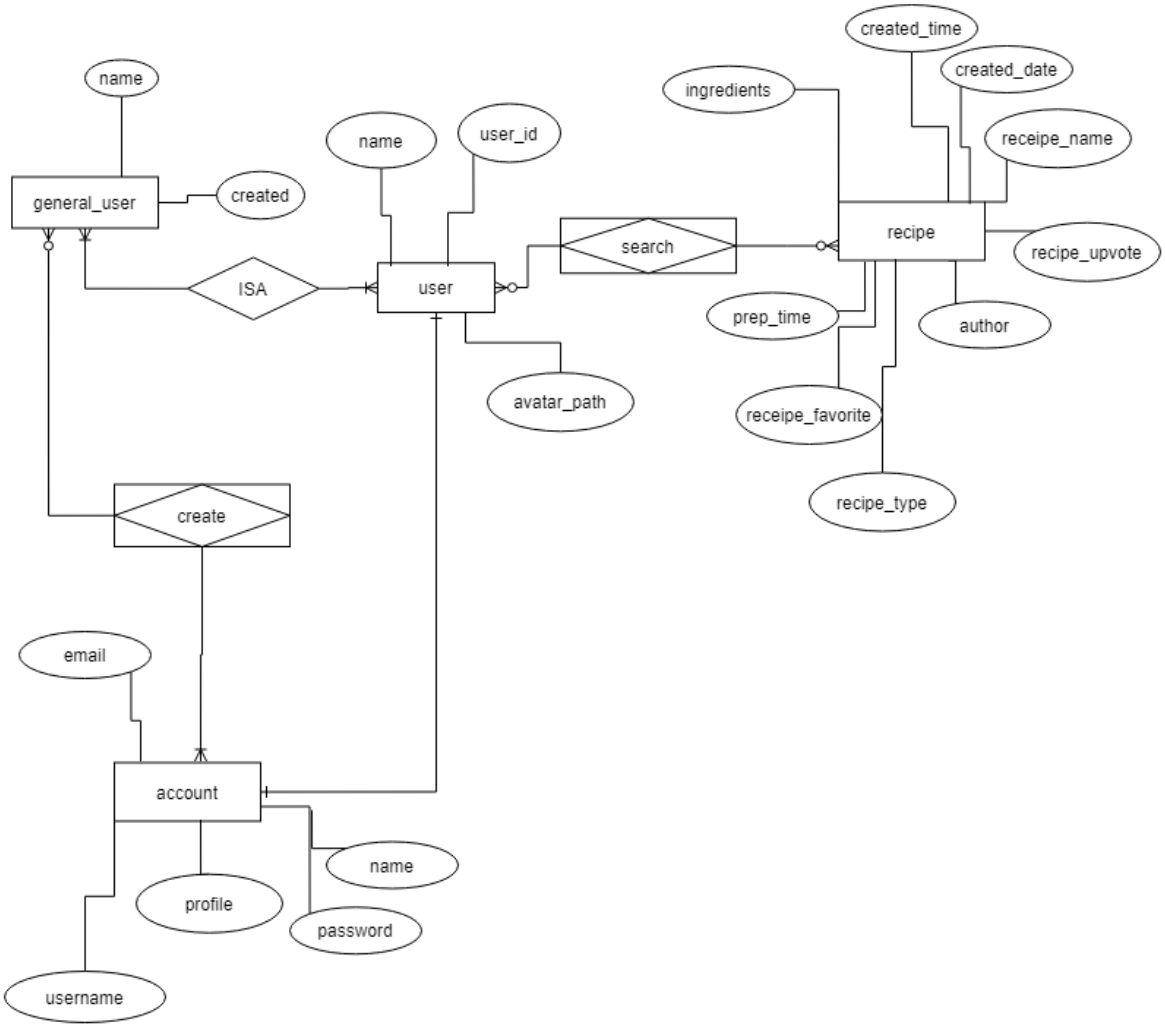
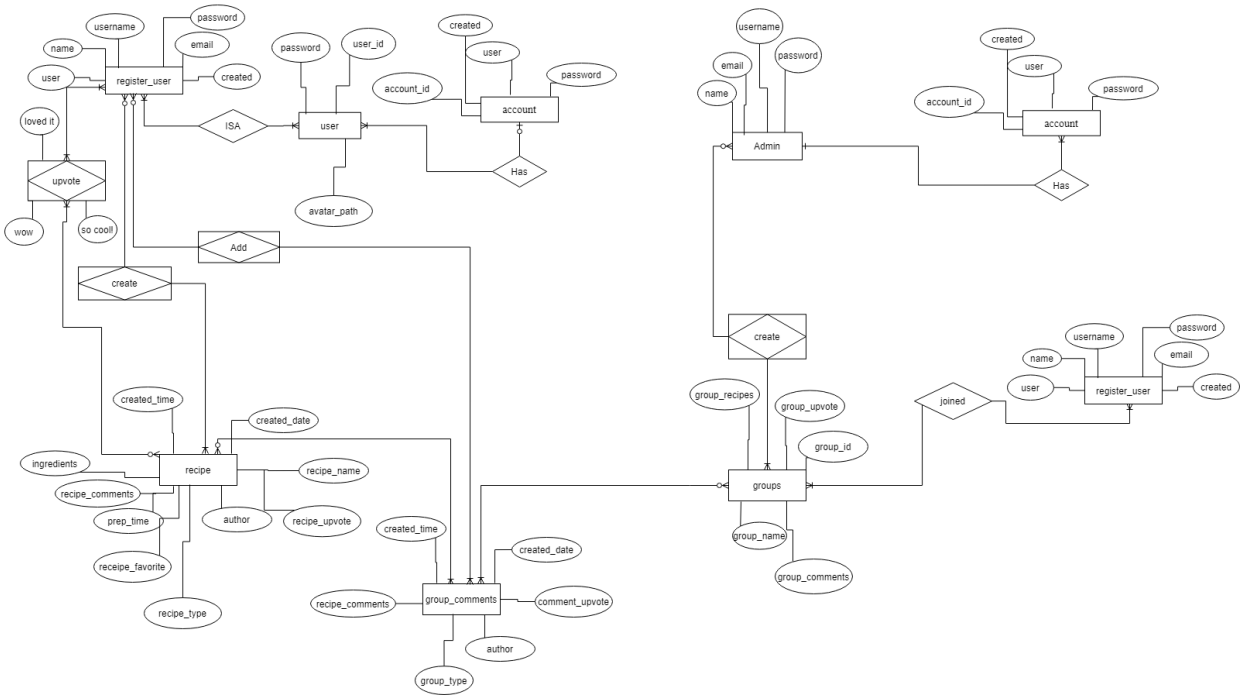
group_type_id
group_recipes
group_type_name



ERD Diagram cont.

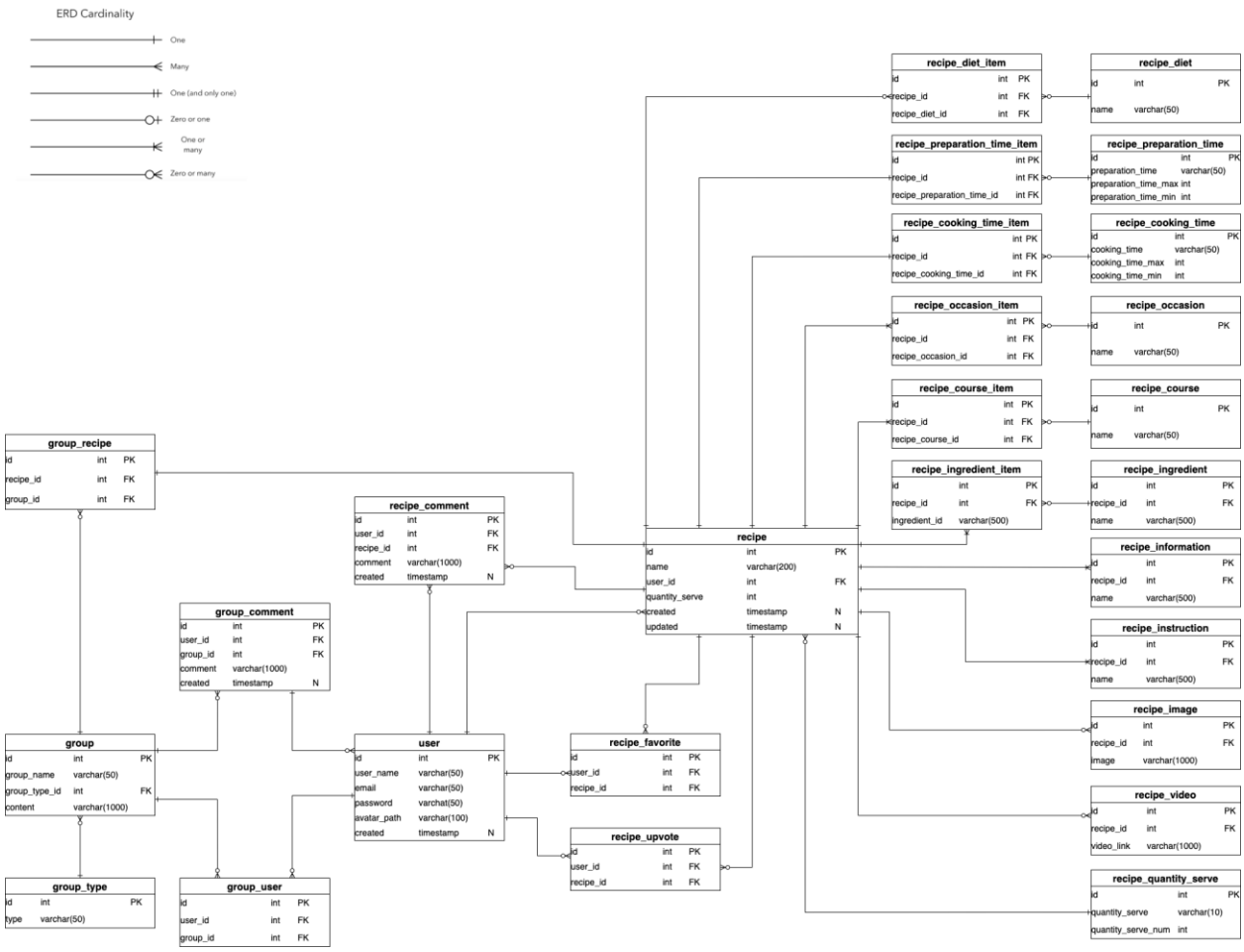


ERD Diagram cont.



ERD Diagram cont.

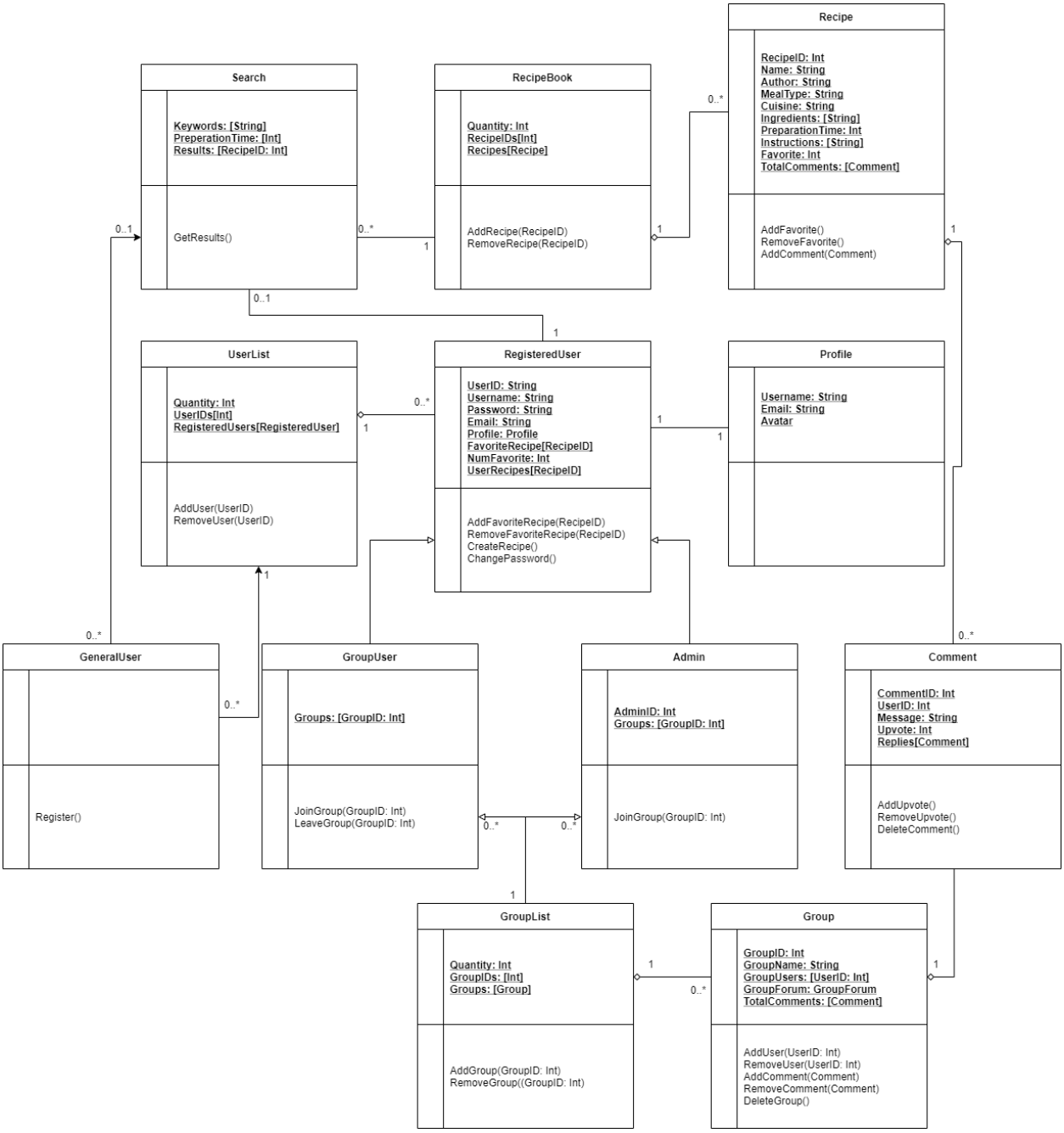
EER Diagram:



Part 4: DBMS

MySQL is the open source database management system used in this application because of its speed, flexibility and reliability.

Section 5: High Level UML Diagrams V2



Section 6: List of Contributions

1. Nicole Pang:

   Made connecting stories for storyboards, Profile page implementation, Profile page digital mockup, Search/Results page digital mockup, added captions for Emma storyboard, formatted M3 document, attended most meetings, set up meetings
2. Jeff Cheng:

   Home page implementation, Home page digital mockup, participated in the group meeting revising functionals, added captions for Alice storyboard, attended all meetings
3. Allen Sun:

   Sign up page implementation, Login page implementation, Create Recipe page implementation, Recipe page implementation, Search/Results page implementation, 404 Recipe not found implementation, participated in the group meeting revising functionals, provided instruction and steps for team members to learn frameworks, helped all team members learn frameworks, managed database, worked on section 4, attended most meetings
4. Paul Asu:

   Forgot password page implementation, Forgot password digital mockup, participated in the group meeting revising functionals, made ERD diagram missing from M2, added captions for Pamela storyboard, attended all meetings
5. Kevin Wei:

   Group Forum page implementation, About, Login, Signup, Group Forum, Create Recipe, Recipe not found digital mockups, participated in the group meeting revising functionals, added captions for Jim and Tom and Sarah storyboards, constructed storyboard paneling, reformatted functionals after review, helped members learn and debug code, gave feedback on page implementations, attended all meetings, set up meetings, ran meetings
6. Kevin Ortiz:

   Groups page implementation, Groups page digital mockup, participated in the group meeting revising functionals, made ERD diagram missing from M2, added captions for Andrew and Emma storyboards, helped members learn and debug code, worked on section 4, attended most meetings

Kitchen Magician

SW Engineering CSC648/848

FALL 2020

Team 01

Kevin Wei (Team Lead) : kwei3@mail.sfsu.edu

Allen Sun (Backend Lead)

Paul Asu (Github Master)

Nicole Pang (Developer)

Kevin Ortiz (Developer)

Jeff Cheng (Frontend Lead)

Milestone 4

History Table

Version	Date
M4V2	12/14/2020
M4V1	12/10/2020
M3V2	11/20/2020
M3V1	11/19/2020
M2V2	11/18/2020
M2V1	11/01/2020
M1V2	10/08/2020
M1V1	10/01/2020

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Section 7: List of Contributions 180

Section 1: Product Summary

Product Name: Kitchen Magician

Priority 1 Functions:

1. Unregistered Users will be able to register for an account.
2. Unregistered Users can register for an account.
3. Unregistered Users will provide an email and password when registering for an account.
4. Unregistered Users will see links to all the links to all the features our website has to offer on every page via the navigation bar and footer.
5. Unregistered Users can search for and view all recipes, including those trending on the home page.
6. Registered users can do everything unregistered users can, except create an account, because they already have one.
7. Registered Users will be able to log in via their username and password.
8. Registered Users will be able to favorite recipes and comment on them.
9. Registered Users will be able to make their own recipes.
10. Registered users will be able to see their favorite recipes and their own recipes on their profile page.
11. Registered Users will be able to view and join food groups to become group users, doing so will give them access to that food groups forum.
12. Groups Users can do everything registered users can, with the addition that they can comment on food group forums they are a part of to initial discussion.
13. Admins can do everything group users can, but also have access to the administrative page.
14. Admins can delete any comment, recipe or group.
15. Recipe's will all have a title, multiple categories to filter them and provide detail, multiple ingredients, multiple steps, and maybe a photo.
16. Recipes that are in the top five user favorited recipes will be labeled trending, in which it will be showcased on the home page.

All major committed functions

Priority 1:

General User:

1. Unregistered Users shall be able to register for an account.
2. Unregistered Users shall register for an account using a registration form.
   2.1. Unregistered Users shall see a user friendly registration form.
   2.2. Unregistered Users shall see a login link in the registration form.
3. Unregistered Users shall provide an email when registering for an account.
   3.1. Unregistered Users shall provide a valid email when registering for an account.

3.1. Unregistered Users shall provide a unique email when registering for an account.
4. Unregistered Users shall provide a username during registration.
6. Unregistered Users shall verify the password when registering for an account.
6.1. Unregistered Users shall provide the password when registering for an account.
6.2. Unregistered Users shall confirm the password when registering for an account.
7. Unregistered Users shall see a navigation bar on all pages.
7.1. Unregistered Users shall see a search bar on the navigation bar on all pages.
7.2. Unregistered Users shall see a footer on all pages.
9. Unregistered Users shall be able to search for recipes.
9.1. Unregistered Users shall be able to narrow down their search using filters.
10. Unregistered Users shall be able to view recipes.
10.1 Unregistered Users shall be able to view trending recipes on the home page.

Registered User:

13. Registered User shall be able to log in with a valid username.
14. Registered User shall be able to log in with a valid password.
15. Registered User shall be able to log out.
16. Registered User shall have only one profile page.
16.1 Registered User shall see favorite recipes on the profile page.
16.2 Registered User shall see its own recipes on the profile page.
18. Registered User shall be able to change their password.
22. Registered User shall see a navigation bar on pages.
22.1. Registered User shall see an input search on the navigation bar on all pages.
22.2 Registered Users shall see a footer on all pages.
23. Registered User shall be able to search for recipes.
23.1 Registered Users shall be able to narrow down their search using filters.
24. Registered User shall be able to view recipes.
24.1 Registered Users shall be able to view trending recipes on the home page.
25. Registered User shall be able to create their own recipes.
25.1 Registered User shall be able to upload images for recipes.
25.2 Registered User shall be able to select courses for recipes.
25.3 Registered User shall be able to select occasions for recipes.
25.4 Registered User shall be able to select courses for recipes.
25.5 Registered User shall be able to select preparation time for recipes.
25.6 Registered User shall be able to select cooking time for recipes.
25.7 Registered User shall be able to add ingredients for recipes.
25.8 Registered User shall be able to add information for recipes.
25.9 Registered User shall be able to add title for recipes.
25.10 Registered User shall be able to add instructions for recipes.
31. Registered User shall be able to add a comment on any recipe.
35. Registered User shall be able to favorite a recipe.

37. Registered User shall be able to view existing groups.
    37.1. Registered User shall be able to join a group.
    37.2. Registered Users shall be able to view group forums.
    37.3. Registered Users shall be able to see users in the group of the corresponding group forum.

Admin:

39. Admin shall be able to log in with a valid username.
40. Admin shall be able to log in with a valid password.
41. Admin shall be able to log out.
42. Admin shall have a profile page.
43. Admin shall be able to change their password.
44. Admin shall be able to reset account password at the profile page.
47. Admin shall see a navigation bar on all pages.
    47.1 Admin shall see a navigation bar on all pages.
    47.2 Admin shall see a different navigation bar on the administration page.
49. Admin shall be able to search for recipes.
    49.1 Admins shall be able to narrow down their search using filters.
50. Admin shall be able to view recipes.
    50.1 Registered Users shall be able to view trending recipes on the home page.
51. Admin shall be able to create their own recipes.
    51.1 Registered User shall be able to upload images for recipes.
    51.2 Registered User shall be able to select courses for recipes.
    51.3 Registered User shall be able to select occasions for recipes.
    51.4 Registered User shall be able to select courses for recipes.
    51.5 Registered User shall be able to select preparation time for recipes.
    51.6 Registered User shall be able to select cooking time for recipes.
    51.7 Registered User shall be able to add ingredients for recipes.
    51.8 Registered User shall be able to add information for recipes.
    51.9 Registered User shall be able to add title for recipes.
    51.10 Registered User shall be able to add instructions for recipes.
52. Admin shall be able to change contents of their own recipes.
    52.1. Admin shall be able to change any text of their own recipes.
    52.2. Admin shall be able to change any picture of their own recipes.
    52.3. Admin shall be able to change any video of their own recipes.
53. Admin shall be able to delete any recipes.
57. Admin shall be able to add a comment on any recipe.
    57.1. Admin shall be able to delete any comment.
59. Admin shall be able to favorite a recipe.
62. Admin shall be able to delete a group.
63. Admin shall be able to reset password for all users.

64. Registered User shall be able to view existing groups.
    64.1. Registered User shall be able to join a group.
    64.2. Registered Users shall be able to view group forums.
    64.3. Registered Users shall be able to see users in the group of the corresponding group forum.
65. Admin shall be able to delete messages from the group forum.

Recipe:

66. A recipe shall have a title.
67. A recipe shall have one or more recipe categories to be added for search.
68. A recipe shall have one or more keywords added for search.
69. A recipe shall have one or more ingredients to be added for search.
70. A recipe shall have one or more directions on how to finish the recipe.
71. A recipe should add zero or one photo.
72. A recipe shall be able to add a link to zero or one video.
73. A recipe will be labeled trending when it is in the top 5 recipes with the most favorites by users.
73.1. A recipe labeled trending will be showcased on the home page.

Group User:

76. Group User shall have all requirements that Registered Users Have
77. Group User shall be able to post to the forum.
    77.1 Group Users shall be able to join a group.
    77.2 Group Users shall be able to leave a group.
78. Groups users shall be able to see users who are a part of the same group.

What is unique in our product: What makes our product unique is that we do not rely on “professional chefs” to curate our entire recipe selection. Our selection is curated not only by professionals, but also by everyday folk, who have been making their signature recipes for generations. Professional chefs do know their craft, but they don’t always get it authentic. How many times have you seen an Italian mortified at the sight of an inauthentic carbonara, or a Spaniard with a paella. Sometimes, the real professionals are people like you. Someone who has been making their family recipe the traditional way as long as they can remember. Anyone will be able to make an account and join our community to showcase what authentic recipes are to them. The most popular recipes chosen by that very community will also be on showcase on the homepage for everyone to see. For those that are even more passionate, they can join our various food groups to have in-depth discussions about this medium that brings us all together in food.

Our website is built on our community and we want to push that home. Our website is driven by you.

URL Link to Product: www.allensun623.com

Section 2: Usability Testing Plan

1) Trending Features
   a) Test Objectives:
      i) Trending recipes is a feature which is key to let users know what the most popular dishes that the Admin recommends to the users. 5 different recipes will be displayed in a sliding animation where users can see what is available. We added this feature because there are times when people visit a recipe website where they are simply unsure of what recipe to follow. This allows these users to get started on their next dish.
   b) Test Description:
      i) System Setup: the tests were conducted on a Windows 10 64-bit machine Build 19041.572, as it is the most up-to-date version of Windows OS at the time of testing. The browser used is Google Chrome Version 87.0.4280.88 as it is the most up-to-date version of Google Chrome at the time of testing.
      ii) Starting Point: in order to reach the trending recipes, a user will need to scroll down to the bottom of the Home page.
      iii) Intended Users: The users who will find this feature helpful will be the users who visit Kitchen Magician without any idea of what to cook. The great thing about the feature is that it allows users to get their ideas flowing on what dish they want to eat.
      iv) URL of the system to be tested: https://www.allensun623.com/ this URL provides the link to the trending feature which is located on the Home page.
   c) Usability Task Description:
      i) Visit https://www.allensun623.com/.
      ii) Scroll down on the Home page.
      iii) View the top 5 trending recipes.
      iv) Search a recipe keyword using the search bar.
      v) View recipe details.
      vi) Follow instructions to make the dish.
   d) Usability Test Table
      i)

Task	Completed	Errors	Comments
View top 5 trending recipes	5/5	none	They were on the home page and were easy to see

Search for a recipe using the search bar	4/5	none	I liked that it showed examples of what to type in the search bar
View recipe	4/5	none	Was intuitive to click on the recipe to view its page

e) Questionnaire:
   i) The website made it easy to find the trending recipes.
      Strongly agree Agree Neutral Disagree Strongly Disagree
   ii) I was able to get an idea of what dish to cook.
      Strongly agree Agree Neutral Disagree Strongly Disagree
   iii) The recipes on the trending slide were easy to find.
      Strongly agree Agree Neutral Disagree Strongly Disagree

2) Group Features
   a) Test Objectives:
      i) The group feature allows Registered Users to join pre-existing groups named after the diets they cater to. A Registered User is able to join more than one group. After joining a group, the members may post to a group forum.
      All group members of the same group can view and post on the corresponding group forum. We are testing this feature to see if the user is able to successfully join and leave a group or multiple groups, view and post to their designated group form.
   b) Test Description:
      i) System Setup: the tests were conducted on a Windows 10 64-bit machine Build 19041.572, as it is the most up-to-date version of Windows OS at the time of testing. The browser used is Google Chrome Version 87.0.4280.88 as it is the most up-to-date version of Google Chrome at the time of testing.
      ii) Starting Point: The starting point is the group page of the Kitchen Magician website.
      iii) Intended Users: Registered users who want to connect with other registered users that share the same diet.
      iv) URL of system to be tested: https://www.allensun623.com/groups/.
   c) Usability Task Description:

i) View available groups.
ii) Join a group.
iii) View joined groups.
iv) View group members of a joined group.
v) Post on the group discussion.
vi) View existing posts on the group discussion.
vii) Leave a group.

d) Usability Test

i)

Task	Completed	Errors	Comments
View available groups	5/5	none	none
Successfully join a group	5/5	none	none
View joined group	3/5	Had to go back to groups page to view all joined groups	none
View group members of a group	4/5	Had to go to group form page to view group members	none

ii)

e) Likert Questionnaire:

i) It was easy to join a group.
Strongly agree Agree Neutral Disagree Strongly Disagree

ii) I understood the differences between each group.
Strongly agree Agree Neutral Disagree Strongly Disagree

iii) I was able to successfully navigate to the group discussion form on my own.
Strongly agree Agree Neutral Disagree Strongly Disagree

iv) I was able to successfully post to the group discussion.
Strongly agree Agree Neutral Disagree Strongly Disagree

3) <u>Search Function</u>

a) Test Objectives:

i) The search function allows users to interface with available recipes stored on the database using search query. Specifically, users shall be able to retrieve a set of recipes based on their search criteria, and if no criteria has been specified, the entire database of recipes will be returned.

b) Test Description:
   i) System Setup: the tests were conducted on a Windows 10 64-bit machine Build 19041.572, as it is the most up-to-date version of Windows OS at the time of testing. The browser used is Google Chrome Version 87.0.4280.88 as it is the most up-to-date version of Google Chrome at the time of testing.
   ii) Starting Point: The starting point is the group page of the Kitchen Magician website.
   iii) Intended Users: Registered users who want to connect with other registered users that share the same diet.
   iv) URL of System to be Tested: https://www.allensun623.com/search/.
c) Usability Task Description:
   i) View all available recipes with no criteria specified.
   ii) Search for recipes matching given criteria.
d) Usability Test Table
   i)

Task	Completed	Errors	Comments
Search for a recipe using the search bar	3/5	none	I didn't know if i should use the search bar on the top or middle of the page
Use the search filters	5/5	Had to look for filters	none

e) Likert Questionnaire:
   i) It was easy to search for recipes.
      Strongly agree Agree Neutral Disagree Strongly Disagree
   ii) The Search/Results page was easy to understand.
      Strongly agree Agree Neutral Disagree Strongly Disagree
   iii) I could understand what the extra search filters did to my search.
      Strongly agree Agree Neutral Disagree Strongly Disagree

4) Recipe Creation
   a) Test Objectives:
      i) To ensure a logged-in registered user can successfully trigger the corresponding feature, submit all required input, and store relevant data in the database.

b) Test Description:
   i) System Setup: the tests were conducted on a Windows 10 64-bit machine Build 19041.572, as it is the most up-to-date version of Windows OS at the time of testing. The browser used is Google Chrome Version 87.0.4280.88 as it is the most up-to-date version of Google Chrome at the time of testing.
   ii) Starting Point: The starting points are the home page of the Kitchen Magician website, and the search box in the navigation bar on any page.
   iii) Intended Users: All users who want to conduct a search of recipes, with and without search criteria.
   iv) URL of system to be tested: https://www.allensun623.com/groups/.

c) Usability Task Description:
   i) Create a recipe with one photo upload.
   ii) Verify successful recipe creation through search.
   iii) Verify that the process of recipe creation is intuitive and easy, i.e users are aware where the feature is found and/or triggered.

d) Usability Test Tables
   i)

Task	Completed	Errors	Comments
Navigate to create recipe page	3/5	Didn't know there was a drop down	none
Successfully create a recipe	5/5	none	Everything on the page was clear
View the recipe's page	5/5	none	Was redirected to recipe page after successful creation

e) Likert Questionnaire:
   i) It is clear which data are necessary, and which data are optional on the page.
      Strongly agree Agree Neutral Disagree Strongly Disagree
   ii) It was intuitive to provide necessary data to create a recipe (the instructions are clear).
      Strongly agree Agree Neutral Disagree Strongly Disagree
   iii) It was easy to upload a photo for a recipe.
      Strongly agree Agree Neutral Disagree Strongly Disagree

iv) Overall, it was easy to create a recipe.
Strongly agree Agree Neutral Disagree Strongly Disagree

5) Recipe Contents: i.e. favorite and comments
   a) Test Objectives:
      i) To ensure a Registered User who is logged-in can successfully add a comment and favorite to a recipe. The Register User who is logged in should be able to favorite and add comment(s) to any recipes with ease.
   b) Test Description:
      i) System Setup: the tests were conducted on a Windows 10 64-bit machine Build 19041.572, as it is the most up-to-date version of Windows OS at the time of testing. The browser used is Google Chrome Version 87.0.4280.88 as it is the most up-to-date version of Google Chrome at the time of testing.
      ii) Starting Point: The starting point is the recipe page of the Kitchen Magician website.
      iii) Intended Users: Registered Users who want to favorite and add comments to a recipe that he/she likes.
      iv) URL of system to be tested: https://www.allensun623.com/recipe/1
   c) Usability Task Description:
      i) Once they have signed in, the approval of which triggers an alternate navigation panel.
      ii) Log in to the account.
      iii) Search recipes using the search recipe bar.
      iv) Go to the recipe page from the search recipe result page.
      v) And then favorite the recipe on the top of the page.
      vi) Then go to the bottom of the recipe page where you can add a comment.
   d) Usability Test Table
      i)

Task	Completed	Errors	Comments
Navigate to search/result page	3/5	Not clear how to get to search/result page	Had difficulty
Favorite a recipe	4/5	none	Didnt know tht the heart meant to favorite a recipe
Comment on the	5/5	none	Had to scroll

recipe			down to add comment

e) Likert Questionnaire:

i) The add comments/favorite page was easy to understand.

Strongly agree Agree Neutral Disagree Strongly Disagree

ii) It was easy to favorite a recipe.

Strongly agree Agree Neutral Disagree Strongly Disagree

iii) It is clear which data are necessary, and which data are optional on the page.

Strongly agree Agree Neutral Disagree Strongly Disagree

iv) It was easy to add comments to a recipe.

Strongly agree Agree Neutral Disagree Strongly Disagree

v) It was easy to upload a photo for a recipe.

Strongly agree Agree Neutral Disagree Strongly Disagree

vi) Overall, I was able to add comments and favorite recipes within 10 seconds.

Strongly agree Agree Neutral Disagree Strongly Disagree

Section 3: QA Test Plan

Number	Test Title	Description	Test Input	Expected Output	Pass/Fail
1	Test like name field	Test % in LIKE name field	“cake”	Get 5 results with word “cake”	Pass
2	Test keywords split	Test split words by space	"turkey thanksgiving"	Get keywords as a list [‘turkey’, ‘thanksgiving’]	Pass
3	Test keywords split	Test split words by comma	"turkey, thanksgiving"	Get keywords as a list [‘turkey’, ‘thanksgiving’]	Pass
4	Test Query	Test a query with a condition in table recipe_favorite	SELECT * FROM recipe_favorite WHERE user_id =1;	Get 7 results	Pass
5	Test Query	Test a query with a condition in table recipe	SELECT * FROM recipe WHERE user_id =1;	Get 10 results	Pass

1. Test Plan for Number 1
    a. Test Objectives:
        i. What is being tested: search query using a single keyword
        ii. What is not being tested: search query using multiple keywords, including a single space-separated keyword phrase
    b. Setup of HW and SW: cloud instance on GCP, mySQL running
    c. Test environment: supported desktop browsers
        i. Human resource needs: input sample data in the search box
        ii. Expected time to complete: within constraints set by the nonfunctional requirements, i.e. within seconds
    d. Risks, contingencies: Invalid input should return null, i.e. no results
    e. End report format requirements
        i.

Number	Description	Test Input	Expected Output	Pass/Fail

1a	Test % in LIKE name field	“shrimp”	get some results with word “shrimp”	Pass
1b	Test % in LIKE name field	“salmon”	get some results with word “salmon”	Pass
1c	Test % in LIKE name field	“crab”	get some results with word “crab”	Pass

f. Actual test sequence, test input, and test expected results
   i. Test sequence:
      1. Type “turkey thanksgiving”, press the Enter key (or Find a Recipe, if desired, but does not affect functionality), and, if available, query results should indicate results containing the key word specified
      2. Test input: turkey thanksgiving
      3. Test expected results: A number of recipes containing the keyword shrimp, if any such recipes exist in the database.

g. Final Report

Number	Description	Test Input	Expected Output	Pass/Fail
1a	Test % in LIKE name field	“shrimp”	get some results with word “shrimp”	Pass
1b	Test % in LIKE name field	“salmon”	get some results with word “salmon”	Pass
1c	Test % in LIKE name field	“crab”	get some results with word “crab”	Pass

2. Test Plan for Number 2

a. Test Objectives:
   i. What is being tested: search query using a single keyword
   ii. What is not being tested: search query using multiple keywords, including a single space-separated keyword phrase

b. Setup of HW and SW: cloud instance on GCP, mySQL running
c. Test environment: supported desktop browsers
    i. Human resource needs: input sample data in the search box
    ii. Expected time to complete: within constraints set by the nonfunctional requirements, i.e. within seconds
d. Risks, contingencies: Invalid input should return null, i.e. no results
e. End report format requirements
    i.

Number	Description	Test Input	Expected Output	Pass/Fail
1a	Test split words by space	"turkey thanksgiving"	get some results with the words turkey and thanksgiving	Pass
1b	Test split words by space	“vegan donut”	get some results with the words vegan and donut	Pass
1c	Test split words by space	“pancake buttermilk”	get some results with the words pancake and buttermilk	Pass

f. Actual test sequence, test input, and test expected results
    i. Test sequence:
        1. Type “turkey thanksgiving”, press the Enter key (or Find a Recipe, if desired, but does not affect functionality), and, if available, query results should indicate results containing the key word specified
        2. Test input: turkey thanksgiving
        3. Test expected results: A number of recipes containing the keywords turkey and thanksgiving, if any such recipes exist in the database.
g. Final Report

Number	Description	Test Input	Expected Output	Pass/Fail
1a	Test split words by space	"turkey thanksgiving"	get some results with the words	Pass

			“"turkey thanksgiving"”	
1b	Test split words by space	“vegan donut”	get some results with the words “"turkey thanksgiving"”	Pass
1c	Test split words by space	“pancake buttermilk”	get some results with the words “"turkey thanksgiving"”	Pass

3. Test Plan for Number 3
    a. Test objectives:
        i. What is being tested: search query using two keywords separated by a comma
        ii. What is not being tested: search query using single keyword, using two keywords separated by a space, using two keywords separated by nothing
    b. Setup of HW and SW: Cloud instance on GCP, mySQL
    c. Test environment: Google Chrome Version 87.0.4280.88
        i. Human resource needs: Input sample data in the search box
        ii. Expected time to complete: Within 10 seconds.
    d. Risks, contingencies:
        i. Invalid input should return null, i.e. no results
    e. End report format requirements
        i.

Number	Description	Test Input	Expected Output	Pass/Fail
1a	Test split words by comma	"chicken, pie"	Recipe results with the words chicken and pie	Pass

1b	Test split words by comma	“vegan, donut”	Recipe results with the words vegan and donut	Pass
1c	Test split words by comma	“pancake, buttermilk”	Recipe results with the words vegan and donut.	Pass

f. Actual test sequence, test input, and test expected results
   i. Test sequence:
      1. Type “chicken, pie”, press the Enter key (or Find a Recipe, if desired, but does not affect functionality), and, if available, query results should indicate results containing the key word specified
      2. Test input: chicken, pie
      3. Test expected results: A number of recipes containing the keywords chicken or pie, if any such recipes exist in the database.

g. Final Report
   i.

Number	Description	Test Input	Expected Output	Pass/Fail
1a	Test split words by comma	"chicken, pie"	Recipe results with the words chicken and pie	Pass
1b	Test split words by comma	“vegan, donut”	Recipe results with the words vegan and donut	Pass
1c	Test split words by comma	“pancake, buttermilk”	Recipe results with the words vegan and donut.	Pass

1. Test Plan for Number 4

a. Test Objectives:
   i. What is being tested: Testing a query with a condition in table recipe_favorite

ii. What is not being tested: Testing a query with two conditions in table recipe_favortie, testing a query with more than two conditions in table recipe_favorite

b. HW and SW Setup: Cloud Instance on Google Cloud Platform, mySQL
c. Test Environment: Windows 10 version 1909
   i. Human resource needs: Input mySQL code into terminal
   ii. Expected time to complete: Within 10 seconds.
d. Risks, Contingencies: Invalid input should return null or nothing
e. End Report Format Requirements
   i.

Number	Description	Test Input	Expected Output	Pass/Fail
1a	Test a query with a condition in table recipe_favorite	“SELECT * FROM recipe_favorite WHERE user_id =1;”	Get 4 results	Pass
1b	Test a query with a condition in table recipe_favorite	“SELECT * FROM recipe_favorite WHERE user_id =2;”	Get 1 result	Pass
1c	Test a query with a condition in table recipe_favorite	“SELECT * FROM recipe_favorite WHERE user_id =6;”	Get 3 results	Pass

f. Actual Test Sequence
   i. Test Sequence
      1. Type “SELECT * FROM recipe_favorite WHERE user_id =1;” in the terminal and press the Enter key. if available, the query results should return results with the user_id that is equal to 1
      2. Test input: “SELECT * FROM recipe_favorite WHERE user_id =1;”
      3. Test expected results: A list of recipes where their user_id is equal to 1
g. Final Report
   i.

Number	Description	Test Input	Expected Output	Pass/Fail
1a	Test a query with a	“SELECT *	Get 4 results	Pass

	condition in table recipe_favorite	FROM recipe_favorite WHERE user_id =1;”		
1b	Test a query with a condition in table recipe_favorite	“SELECT * FROM recipe_favorite WHERE user_id =2;”	Get 1 result	Pass
1c	Test a query with a condition in table recipe_favorite	“SELECT * FROM recipe_favorite WHERE user_id =6;”	Get 3 results	Pass

Test plan for Number 5

a. Test Objectives:
   i. What is being tested: A test query with a condition in a table recipe that can return 10 results.
   ii. What is not being tested: Testing a query with letters.
b. HW and SW setup: Cloud instance on GCP, mySQL
c. Test environment: macOS Mojave version 10.14.6
   i. Human resource needs: Input mySQL code into terminal
   ii. Expected time to complete: Within 10 seconds
d. Risk, Contingencies: Any input that does not have a registered user_id shall output “no result”
e. End Report Format Requirements:
   i.

Number	Description	Test Input	Expected Output	Pass/Fail
1a	Test a query with a condition in table recipe	“SELECT * FROM recipe WHERE user_id =1;”	The query should output 10 results	pass
1b	Test a query with a condition in table	“SELECT * FROM recipe WHERE user_id	The query should output 0	pass

	recipe	=2;”		
1c	Test a query with a condition in table recipe	“SELECT * FROM recipe WHERE user_id =8;”	The query should output 1	Pass

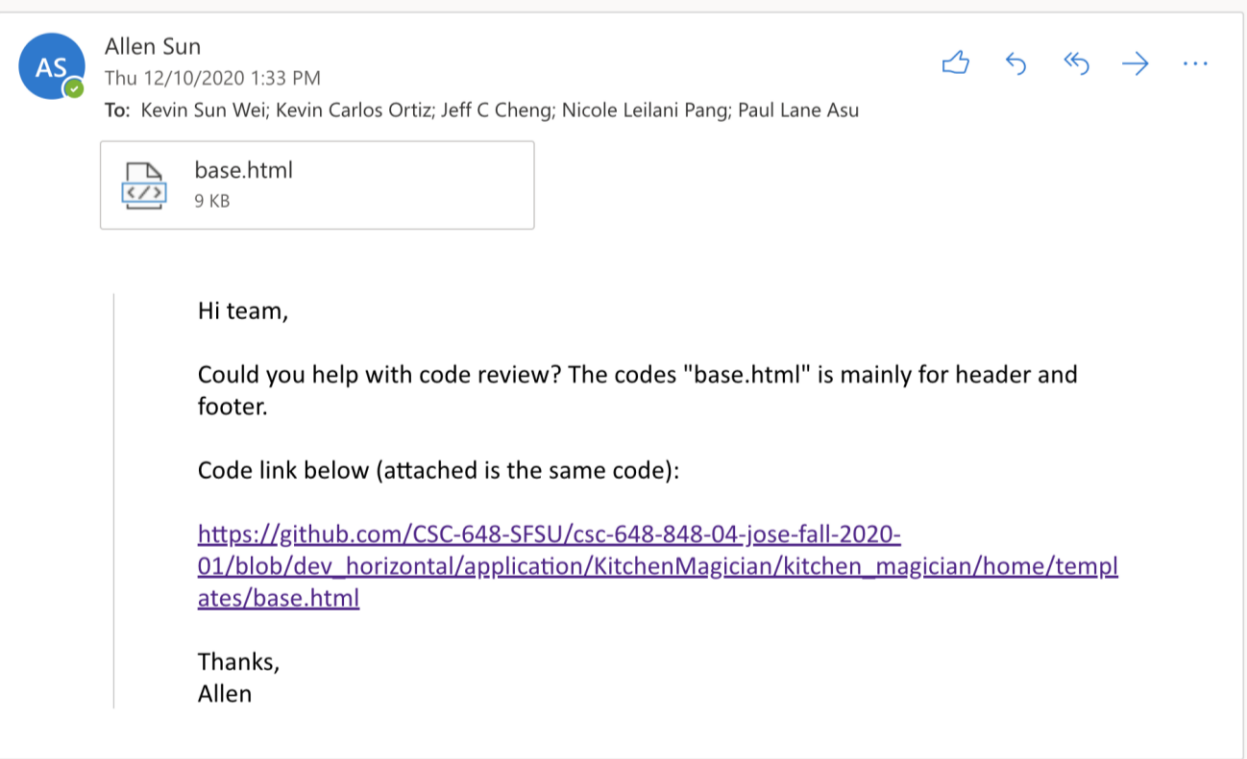
f. Actual Test Sequence:
   i. Test Sequence
      1. Input SELECT * FROM recipe WHERE user_id =1; in terminal and press ENTER. This will give the amount of recipes that the user_id =1 has created. The information on this table will include: name of recipe, quantity_serve, created, uopated, id, user_id.
      2. Input SELECT * FROM recipe WHERE user_id =2; in terminal and press ENTER will give a 0 result output. A 0 result output means the user has not created any recipes

g. Final Report:
   i.

Number	Description	Test Input	Expected Output	Pass/fail
1a	Test a query with a condition in table recipe	“SELECT * FROM recipe WHERE user_id =1;”	The query should output 10 results	Pass
1b	Test a query with a condition in table recipe	“SELECT * FROM recipe WHERE user_id =2;”	The query should output 0	Pass
1c	Test a query with a condition in table recipe	“SELECT * FROM recipe WHERE user_id =8;”	The query should output 1	Pass

Section 4: Code Review

Internal Code Review Request:



Allen Sun
Thu 12/10/2020 1:33 PM
To: Kevin Sun Wei; Kevin Carlos Ortiz; Jeff C Cheng; Nicole Leilani Pang; Paul Lane Asu

base.html
9 KB

Hi team,

Could you help with code review? The codes "base.html" is mainly for header and footer.

Code link below (attached is the same code):

https://github.com/CSC-648-SFSU/csc-648-848-04-jose-fall-2020-01/blob/dev_horizontal/application/KitchenMagician/kitchen_magician/home/templates/base.html

Thanks,
Allen

Original Code:

```
{% load static %}

<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <link href="https://fonts.googleapis.com/css2?family=Lato:wght@300&display=swap" rel="stylesheet"/>
        <link rel="icon" href="{% static 'home/images/icon.png' %}">
        <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css" integrity="sha384-TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2" cros
        <link rel="stylesheet" type="text/css" href="{% static 'home/css/base.css' %}" />
        {% block css %}{% endblock css %}

        {% if title %}
        <title>Kitchen Magician - {{ title }}</title>
        {% else %}
        <title>Kitchen Magician</title>
        {% endif %}
    </head>


    <body>
        <header id="header">
            <div class="container">
                <a href="{% url 'home' %}" class="KitchenMagician">
                    <img src="{% static 'home/images/logo_red.png' %}" alt="logo_red">
                </a>
                <ul id="ul-nav-link">
                    <li class="nav-link nav-link-underline"><a href="{% url 'about' %}" id="nav-about">About</a></li>
                    <li class="nav-link nav-link-underline"><a href="{% url 'groups' %}" id="nav-groups">Groups</a></li>
                    <li id="search">
                        <form action="{% url 'search' %}" method="POST" id="search-form">
                            <!-- Authentication Token -->
                            {% csrf_token %}
                            <div id="search-box" class="search-box-block">
                                <input id="search-text-id" class="search-text" type="text" name="keywords" placeholder="Search for a recipe">
                                <button type="submit"  class="search-btn fas fa-search"></button>
                            </div>
                        </form>
                    </li>
                    <div id="nav-link-user">
                        {% if user.is_authenticated %}
                        <li id="account" class="nav-item btn-group">
                            <button type="button" class="btn btn-secondary dropdown-toggle" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
                                Hi, {{ user.get_username }}
                            </button>
                            <div class="dropdown-menu dropdown-menu-right">
                                <a class="dropdown-item" href="{% url 'create_recipe' %}">Create a recipe</a>
                                <a class="dropdown-item" href="{% url 'user_profile' username=user.username %}">Profile</a>
                                <!-- <a class="dropdown-item" href="#">Groups</a> -->
```

```
                                <!-- <a class="dropdown-item" href="#">Recipes</a> -->
                                <!-- <a class="dropdown-item" href="#">Favorites</a> -->
                                <!-- redirect to home page after logout -->
                                <a class="dropdown-item" href="{% url 'logout' %}?next=/">Log out</a>
                            </div>
                        </li>
                            <!-- <a class="dropdown-item" href="{% url 'logout' %}?next=/">Log out</a> -->

                        {% else %}
                        <li class="nav-link nav-link-underline"><a href="{% url 'login' %}"  id="nav-login">Log in</a></li>
                        <li class="nav-link nav-link-underline"><a href="{% url 'signup' %}"  id="nav-signup">Sign up</a></li>
                        {% endif %}
                    </div>
                </ul>
            </div>
        </header>


        {% block content %}{% endblock content %}

        <footer id="main-footer">
            <div id="footer-container">
                <div class="container">
                    <div id="footer-logo-content">
                        <div id="footer-logo">
                            <img src="{% static 'home/images/logo_white.png' %}" alt="logo-white">
                        </div>
                        <div id="footer-learn-more" class="footer-content-block">
                            <p class="footer-content-title">Learn More</p>
                            <div class="footer-content-block-line"></div>
                            <ul class="ul-footer-content-block">
                                <li class="li-footer-content-item">
                                    <a class="footer-content-text" href="{% url 'groups' %}">Groups</a>
                                </li>
                                <li class="li-footer-content-item">
                                    <a class="footer-content-text" href="{% url 'search' %}">Recipes</a>
                                </li>
                            </ul>
                        </div>
                        <div id="footer-connect" class="footer-content-block">
                            <p class="footer-content-title">Connect</p>
                            <div class="footer-content-block-line"></div>
                            <ul class="ul-footer-content-block">
                                <li class="li-footer-content-item">
                                    <a class="footer-content-text" href="{% url 'contact_us' %}">Contact us</a>
                                </li>
                                <li class="li-footer-content-item" id="li-footer-content-medias">
                                    <p class="footer-content-text">Follow us</p>
                                    <div id="footer-content-medias">
                                        <a href="#" class="social-icon">
```

```
101                                 <i class="fab fa-facebook-f"></i>
102                                 </a>
103                                 <a href="#" class="social-icon">
104                                     <i class="fab fa-twitter"></i>
105                                 </a>
106                                 <a href="#" class="social-icon">
107                                     <i class="fab fa-google"></i>
108                                 </a>
109                                 <a href="#" class="social-icon">
110                                     <i class="fab fa-linkedin-in"></i>
111                                 </a>
112                                 </div>
113                             </li>
114                             <!-- <li class="li-footer-content-item"  id="li-footer-content-signup">
115                                 <p>Join Us</p>
116                                 <a href="{% url 'signup' %}" id="footer-signup">Sign Up</a>
117                             </li> -->
118                         </ul>
119                     </div>
120                 </div>
121                 <div id="footer-break-line"></div>
122                 <ul id="footer-policy">
123                     <li class="footer-policy-item">
124                         <a href="{% url 'about' %}">About KitchenMagician</a>
125                     </li>
126                     <li class="footer-policy-item footer-policy-item-line">|</li>
127                     <li class="footer-policy-item">
128                         <a href="{% url 'term_of_use' %}">Terms of Service</a>
129                     </li>
130                     <li class="footer-policy-item footer-policy-item-line">|</li>
131                     <li class="footer-policy-item">
132                         <a href="{% url 'privacy_policy' %}">Privacy Statement</a>
133                     </li>
134                 </ul>
135                 <p>&copy; 2020 Kitchen Magician Inc.</p>
136             </div>
137         </div>
138     </footer>
139     <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="anonymous"></script>
140     <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js" integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN" crossorigin="anonymous"
141     <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstrap.min.js" integrity="sha384-w1Q4orYjBQndcko6MimVbzY0tgp4pWB4lZ7lr30WKz0vr/aWKhXdBNmNb5D92v7s" crossorigin="anonymous
142     <script src='https://kit.fontawesome.com/a076d05399.js'></script>
143     {% block script %}{% endblock script %}
144 </body>
145
146 </html>
```

- Code Review Response

JC

Jeff C Cheng
Thu 12/10/2020 1:50 PM
To: Allen Sun

Overall, the code is highly readable.

Some comments about what the code achieves might have been preferrable, i.e.

{% if title %}

…

{% else %}

…

A similar concern is found in the nav-link-user div, i.e. Hi, {{ user.get_username }}.

More specifically, while it is clear to coders who know Django that the former is an optional title, passed as an argument through view, and the latter is default message the user sees, some additional relevant documentation could be of use for understanding and segregating the code.

Independent of readability, spacing seems to be different through the document, sometimes no empty lines in between, sometimes one line, sometimes two lines.

Hope this helps!

JC

Jeff C Cheng
Thu 12/10/2020 3:49 PM
To: Allen Sun

base-commented.html
10 KB

Hi Allen,

I have added some comments to the base.html, renamed as base-commented.html, for your reference.
Overall, your code offers high readability, with consistent layout throughout.
However, as a reader, some coding choices have chosen without explanations being offered.
It might be good to add them to aid understanding.

See comments in base-commented.html.

Sincerely,

Cheng, Jeff

NP

Nicole Leilani Pang
Thu 12/10/2020 2:14 PM
To: Allen Sun

Hello Allen,

I think formatting the document (Shift + Alt + F) would make the code more readable and the document format more consistent. Adding more comments on certain parts of the document will also help other team members understand what the more vital parts of code are doing.

Best,
Nicole Pang

...

NP

Nicole Leilani Pang
Thu 12/10/2020 3:41 PM
To: Allen Sun

base.html
5 KB

Hey Allen,

I forgot to include the file with my comments, so I have attached it to this email.
Thanks again.

Best,
Nicole Pang

...

KO

Kevin Carlos Ortiz
Thu 12/10/2020 3:36 PM
To: Allen Sun

base.html
9 KB

Good afternoon,

I just finished up the code review on your "base.html" file. I added my comments towards the bottom.
I did my best to give you the most honest opinion. I hope my comments help.

Best,

PA

Paul Lane Asu
Thu 12/10/2020 3:55 PM
To: Allen Sun

hello Allen,

I review your base.html code and below are comments.

1. on lines 33, 50 - 53, line 57, and line 114, I think you should remove all the unused lines of code you commented on. this is just to make your code more readable.
2. on lines 10, and 134 - 141, you can break \ or use multiple lines of codes instead of having just one long line,
3. other than that, everything including the formatting looks good to me.

thank you
Paul Asu.

Code Review with comments:

```
1  <!-- overall the content is highly readable with proper indentation - commented by Jeff -->
2  <!-- however, some modifications might be helpful to further readability - commented by Jeff -->
3
4  {% load static %}
5
6  <!DOCTYPE html>
7  <html lang="en">
8      <head>
9          <meta charset="UTF-8" />
10         <meta name="viewport" content="width=device-width, initial-scale=1.0" />
11         <link href="https://fonts.googleapis.com/css2?family=Lato:wght@300&display=swap" rel="stylesheet"/>
12         <link rel="icon" href="{% static 'home/images/icon.png' %}">
13         <!-- you can break \ or use multiple lines of codes instead of having just one long line - commented by Paul -->
14         <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/css/bootstrap.min.css" integrity="sha384-TX8t27EcRE3e/ihU7zmQxVncDAy5uIKz4rEkgIXeMed4M0jlfIDPvg6uqKI2xXr2" cros
15         <link rel="stylesheet" type="text/css" href="{% static 'home/css/base.css' %}" />
16
17         <!-- why do you have an empty block content? maybe some explanation is appropriate - commented by Jeff-->
18         {% block css %}{% endblock css %}
19
20         <!-- while the functionality of the if-else is self-explanatory, where the parameter from which it is passed should probably be noted, i.e. from def base in views.py - commented by Jeff-->
21         {% if title %}
22         <title>Kitchen Magician - {{ title }}</title>
23         {% else %}
24         <title>Kitchen Magician</title>
25         {% endif %}
26     </head>
27
28
29     <body>
30         <header id="header">
31             <div class="container">
32                 <a href="{% url 'home' %}" class="KitchenMagician">
33                     <img src="{% static 'home/images/logo_red.png' %}" alt="logo_red">
34                 </a>
35                 <ul id="ul-nav-link">
36                     <li class="nav-link nav-link-underline"><a href="{% url 'about' %}" id="nav-about">About</a></li>
37                     <li class="nav-link nav-link-underline"><a href="{% url 'groups' %}" id="nav-groups">Groups</a></li>
38                     <li id="search">
39                         <form action="{% url 'search' %}" method="POST" id="search-form">
40                             <!-- Authentication Token -->
41                             {% csrf_token %}
42                             <div id="search-box" class="search-box-block">
43                                 <input id="search-text-id" class="search-text" type="text" name="keywords" placeholder="Search for a recipe">
44                                 <button type="submit"  class="search-btn fas fa-search"></button>
45                             </div>
46                         </form>
47                     </li>
48                     <div id="nav-link-user">
49                         <!-- this is an important section, which has the defaults for users when they log in, and perhaps some relevant comments are appropriate - commented by Jeff-->
50                         <!-- include brief explanation - commented by Nicole -->
```

```
51                  {% if user.is_authenticated %}
52                  <li id="account" class="nav-item btn-group">
53                      <button type="button" class="btn btn-secondary dropdown-toggle" data-toggle="dropdown" aria-haspopup="true" aria-expanded="false">
54                          <!-- include brief explanation - commented by Nicole -->
55                          Hi, {{ user.get_username }}
56                      </button>
57                      <!-- perhaps some comments about why some links are commented out are appropriate - commented by Jeff-->
58                      <div class="dropdown-menu dropdown-menu-right">
59                          <a class="dropdown-item" href="{% url 'create_recipe' %}">Create a recipe</a>
60                          <a class="dropdown-item" href="{% url 'user_profile' username=user.username %}">Profile</a>
61                          <!-- remove all the unused lines of code - commented by Paul -->
62                          <!-- <a class="dropdown-item" href="#">Groups</a> -->
63                          <!-- <a class="dropdown-item" href="#">Recipes</a> -->
64                          <!-- <a class="dropdown-item" href="#">Favorites</a> -->
65                          <!-- redirect to home page after logout -->
66                          <a class="dropdown-item" href="{% url 'logout' %}?next=/">Log out</a>
67                      </div>
68                  </li>
69                      <!-- <a class="dropdown-item" href="{% url 'logout' %}?next=/">Log out</a> -->
70
71                  {% else %}
72                  <li class="nav-link nav-link-underline"><a href="{% url 'login' %}"  id="nav-login">Log in</a></li>
73                  <li class="nav-link nav-link-underline"><a href="{% url 'signup' %}"  id="nav-signup">Sign up</a></li>
74                  {% endif %}
75              </div>
76          </ul>
77      </div>
78  </header>
79
80  <!-- why do you have an empty block content? maybe some explanation is appropriate - commented by Jeff-->
81  {% block content %}{% endblock content %}
82
83  <!-- the footer is very long and complex, maybe some comments and divisions are appropriate - commented by Jeff-->
84  <footer id="main-footer">
85      <div id="footer-container">
86          <div class="container">
87              <div id="footer-logo-content">
88                  <div id="footer-logo">
89                      <img src="{% static 'home/images/logo_white.png' %}" alt="logo-white">
90                  </div>
91                  <div id="footer-learn-more" class="footer-content-block">
92                      <p class="footer-content-title">Learn More</p>
93                      <div class="footer-content-block-line"></div>
94                      <ul class="ul-footer-content-block">
95                          <li class="li-footer-content-item">
96                              <a class="footer-content-text" href="{% url 'groups' %}">Groups</a>
97                          </li>
98                          <li class="li-footer-content-item">
99                              <a class="footer-content-text" href="{% url 'search' %}">Recipes</a>
100                         </li>
```

```
101                     </ul>
102                 </div>
103                 <div id="footer-connect" class="footer-content-block">
104                     <p class="footer-content-title">Connect</p>
105                     <div class="footer-content-block-line"></div>
106                     <ul class="ul-footer-content-block">
107                         <li class="li-footer-content-item">
108                             <a class="footer-content-text" href="{% url 'contact_us' %}">Contact us</a>
109                         </li>
110                         <li class="li-footer-content-item" id="li-footer-content-medias">
111                             <p class="footer-content-text">Follow us</p>
112                             <div id="footer-content-medias">
113                                 <a href="#" class="social-icon">
114                                     <i class="fab fa-facebook-f"></i>
115                                 </a>
116                                 <a href="#" class="social-icon">
117                                     <i class="fab fa-twitter"></i>
118                                 </a>
119                                 <a href="#" class="social-icon">
120                                     <i class="fab fa-google"></i>
121                                 </a>
122                                 <a href="#" class="social-icon">
123                                     <i class="fab fa-linkedin-in"></i>
124                                 </a>
125                             </div>
126                         </li>
127                         <!-- remove all the unused lines of code - commented by Paul -->
128                         <!-- <li class="li-footer-content-item"  id="li-footer-content-signup">
129                             <p>Join Us</p>
130                             <a href="{% url 'signup' %}" id="footer-signup">Sign Up</a>
131                         </li> -->
132                     </ul>
133                 </div>
134             </div>
135             <div id="footer-break-line"></div>
136             <ul id="footer-policy">
137                 <li class="footer-policy-item">
138                     <a href="{% url 'about' %}">About KitchenMagician</a>
139                 </li>
140                 <li class="footer-policy-item footer-policy-item-line">|</li>
141                 <li class="footer-policy-item">
142                     <a href="{% url 'term_of_use' %}">Terms of Service</a>
143                 </li>
144                 <li class="footer-policy-item footer-policy-item-line">|</li>
145                 <li class="footer-policy-item">
146                     <a href="{% url 'privacy_policy' %}">Privacy Statement</a>
147                 </li>
148             </ul>
149             <p>&copy; 2020 Kitchen Magician Inc.</p>
150         </div>
```

```
            </div>
        </footer>
        <!-- you can break \ or use multiple lines of codes instead of having just one long line - commented by Paul -->
        <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js" integrity="sha384-DfXdz2htPH0lsSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj" crossorigin="anonymous"></script>
        <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js" integrity="sha384-9/reFTGAW83EW2RDu2S0VKaIzap3H66lZH81PoYlFhbGU+6BZp6G7niu735Sk7lN" crossorigin="anonymous"
        <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.5.3/dist/js/bootstrap.min.js" integrity="sha384-w1Q4orYjBQndcko6MimVbzY0tgp4pWB4lZ7lr30WKz0vr/aWKhXdBNmNb5D92v7s" crossorigin="anonymous
        <script src='https://kit.fontawesome.com/a076d05399.js'></script>
        {% block script %}{% endblock script %}
    </body>

</html>
<!--
    The code presented showed that the team really used a specific type of style.
    I see that they liked to align each of their <div> and they also used a lot of indentations.
    I did see that they formatted the whole document which made it easier for me to really understand the code.
    One thing though, they needed to add comments. I'm sure they discussed what the code meant amongst each other, but
    I would prefer them to add comments for people who have no idea what this document says.
    Overall, the document has a great coding structure. It is also important to specify the libraries used.
    - commented by Kevin Ortiz
-->
```

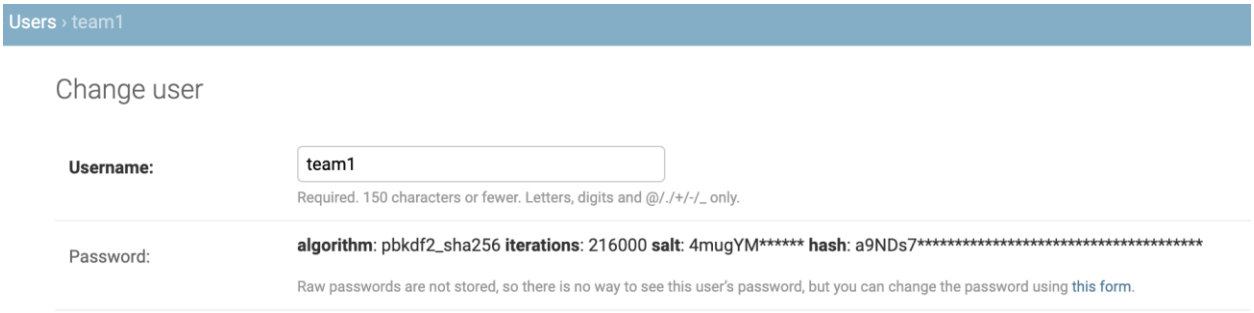
External code review:

Because of my(Team Lead) inability to manage time properly, we got to external code review later in the process of this milestone. Because of that, the two external peer review sources we had planned fell through. We are aware and regretful of this mistake, and will fix it in Version 2. My apologies for the unfinished work.

Section 5: Self-Check for Best Practices

- Major assets:
The user database, the recipe database, the groups database, and the search keywords database.

- Password encryption:
Django provides an API, django.contrib.auth, for authentication systems. One of its model User was applied to this application to encrypt the password.



- User validation.
  - Validate the unique username and email, and confirm the password when users sign up.

```
if User.objects.filter(username=username).exists(): # user already exists
    context['error'] = f'The user {username} already exists.'
elif User.objects.filter(email=email).exists(): #unique email
    context['error'] = f'The email {email} already used.'
elif password1 != password2:
    context['error'] = 'The two password fields didn't match.'
```

  - Authentication check when users log in.

```
# user authentication check
user = authenticate(request, username=username, password=password)
```

Section 6: List of Non-Functional Requirements

System requirements:

1. The application must have one unified system for search, with all fields searchable. DONE
2. Search shall be able to be filtered by username. ISSUE. We removed the username from the filter.
3. Search shall be able to be filtered by recipe keywords. DONE
4. Search shall be able to be filtered by recipe categories. DONE
5. Search shall be able to be filtered by recipe by estimated total preparation time. ISSUE. We removed the username from the filter.
6. Search shall be able to be filtered by recipe ingredients. ISSUE. We removed the username from the filter.
7. The application shall provide the ability to specify multiple operands and operators for a search. DONE
8. The application registration interface must be keyboard accessible. DONE
9. The application registration interface must allow users to tab to the next entry field. DONE
10. The system should be organised in such a way that user errors are minimised. DONE
11. The application system shall have an admin page. DONE
12. The application system shall have a login page. DONE
13. The application system shall have a registration page. DONE
14. The application system shall have a general recipe page. DONE
15. The application system shall have a general community page. DONE
16. The application system shall have a user profile page. DONE
17. The application system shall have an about page. DONE
18. All pages shall have a header on the top. DONE
19. The header shall contain a logo. DONE
20. The header shall contain a search input. DONE
21. All pages shall have a footer on the bottom. DONE
22. The footer shall contain a statement of copyright. DONE
23. The system shall give users the option to print the recipes. ISSUE. Lack of time to implement it.
24. The system shall provide a means of representing external files. DONE
25. The system shall provide a means of accessing external files. DONE
26. The system shall give users the option to download the recipes. ISSUE. Lack of time to implement it.
27. The system shall give users the option to download recipes in pdf format. ISSUE. Lack of time to implement it.

28. The system shall give users the option to download recipes in jpeg format. ISSUE. Lack of time to implement it.
29. When the public user accesses the system, the pages displayed shall be rendered without failing to display the pages consistently across all identified browsers. DONE
30. The user interface of the system shall be compatible with Chrome 85.0.4183.121 and later. DONE
31. The user interface of the system shall be compatible with Safari Mac os X 10.5 and later. DONE
32. The user interface of the system shall be compatible with Firefox 81.0.1 and later. DONE
33. All content shall be displayed error-free, e.g., without conflicts, overlapping, or other performance errors. DONE
34. Each page must have an official logo of the application. DONE
35. The application system shall return to the home page in case of error loading of the page. ISSUE. Lack of time to implement it.

Performance requirements:

1. The system shall be able to handle up to 1000 concurrent users when satisfying all their requirements. DONE
2. The system shall be able to handle up to 2500 concurrent users with browsing capabilities. DONE
3. The system shall display content with the smallest delay possible, and scale to handle dozens of thousands of new users. DONE
4. When a user clicks any links in the navigation bar, the route should take less than 2 seconds. DONE
5. Time it takes for the user profile page to load after login shall be less than 2 seconds. DONE
6. 80% of searches shall return results in less than 3 seconds. DONE
7. Each image shall be loaded within 2 seconds. DONE
8. Any recipe page with video shall be loaded within 3 seconds. ISSUE. Lack of time to implement.
9. Any recipe page without video shall be loaded within 2 seconds. DONE
10. Any community page shall be loaded within 3 seconds. DONE
11. It shall be less than 2 seconds to start to play a video after a user clicks to play it. ISSUE. Lack of time to implement.

Storage requirements

1. URLs must be unique in the repository. DONE
2. The application must allow users to delete all their content (recipes, comments, custom post types), their profiles, and all associated user account information. ISSUE. Only the admin can do it.

3. All config data stored in XML. ISSUE. Lack of time to implement.
4. Data stored in a MySQL database. DONE
5. All components shall leverage existing, central dataset/databases. DONE
6. The admin user shall be about to interact with the database through a web interface. DONE

Security requirements

1. The system shall validate all user input to ensure it does not exceed the size specified for that type of input. DONE
2. The server shall authenticate every request accessing the restricted web pages. DONE
3. The system shall have security controls to protect against denial-of-service attacks. ISSUE. Lack of knowledge to implement it.
4. The system shall encrypt sensitive data entered by users. DONE
5. The system will only accept valid URL requests. DONE
6. The system will apply SOA web service security standards. ISSUE. Lack of knowledge to implement it.
7. The system shall comply with SSE-CMM capability. ISSUE. Lack of knowledge to implement it.
8. The system shall allow users the option to change password. ISSUE. Only the admin can do it. Lack of time to implement it.
9. The system shall give admin access to change users' passwords. DONE
10. Every password shall be hashed. DONE
11. Every password shall be stored in the system database. DONE
12. The password will be case sensitive. DONE
13. System should timeout when there is inactivity for 10 minutes. ISSUE. Lack of time to implement it.
14. The password shall be at least 6 characters. DONE
15. The password must include at least one number. DONE
16. The password must include at least one special character. DONE
17. The system shall allow authenticated users to access the resources of the system. DONE
18. All authentication tokens shall be saved on a local device for comparison and need user permission to gain access. ISSUE. Lack of time to implement it.
19. The system shall ensure the contents of a message are not altered in transit. DONE

Environmental requirements

1. The system shall use an independent Python virtual environment. DONE
2. The system shall use pip3 to install packages in the virtual environment. DONE
3. The virtual environment shall include all necessary packages compatible with the operating system Ubuntu 20.04 LTS. DONE

4. The system shall have a file named requirements.txt to store all packages installed in the virtual environment. DONE
5. The server Apache shall connect to the virtual environment in the master branch. DONE
6. The server Apache shall use the correct path of the virtual environment. DONE
7. The system shall have a Django development environment up and running on local computers for testing. DONE
8. The system shall have a Django development environment up and running on local computers for development. DONE
9. The system shall use the default port, the internal IP at port 8000, for local testing. DONE
10. The system shall use the default port, the internal IP at port 8000, for local development. DONE
11. The system shall use the default port, the internal IP at port 8080, for global testing. DONE
12. The system shall use the default port, the internal IP at port 8080, for global development. DONE
13. The system shall use the port 443 for SSL certification. DONE

Legal requirements

1. Users shall agree to the privacy agreement when registering for an account. DONE
2. The application shall display a copyright notice visible to users at all time. DONE
3. The application shall display the Kitchen Magician policies for users to read and agreed to comply with in accordance with state and federal law. DONE
4. The application shall display the licensing agreements relating to intellectual property rights. DONE
5. Users shall agree to the code of conduct when registering an account. DONE
6. Personalization and data collection processes should comply with the General Data Protection Regulation (GDPR). DONE
7. The website contains links to other websites and it cannot be responsible for the privacy practises of content of other websites. DONE
8. Users shall not use any recipe from the application for commercial purposes without permission from the admin. DONE
9. Users shall comply with business rules and administrative functions as provided by admin. DONE
10. Users shall not use any video from the application for commercial purposes without permission from the admin. DONE
11. Users shall not use any application content for commercial purposes without permission from the admin. DONE

Marketing requirements

1. All commercials shall go through the approval process before posting on the application. ISSUE. Lack of time to implement it.
2. Pages shall contain sponsored commercial approved by the admin. ISSUE. Lack of time to implement it.
3. Pages shall contain sponsored advertisements approved by the admin. ISSUE. Lack of time to implement it.
4. When referencing KitchenMagician in text as a combined word, use camel case, with no space between “Kitchen” and “Magician”. DONE
5. All commercials on the application shall use corporate style guide colors. ISSUE. Lack of time to implement commercials.
6. All advertisements on the application shall use font size approved by the admin. ISSUE. Lack of time to implement advertisements.
7. All customer facing web pages will use the corporate style guide colors, fonts and corporate approved logos. DONE

Content requirements

1. All pages and files must be current and accurate. DONE
2. The system shall support the appearance of a component being determined by the type of page on which the component appears. DONE
3. The system shall support the appearance of a component being determined by the location on the page on which the component appears. DONE
4. The system shall support the appearance of a component being determined by the content of the component. DONE
5. The system shall support the appearance of a component being determined by the type of the component. DONE
6. The system shall be able to accommodate any image types, and images must be publishable. DONE
7. The system shall be able to accommodate any image types. DONE
8. The application shall always display the logo at a size that is clear and legible. DONE
9. To ensure legibility of KitchenMagician branding, the system shall use the logos with appropriate sizes and not smaller than 24px. DONE
10. Images in the system shall be browsable. DONE
11. Images shall include alt text. ISSUE. We missed to follow this rule.
12. Image size shall not exceed 2 Mbytes. DONE
13. Videos shall be captioned and may also include a transcript. ISSUE. Lack of time to implement it.
14. Videos shall stop when users leave the content view. ISSUE. Lack of time to implement it.
15. Audios shall stop when users leave the content view. ISSUE. Lack of time to implement it.

16. All audios shall display with user-controlled captioning. ISSUE. Lack of time to implement it.
17. All videos shall display with user-controlled captioning. ISSUE. Lack of time to implement it.
18. The application shall ensure audio and video accessible. ISSUE. Lack of time to implement it.
19. The date format for recipes shall be as follows: Month Day, Year. DONE
20. The date format for comments shall be as follows: Month Day, Year. DONE

Privacy requirements

1. The system shall protect user information in accordance to the federal government's Privacy Act. DONE
2. The system shall comply with California Consumer Privacy Act. DONE
3. The system shall comply with California Online Privacy Protection Act 2003 (CalOPPA). DONE
4. Users shall agree to the privacy agreement when registering for an account. DONE
5. Users shall agree to the code of conduct when registering for an account. DONE
6. The company is not responsible for images, videos, or any resources posted by users without permission of the copyright holder. DONE
7. The application collects anonymous data from every visitor of the Website to monitor traffic and fix bugs. DONE
8. The application collects log information including a user's Internet Protocol address, browser type, browser language, the date and time of a user's query and one or more cookies that may uniquely identify a user's browser or downloaded software.DONE
9. The application must support authorized users to be able to access, update or delete any comments, receipts, or users. DONE
10. The application will collect usernames only if users agree to comply with the company's policy. DONE
11. The application will collect users' emails only if users agree to comply with the company's policy. DONE
12. The application will collect users' addresses only if users agree to comply with the company's policy. DONE
13. The application will collect users' birthdays only if users agree to comply with the company's policy. DONE
14. The application will collect information on users' search history, favorited, and viewed recipes. DONE
15. The application shall not share personal information with any third parties.DONE
16. The application uses all of the information users provide voluntarily in order to make users' visits on the application possible. DONE

17. The application collects information only to add customized elements to the application or to plan its content more appropriately, based on user interests. DONE
18. The application will allow users to delete their own accounts via emailing the requests. ISSUE. Lack of time to implement it.

Testing requirements

1. The application shall be tested during deployment to verify that it functions as intended and that all requirements are met. DONE
2. The application shall be tested before deployment to verify that it functions as intended and that all requirements are met. DONE
3. The application shall be tested after deployment to verify that it functions as intended and that all requirements are met. DONE
4. Prior to launch, the applications shall be placed in a testing environment. DONE

Coding Standards

- **File encoding**
    1. All documentation source files must be in UTF-8 encoding. ISSUE. We missed to follow this rule.
    2. All documentation source files shall allow special characters. DONE
- **English Syntax**
    1. The application must use proper spelling. DONE
    2. The application must use proper grammar. DONE
    3. The application must use proper punctuation. DONE
- **Indentation**
    1. There must be a space after giving a comma between two function arguments. ISSUE. We missed to follow this rule.
    2. Each nested block should be properly indented and spaced. ISSUE. We missed to follow this rule.
    3. Proper Indentation should be there at the beginning and at the end of each block in the program. ISSUE. We missed to follow this rule.
    4. All braces should start from a new line and the code following the end of braces also starts from a new line. ISSUE. We missed to follow this rule.
- **Coding style**
    1. Avoid using a coding style that is too difficult to understand. DONE
    2. Code should be easily understandable. ISSUE. Most of them are easily understandable.
    3. Code should be well documented. ISSUE. We missed to follow this rule.
    4. The code should be properly commented for understanding easily. ISSUE. Most codes have proper comments.

5. Comments regarding the statements increase the understandability of the code. DONE
6. Length of functions should not be very large. DONE
7. Functions should be small enough to carry out small work. DONE
8. Lengthy functions should be broken into small ones for completing small tasks. ISSUE. We missed to follow this rule.
9. Length of methods should not be very large. DONE
10. Methods should be small enough to carry out small work. DONE

- **Frontend**
  1. All JavaScript code should follow the Google JavaScript Style Guide. DONE
  2. All HTML and CSS code should follow the Google HTML/CSS Style Guide. ISSUE. Lack of time to refactor the application.
  3. The headline on the home page should only take up one line of text, less than 50 characters. DONE
  4. The size of the headline on the home page should be smaller than 200px. DONE
  5. The application must ensure that styles and naming for interactive elements are used consistently. DONE
  6. The application provides sufficient contrast between foreground and background. DONR
  7. The application provides informative, unique page titles. DONE
  8. The application uses headings to convey meaning and structure. DONE
  9. The application makes link text meaningful. DONE
  10. The application writes meaningful text alternatives for images. DONE
  11. The application creates transcripts and captions for multimedia. ISSUE. Lack of time to implement it.
  12. The application provides clear instructions. DONE
  13. The application must keep content clear and concise. DONE
  14. The application must ensure that interactive elements are easy to identify. DONE
  15. The application provides clear and consistent navigation options. DONE
  16. The application ensures that form elements include clearly associated labels. DONE
  17. The application provides easily identifiable feedback. ISSUE. Lack of time to implement it.
  18. The application uses headings and spacing to group related content. DONE
  19. The application style uses rem for font-size. ISSUE. Team members use different styles.
  20. The application style uses em for padding and margin. ISSUE. Team members use different styles.

21. The application style uses em or percentage for widths. ISSUE. Team members use different styles.
22. The application does not use all caps. DONE
23. The style of headlines of commentis shall be bolder. DONE
24. The max length of comment is 65,535 characters. DONE

- **Backend**
    1. All Python code should follow a derivation of PEP-8 style guidelines. ISSUE. Team members use different styles.
    2. Whitespace rules and other rules are relaxed (for example, it is not necessary to put two newlines between classes, though that's just fine if you do). DONE.
    3. Single-line imports DONE
       Do this:
       import os
       import sys
       Do **not** do this:
       import os, sys
    4. Import Order: Imports should be ordered by their origin. Names should be imported in this order: DONE
       i. Python standard library
       ii. Third party packages
       iii. Other modules from the current package
    5. Wildcard Imports:
       i. Do not import all the names from a package (in other words, never use from package import *) DONE
       ii. Import just the ones that are needed. DONE
       iii. Single-line imports apply here as well: each name from the other package should be imported on its own line. DONE
    6. Naming conventions for local variables, global variables, constants and functions:
       i. Local variables and global variables should be named using lower case lettering and underscore between words (e.g. local_data. Constant names should be formed using capital letters only (e.g. CONSDATA). DONE
       ii. It is better to avoid the use of digits in variable names. DONE
       iii. The names of the function should be written using lower case lettering and underscore between words. DONE
       iv. The name of the function must describe the reason for using the function clearly and briefly. DONE
       v. The names of the function should be written using lower case lettering and underscore between words. DONE
       vi. The name of the function must describe the reason for using the function clearly and briefly. DONE

vii. Class names should normally use the CapWords convention. DONE

7. All MySQL code should follow the MySQL Coding Guidelines. DONE

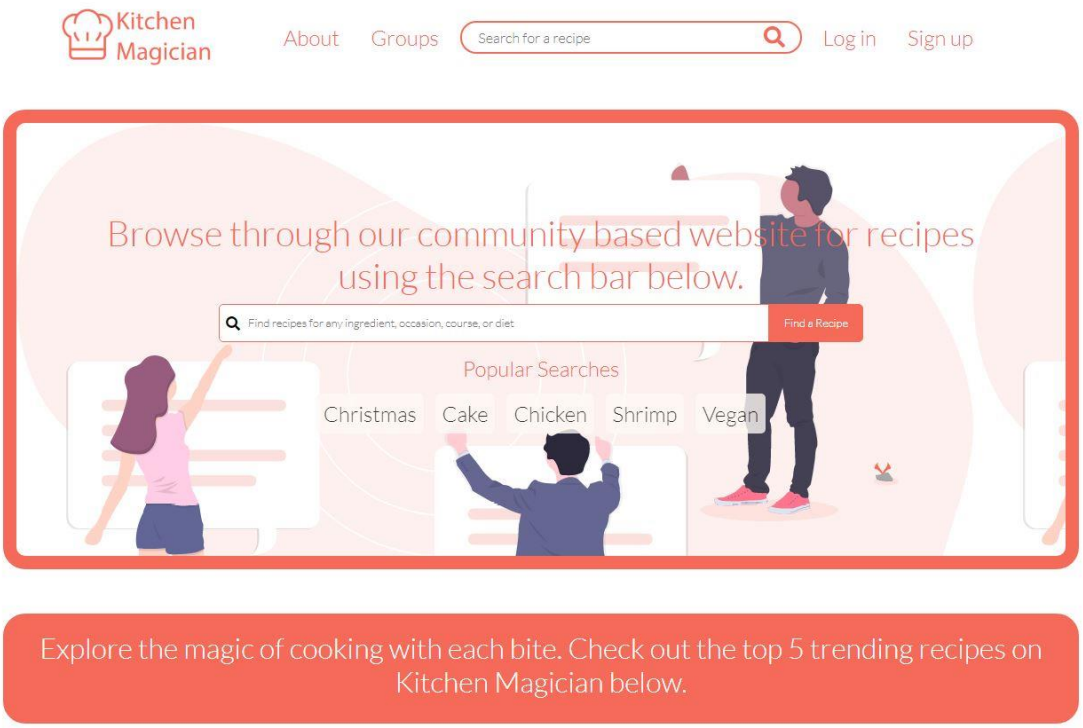
Section 7: List of Contributions

1. Kevin Wei:
    a. Assigned tasks to team members, wrote product summary, did 2 usability test plans and 2 QA test plans, gave feedback on team members work, updated groups page, attended meetings
2. Jeff Cheng:
    a. Styled the home page, created usability plan and QA test plan for recipe creation, reformatted usability test plan section for consistency between subsections, reviewed and commented on code snippets for Allen and Kevin Wei, attended meetings
3. Allen Sun:
    a. Helped with QA test plan, did section 4 internal code review, worked on section 5 and section 6, back end of groups functions, Privacy policy and User terms pages, attended meetings
4. Paul Asu:
    a. Attended meetings
5. Kevin Ortiz:
    a. Did one Usability and one QA test plan, further home page implementation with Jeff and Nicole, attended meetings
6. Nicole Pang:
    a. Did one Usability and one QA test plan, reviewed and revised everyone else's Usability and QA test plans, formatted document, further home page implementation with Jeff and Kevin O, attended meetings

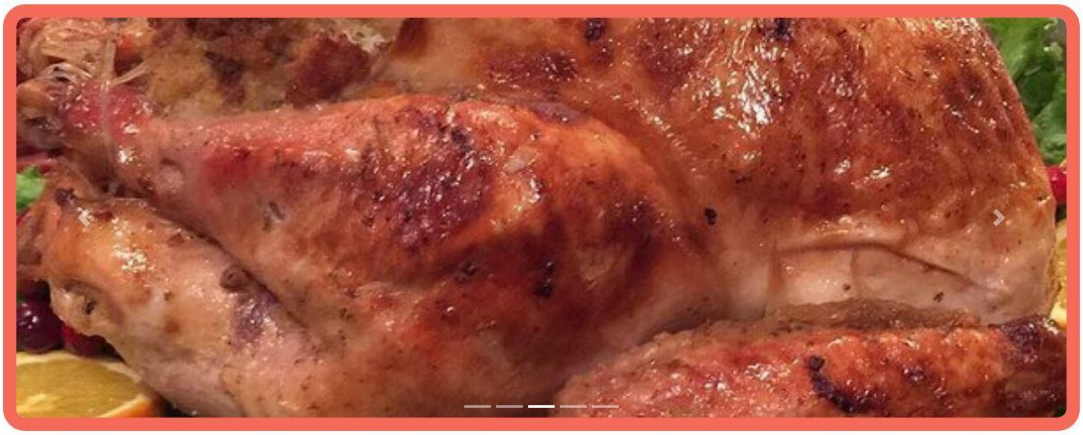
Section 3: Final Product

Product Screenshots:

Home Page:



Explore the magic of cooking with each bite. Check out the top 5 trending recipes on Kitchen Magician below.



Recipes by Occasion

Find the perfect recipe for any occasion. Check out the top 4 occasions.

Christmas

Super Bowl

Thanksgiving

New Year's

Recipes by Course

Find the perfect recipe for any course.Check out the top 4 courses.

Main Dishes

Disserts

Sandwiches

Breakfast/Brunch

Popular Groups

Find the perfect diet group for sharing ideas and interests.

View all groups

Paleo Group

Low Carb Group

Keto Group

Vegan Group

Kitchen Magician

Learn More Groups Recipes

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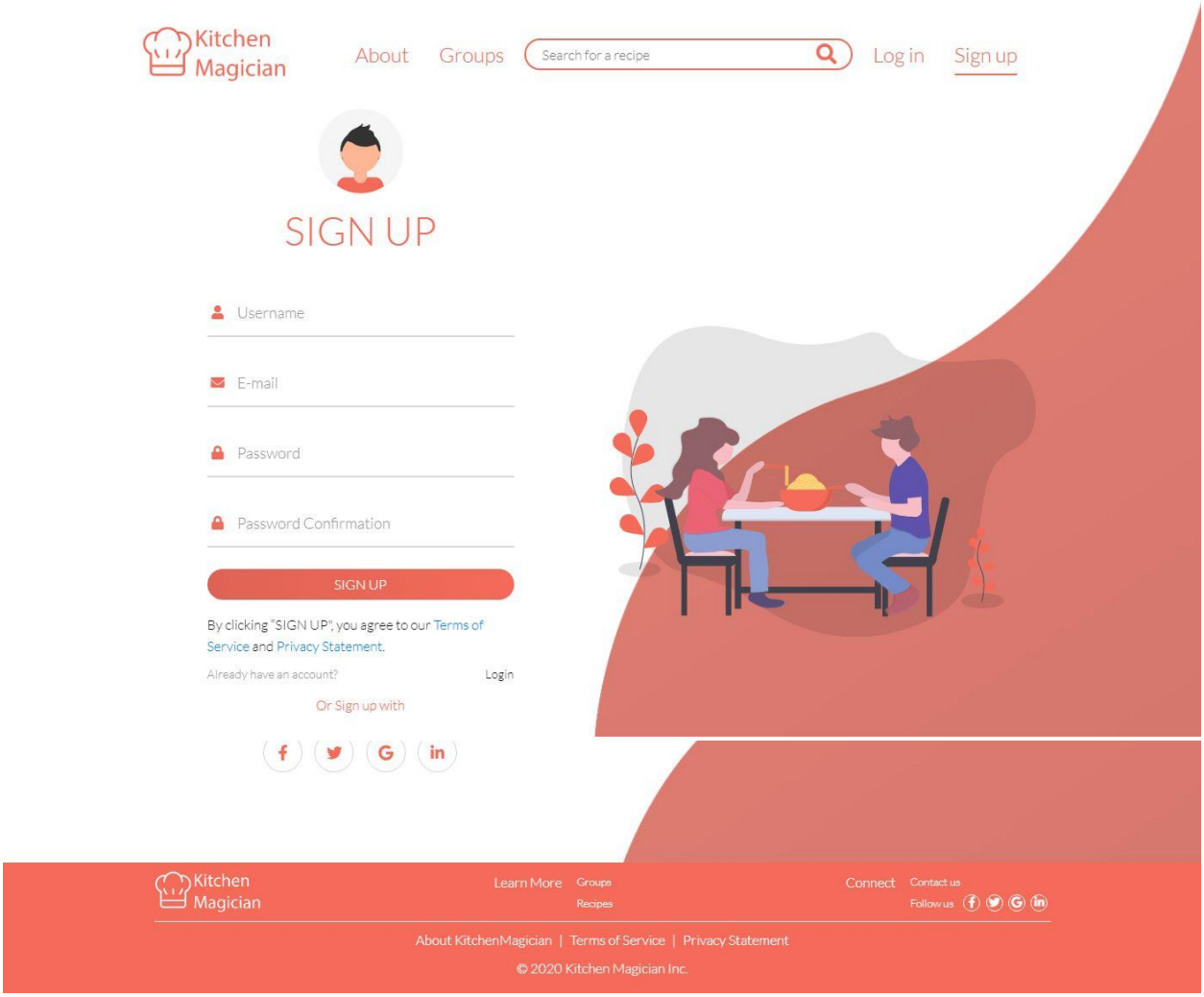
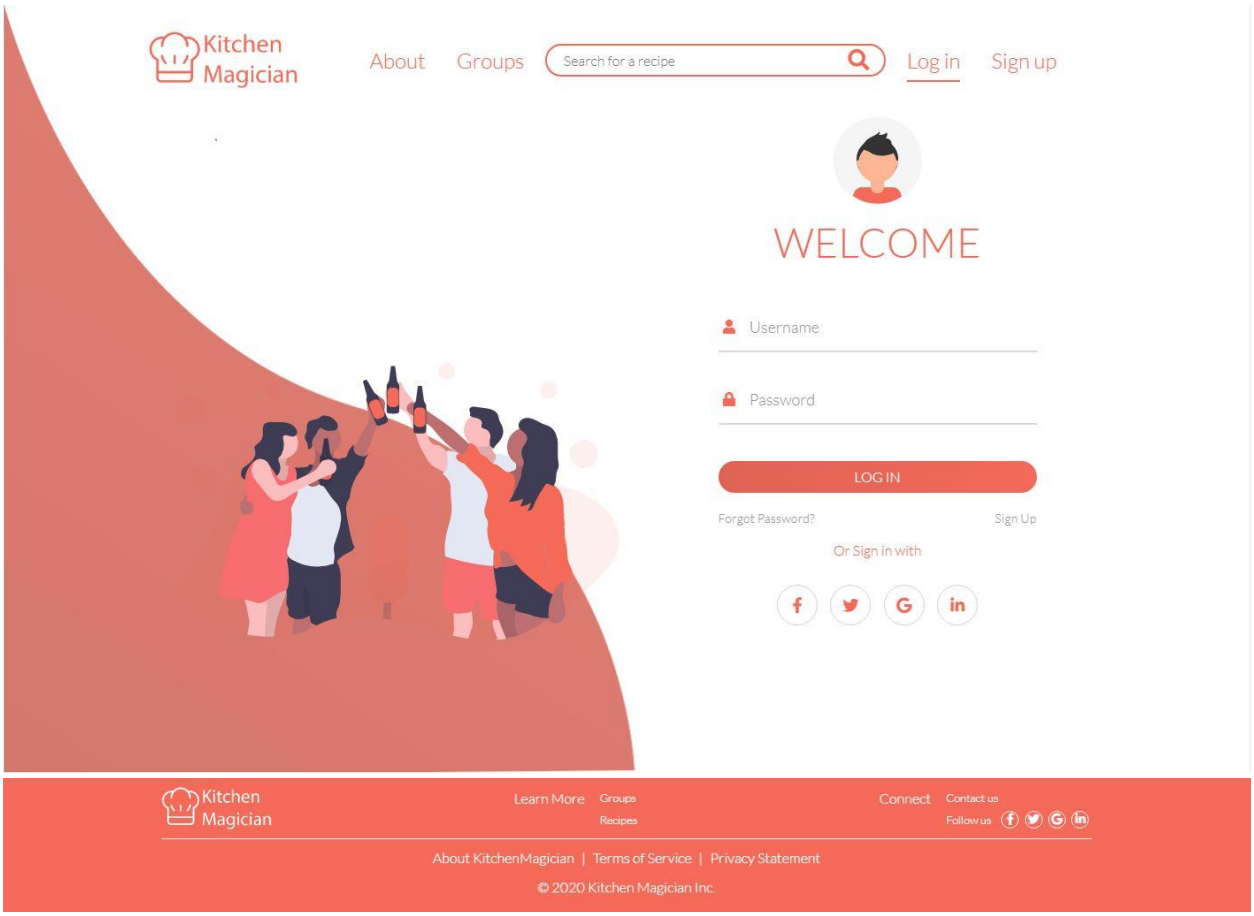
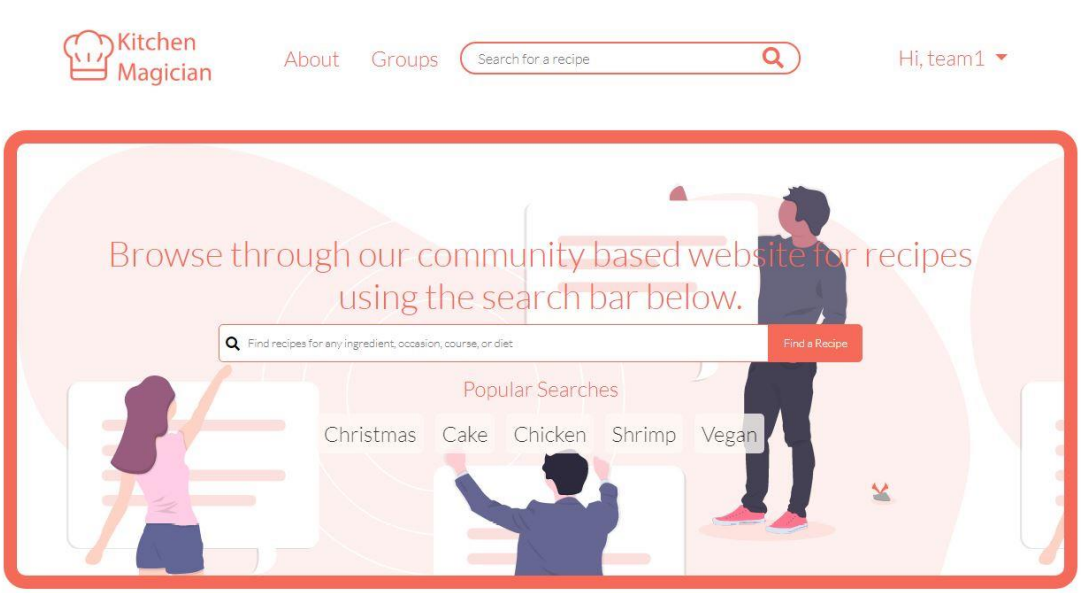
Sign Up Page:



Login Page:



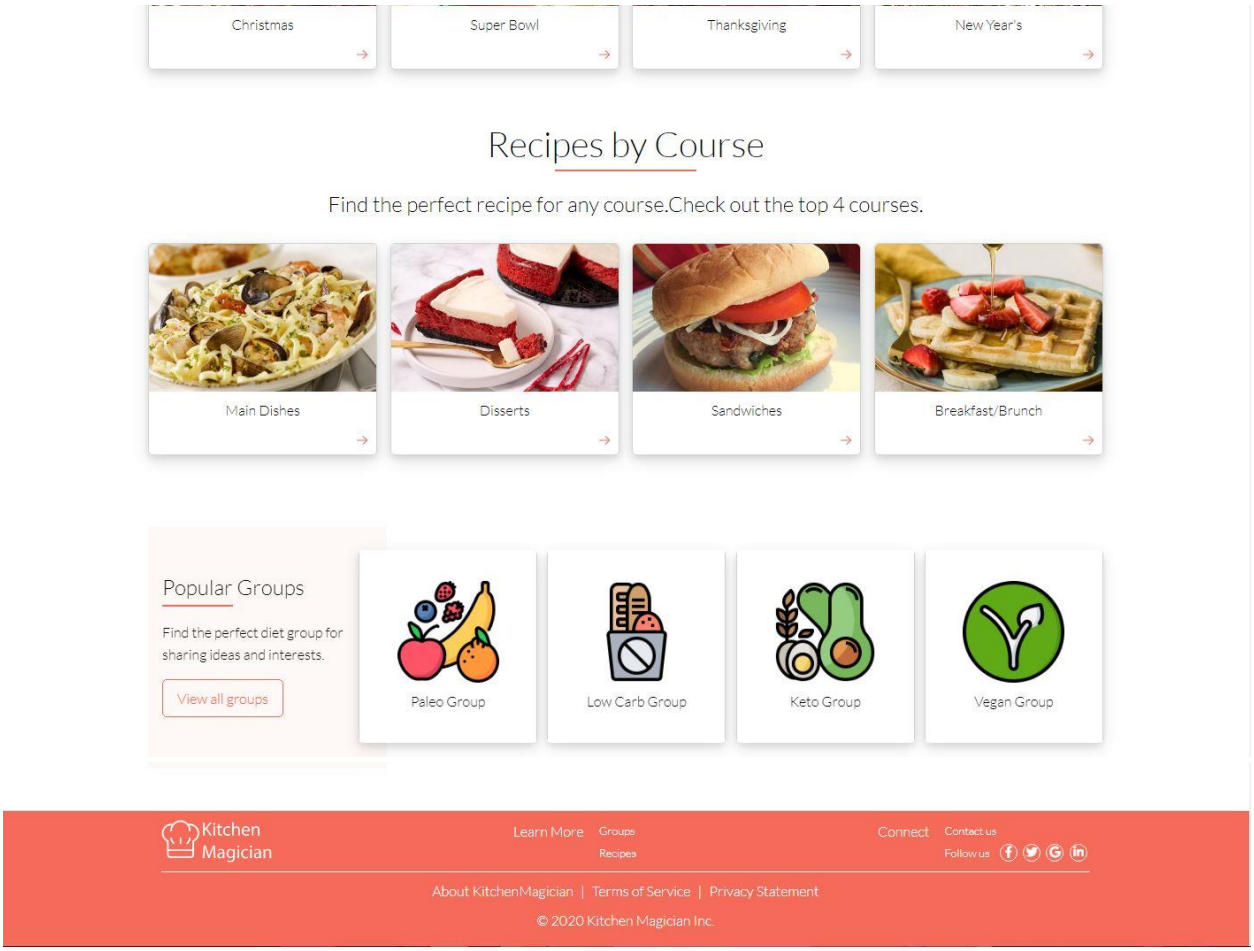
Home Page (Logged In):



Explore the magic of cooking with each bite. Check out the top 5 trending recipes on Kitchen Magician below.

Recipes by Occasion

Find the perfect recipe for any occasion. Check out the top 4 occasions.


Christmas
Super Bowl
Thanksgiving
New Year's
Recipes by Course
Find the perfect recipe for any course.Check out the top 4 courses.
Main Dishes
Disserts
Sandwiches
Breakfast/Brunch
Popular Groups
Find the perfect diet group for sharing ideas and interests.
View all groups
Paleo Group
Low Carb Group
Keto Group
Vegan Group
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Learn More
Groups
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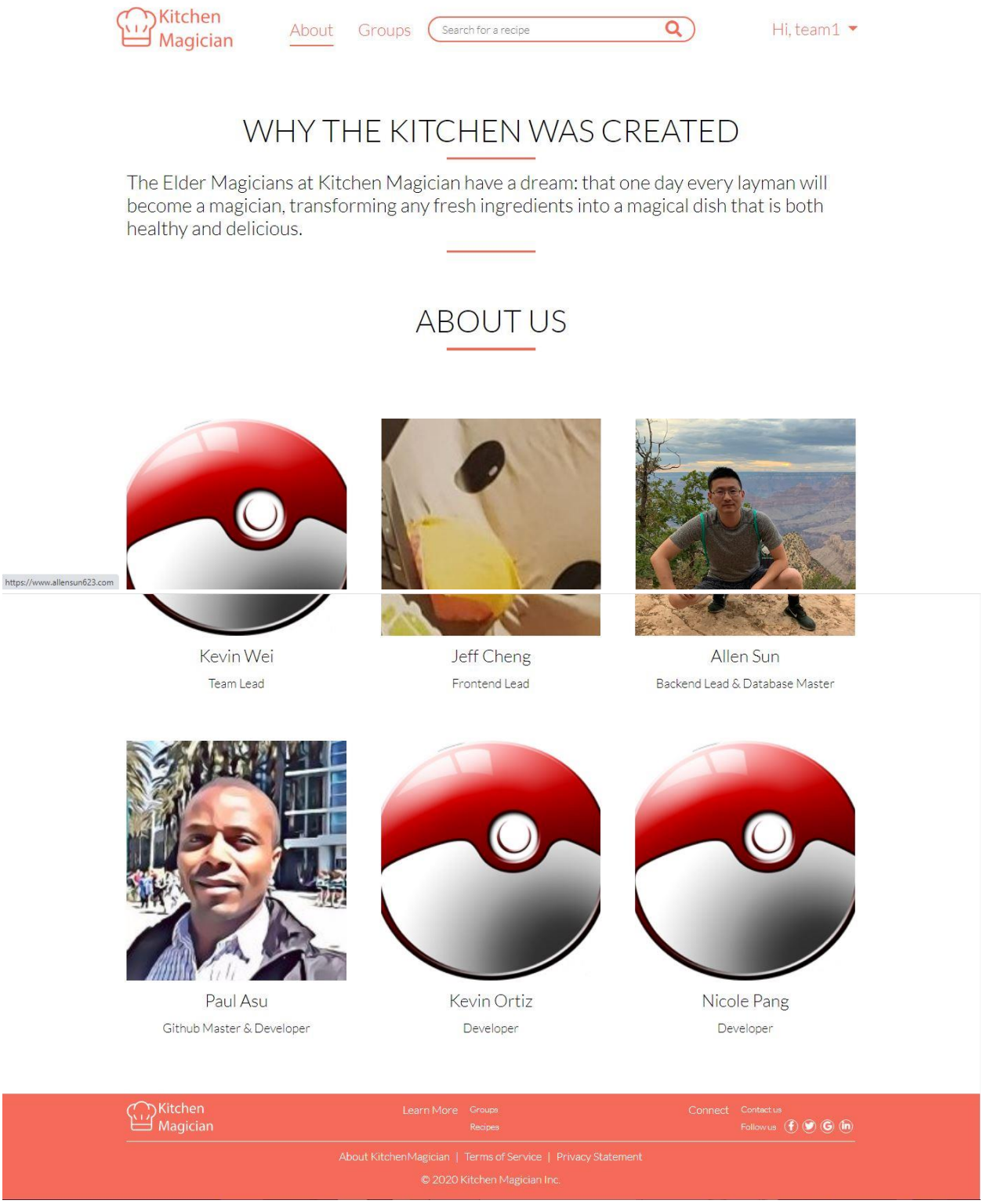
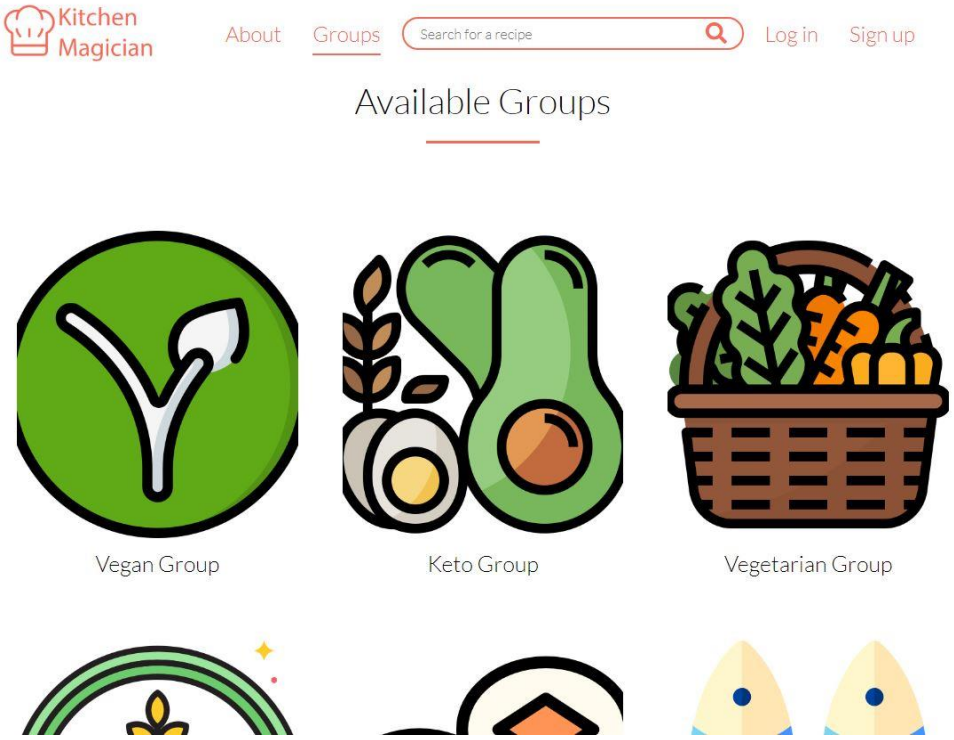
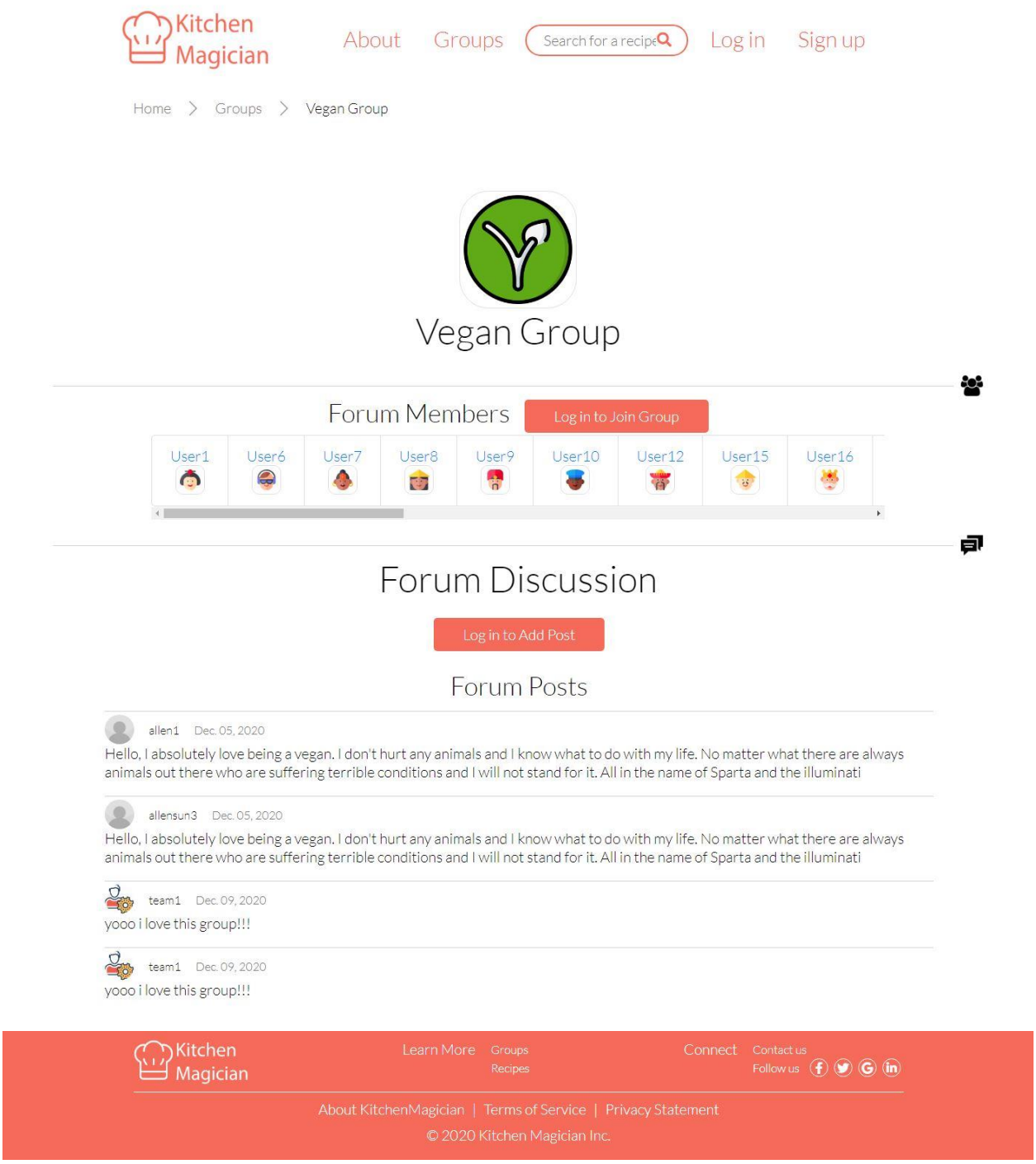
About Page:



Groups Page:


Kitchen Magician
About
Groups
Search for a recipe
Log in
Sign up
Available Groups
Vegan Group
Keto Group
Vegetarian Group

Group Form Page:



Search/Results Page:

Kitchen Magician

About Groups Search for a recipe Hi, team1

Find recipes for any ingredient, occasion, course, or diet

Find a Recipe

Popular search: christmas cake chicken shrimp vegan

13 recipes match ""

Courses
- Desserts
- Breakfast/Brunch
- Sandwiches
- Main Dishes
- Appetizers

Diets
- Vegan
- Keto
- Gluten Free
- Others
- Vegetarian

Occasions
- Christmas
- Father's Day
- Father's Day
- Independence Day
- Labor Day
- Memorial Day
- Mother's Day
- New Year's
- Thanksgiving
- Easter
- Halloween
- Martin Luther King Day
- Super Bowl
- Valentine's Day

Vegan Banana Muffins

TIME: Prep: 00-15 min; Cook: 2-4 hours

MAKES: 10 servings

DIET: Vegan

Keto Chicken Parmesan

TIME: Prep: 15-30 min; Cook: 00-15 min

MAKES: 2 servings

DIET: Keto

Delicious Gluten-Free Pancakes

TIME: Prep: 15-30 min; Cook: 00-15 min

MAKES: 4 servings

DIET: Gluten Free

DIET: Gluten Free

The Best Buttermilk Pancakes

TIME: Prep: 15-30 min; Cook: 00-15 min

MAKES: 4 servings

DIET: Gluten Free

Spicy Chipotle Turkey Burgers

TIME: Prep: 15-30 min; Cook: 00-15 min

MAKES: 1 servings

DIET: Others

Homestyle Turkey, the Michigander Way

TIME: Prep: 00-15 min; Cook: 4+ hours

MAKES: 10 servings

DIET: Others

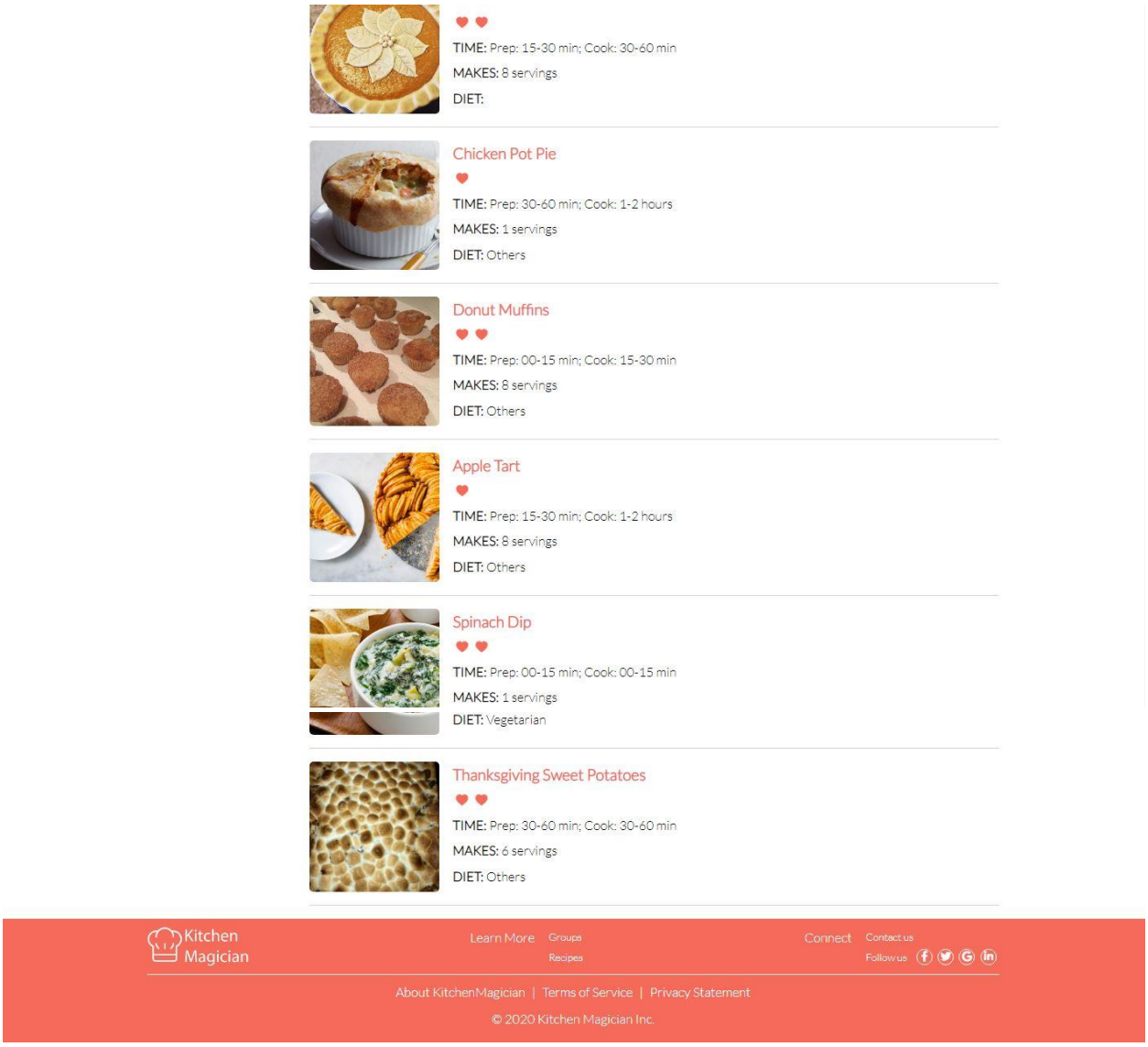
Perfect Turkey

TIME: Prep: 15-30 min; Cook: 4+ hours

MAKES: 10 servings

DIET: Others

Sweet Potato Pie II



Create a Recipe Page:

Kitchen Magician

About Groups Search for a recipe Hi, team1

Create A Recipe

*RECIPE TITLE

Give your recipe a name

*TELL US ABOUT YOUR RECIPE

What do you love about this recipe? Why is special for you? Give us all the details!

*INGREDIENTS

Please add each ingredient on its own line with an enter or return

*INSTRUCTION

Please add each step on its own paragraph with an enter or return. E.g.
Place squash in a Dutch oven or large saucepan; cover with water.
Bring to a boil; cover and cook until tender, 25-30 minutes. Drain and place in a large bowl; beat just until smooth.
Beat in the milk, butter, eggs and vanilla. Combine the dry ingredients; gradually add to squash mixture and mix well.

*SHARE A PHOTO OF YOUR

RECIPE

UPLOAD IMAGE

SHARE A VIDEO OF YOUR RECIPE

Please add the video link here if you have one.

PREPARATION TIME: 00-15 min

COOKING TIME: 00-15 min

*CHOOSE YOUR RECIPE'S COURSE: Appetizers

QUANTITY SERVED: 1

*CHOOSE A HOLIDAY FOR YOUR RECIPE *(select all that apply)*

- ☐ Chinese New Year
- ☐ Christmas
- ☐ Diwali
- ☐ Easter
- ☐ Father's Day
- ☐ Halloween
- ☐ Hanukkah
- ☐ Independence Day
- ☐ Labor Day
- ☐ Martin Luther King Day
- ☐ Memorial Day
- ☐ Mother's Day
- ☐ New Year's
- ☐ Patriotic
- ☐ St. Patrick's
- ☐ Super Bowl
- ☐ Thanksgiving
- ☐ Valentine's Day
- ☐ Others

*CHOOSE A DIET FOR YOUR RECIPE *(select all that apply)*

- ☐ Vegan
- ☐ Keto
- ☐ Vegetarian
- ☐ Gluten Free
- ☐ Pescatarian
- ☐ Paleo
- ☐ Low Carb
- ☐ Raw
- ☐ Others

NOTE: Photos may be used in print publications or on the website. Please submit a high resolution jpg image at 300dpi. Uploaded files are limited to a max file size of 15 mb.

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☐ I agree to the above and confirm this recipe is original to me.

Submit | Cancel

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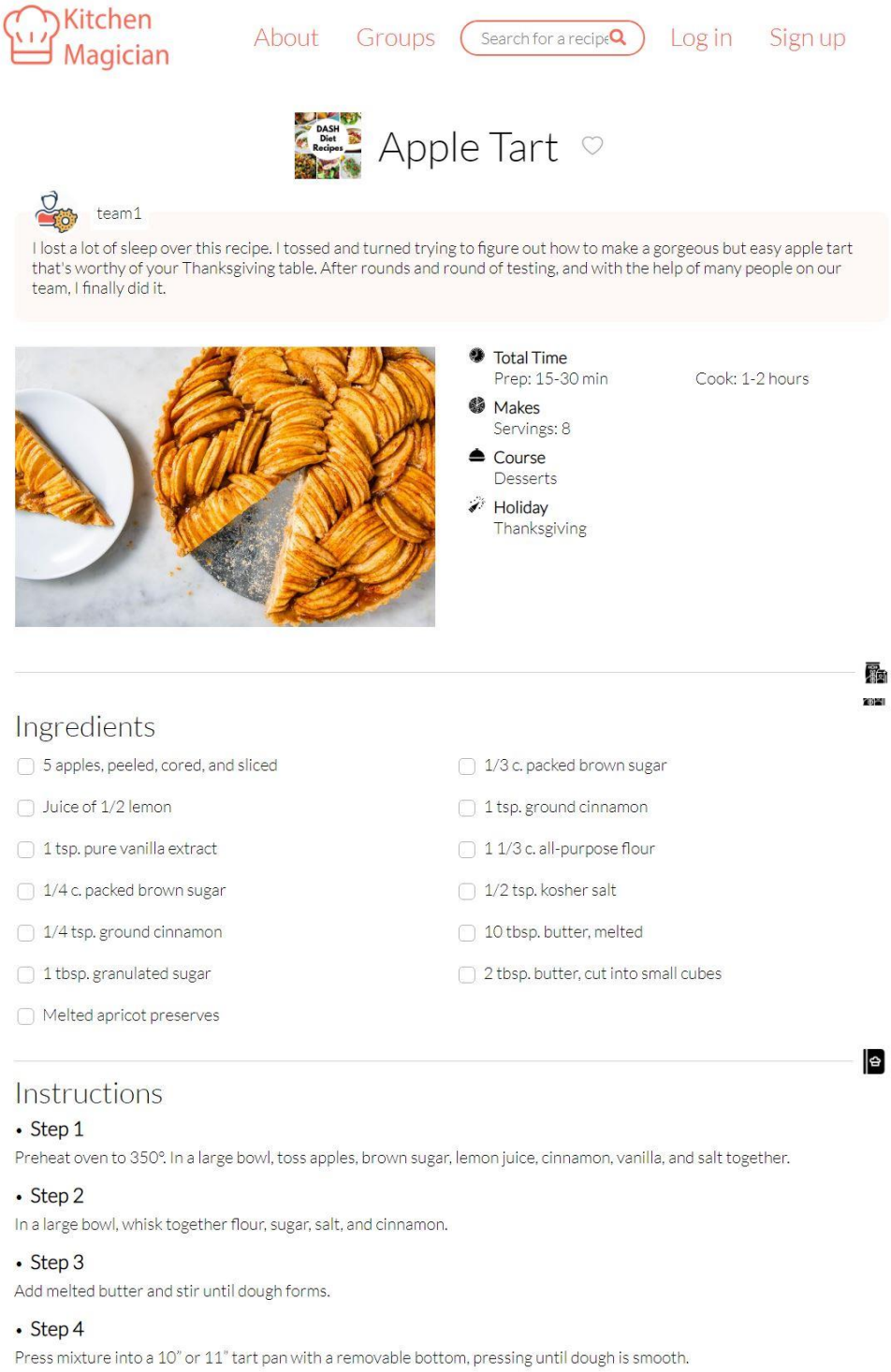
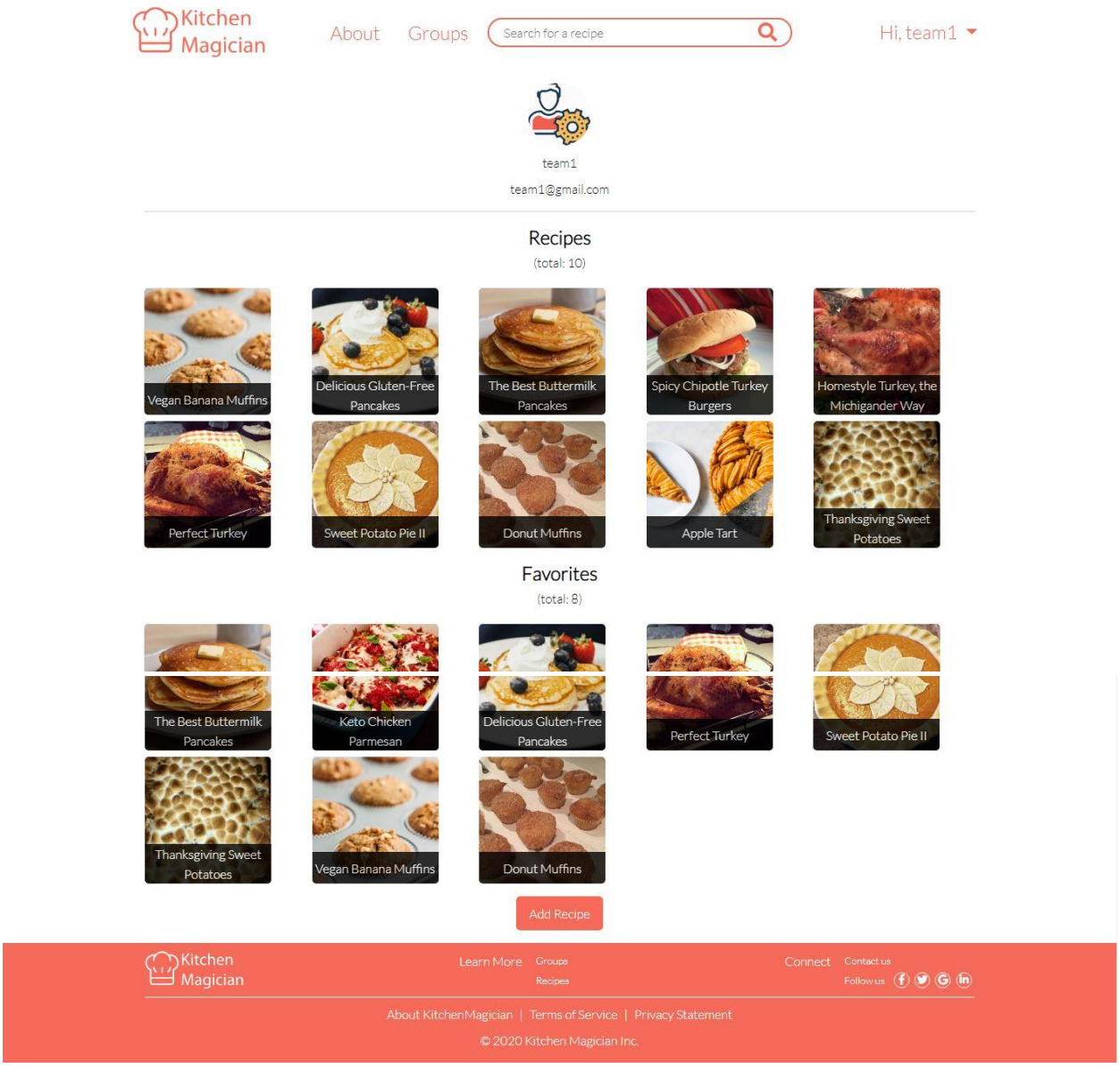
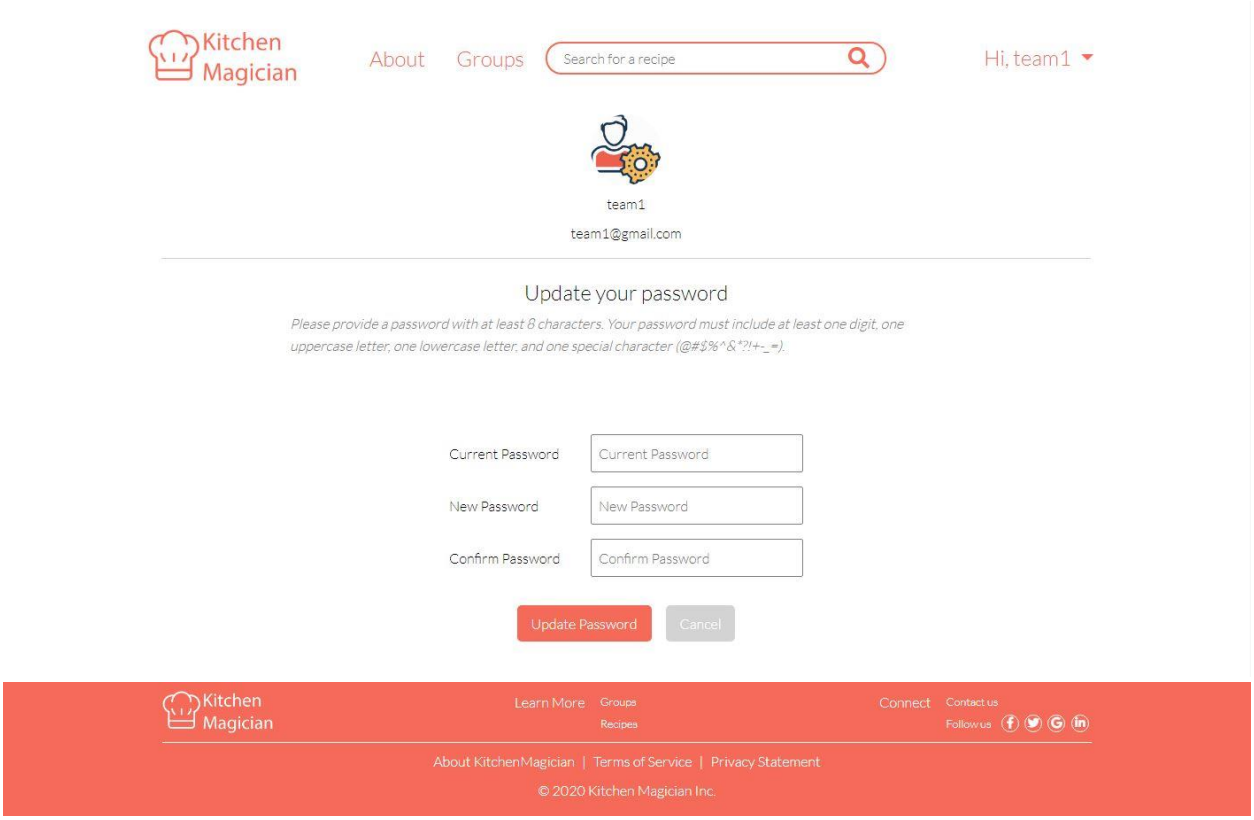
Recipe Page:



Profile Page:



Settings Page:



Term of Use Page:

Term of Use

We reserve the right in our sole discretion to change, modify, add or delete portions of these Terms of Use at any time. We will provide notice of such changes only by posting the updated notice on our Website and changing the "last updated" date listed below. Your continued use of or access of this Website following the posting of its changes or modifications will constitute your acceptance of such changes or modifications. Therefore, you should frequently review the Terms of Use and applicable policies from time to time to understand the terms and conditions that apply to your use of the Website. If you do not agree to the amended terms, you must stop using the Website. We encourage you to review our Terms of Use each time you visit our Website to see if it has been updated since your last visit.

Eligibility

This Website is intended solely for users who are 13 years of age or older, and any use of or access to the Website by anyone under 13 is unauthorized, unlicensed and in violation of these Terms of Use. By using the Website, you represent and warrant that you are 13 or older and that you agree to abide by all of these terms and conditions.

Privacy Policy

Users of this Website should refer to Company's Privacy Policy, available for viewing here, before providing any information to find out how Company collects, uses and discloses personal information from its users.

User Conduct and Materials

This Website may include discussion forums or other interactive areas, including, but not limited to, bulletin boards, chat rooms, forums and recipe storage and exchange areas (the "Interactive Areas"). All such Interactive Areas shall be used only for non-commercial purposes. You are solely liable for any material you upload or transmit to, and your use of, such Interactive Areas of this Website. You agree not to do any of the following on or through the Website:

- Upload, post, email, transmit, distribute or otherwise publish or make available any recipe, message, information, text, image, photo or other material ("User

any unsolicited or unauthorized promotions, commercial messages, advertising or solicitations for funds, goods or services, including junk mail, spam, chain letters and using our Email-a-Friend service to send any unwanted messages;

- Harm minors in any way;
- Upload, post, email, transmit, distribute or otherwise publish or make available any Material that contains software viruses or any other computer code, files or programs designed to interrupt, destroy or limit the functionality of any computer software or hardware or telecommunications equipment;
- Upload, post, email, transmit, distribute or otherwise publish, make available or disclose the private or personal information of any third party; or
- Upload, post, email, transmit, distribute or otherwise publish or make available any User Material that, in the sole judgment of Company, is objectionable or which restricts or inhibits any other person from using or enjoying the Interactive Areas or the Website, or which may expose Company or its users to any harm or liability of any type.

Company takes no responsibility and assumes no liability for any User Material posted, stored or uploaded by you or any third party, or for any loss or damage

Material") that we deem to be unlawful, harmful, libelous, tortious, defamatory, obscene, vulgar, pornographic, indecent, lewd, harassing, threatening, invasive of privacy or publicity rights, abusive, inflammatory, hateful, or racially, ethnically or otherwise objectionable;
understand you and your preferences for purposes such as to enhance your experience and enjoyment using the Service, and our other products and services;

- Upload, post, email, transmit, distribute or otherwise publish or make available any User Material that would constitute or encourage a criminal offense, violate the rights of any party, or that would otherwise create liability or violate any local, state, national or international law, including, without limitation, the regulations of the U.S. Securities and Exchange Commission, any rules of any securities exchange such as the New York Stock Exchange, the American Stock Exchange, or the NASDAQ;
- Impersonate any person or entity or otherwise misrepresent your affiliation with a person or entity;
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Privacy Policy Page:

Privacy Policy

Last updated: December 1, 2020.

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- link or combine it with other personal information we get offline and/or from third parties, for purposes such as to help understand your needs, provide you with better service, and determine whether marketing offers from third parties would be of interest to you; and
- investigate and take action against fraudulent or illegal activity or improper conduct and otherwise protect us and our users.

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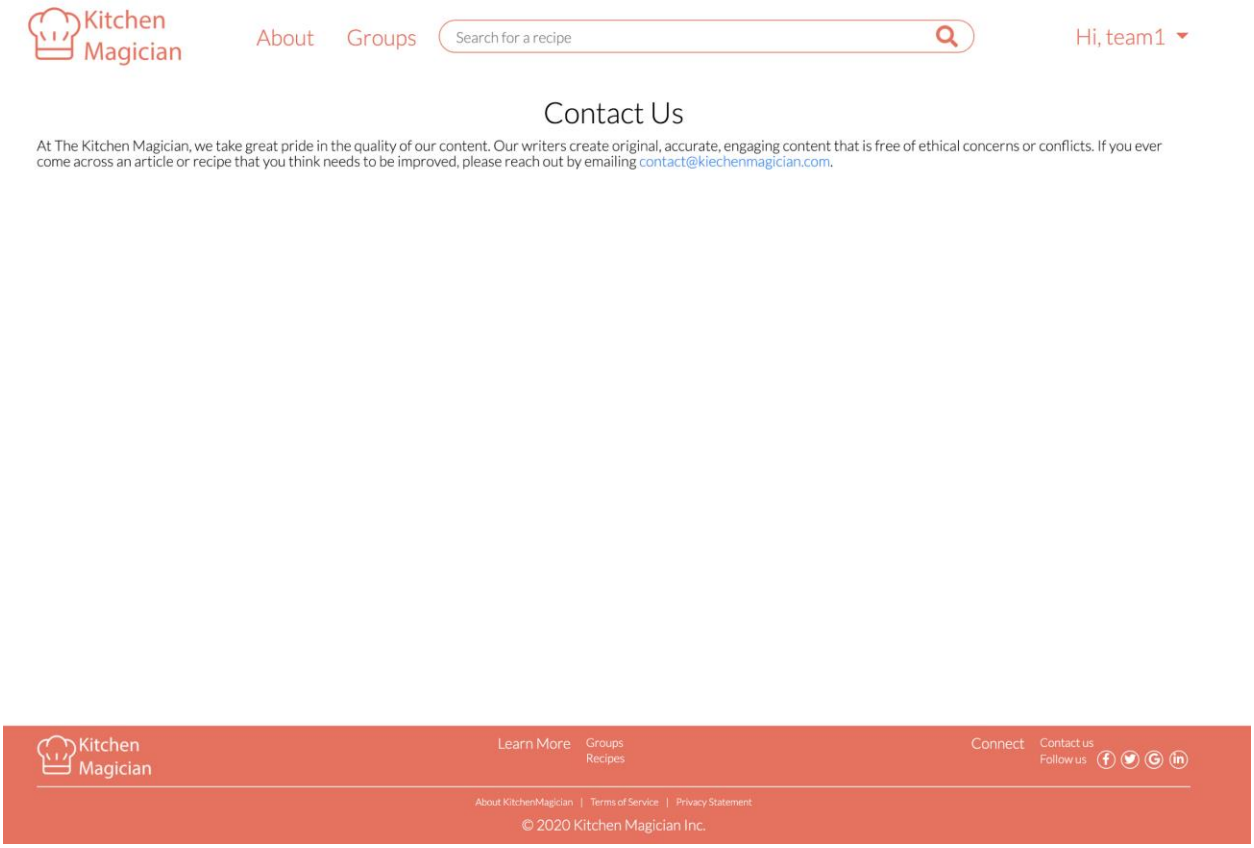
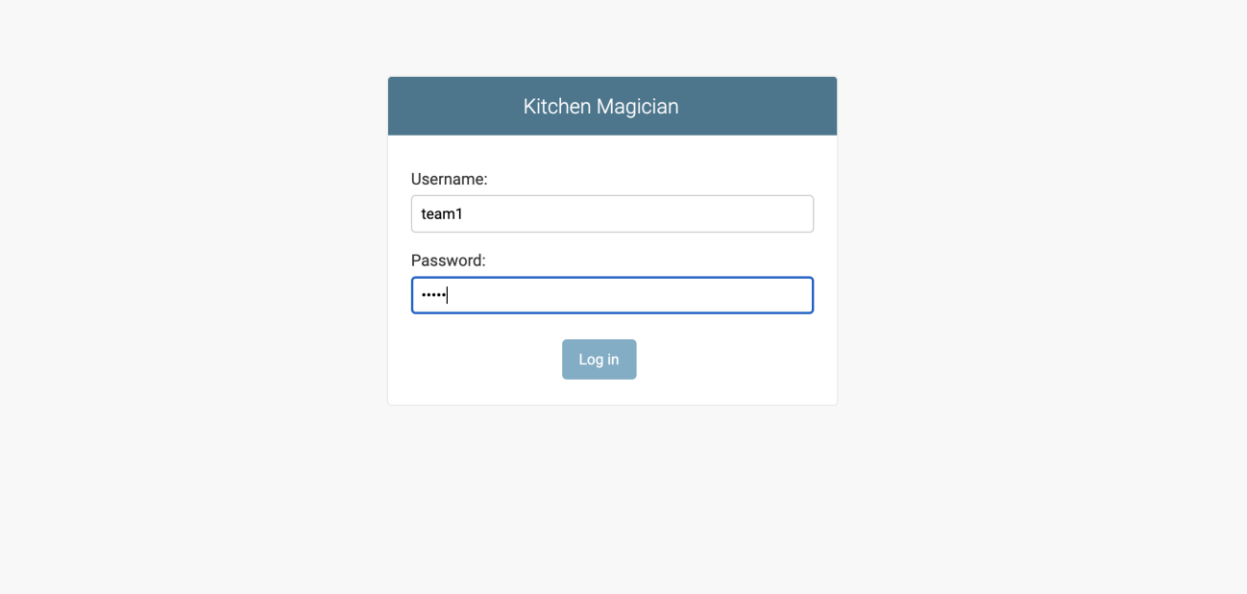
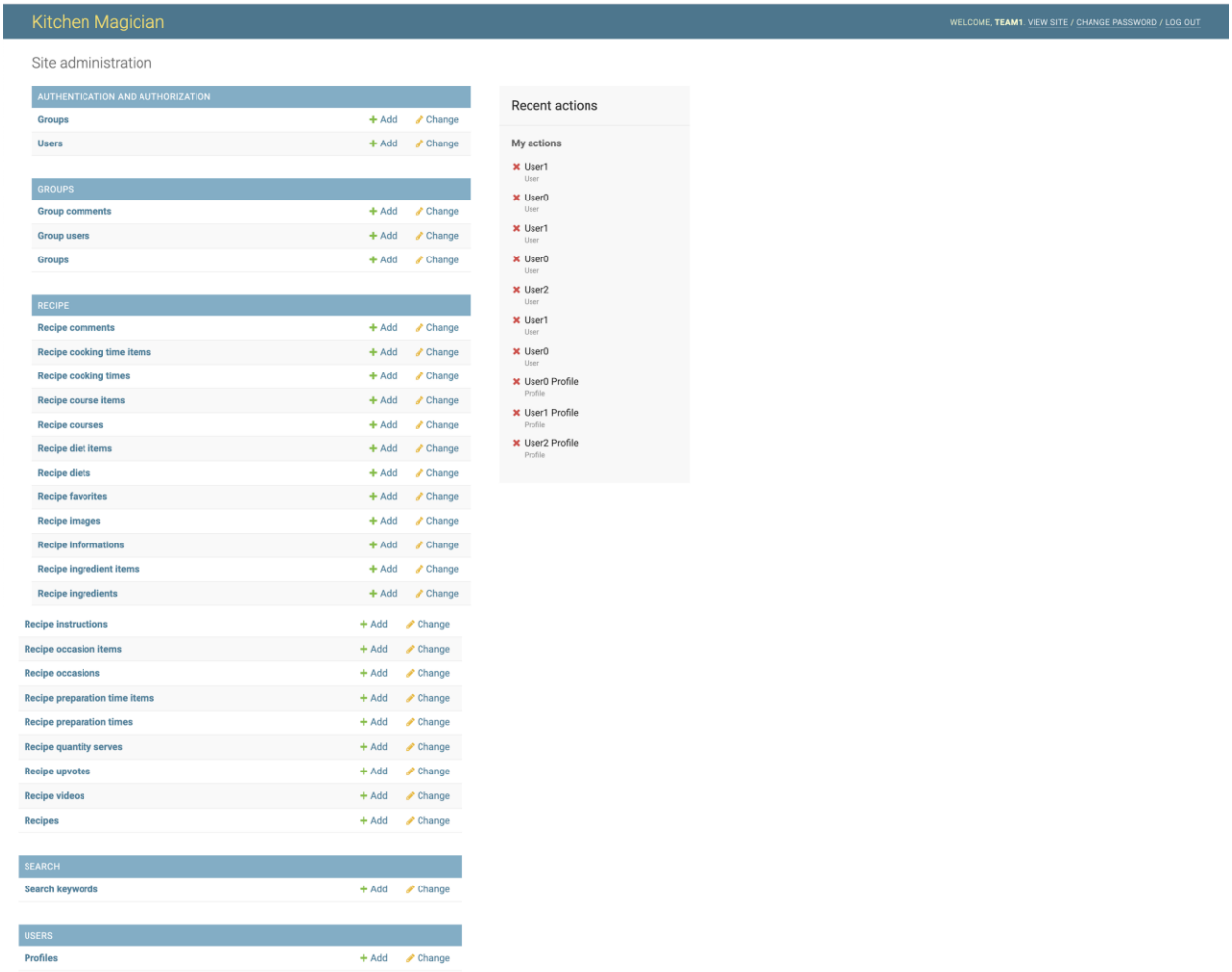
Contact us page



Admin login page:



Admin database management page:



Section 4: Key Database Tables

Database: kitchen_magician

Tables_in_kitchen_magician
auth_group
auth_group_permissions
auth_permission
auth_user
auth_user_groups
auth_user_user_permissions
django_admin_log
django_content_type
django_migrations
django_session
group
group_comment
group_type
group_user
groups
recipe
recipe_comment
recipe_cooking_time
recipe_cooking_time_item
recipe_course
recipe_course_item
recipe_diet
recipe_diet_item
recipe_favorite
recipe_image
recipe_information
recipe_ingredient
recipe_ingredient_item
recipe_instruction
recipe_occasion
recipe_occasion_item
recipe_preparation_time
recipe_preparation_time_item
recipe_quantity_serve
recipe_upvote
recipe_video
search_keyword
user_profile
user_profile_profile

- user table

id	password	last_login	is_superuser	username	first_name	last_name	email	is_staff	is_active	date_joined
1	pbkdf2_sha256$216000$4mugYMiYTgIn$a9NDs7LqjGwUzPENfvMm+Ngvj7WZqpEs2t6p0TIlnS1=	2020-12-17 05:37:21.417774	1	team1			team1@gmail.com	1	1	2020-11-02 05:14:28.592772
2	pbkdf2_sha256$216000$UYB2E1jUcjtQ$g90ae5KUtTJst5izgfIKkGtrrvTKbiSQ0wNZ3i5t8D0=	2020-11-07 01:39:40.715879	0	TestUser			test@gmail.com	0	1	2020-11-06 22:41:48.213654
3	pbkdf2_sha256$216000$KCMXO30Ii9Fd$sMsCstvCpamcTVSWNgLIV35hGN4ljgmAzmdPEQjDS0=	NULL	0	UserTest			test@gmail.com	0	1	2020-11-06 22:48:48.582700
4	pbkdf2_sha256$216000$ggMwBo0BVHFr$d15qQo7MvfeHQNhRSU/tajMq7JQjpaLuzaLs8+NirUA=	NULL	0	testUser2			test@gmail.com	0	1	2020-11-06 23:34:38.770875
5	zzzzzzzz	NULL	0	allen1				0	1	2020-11-07 23:28:13.488896
6	pbkdf2_sha256$216000$NDHBV7ZsXiH9$9PyFS2AbOsUHm9lf5fkeSo42iyzwikyQnGo3oPcadns=	2020-11-08 04:36:34.477741	0	allen2				0	1	2020-11-07 23:33:48.291826
7	pbkdf2_sha256$216000$2uZRS5Z56SFP$hWO5LqkU1c+VRCPtg63EqLtz0RcM1QZNMStaUFdzisU=	2020-11-18 16:33:58.674441	0	team3				0	1	2020-11-08 02:52:13.666453
8	pbkdf2_sha256$216000$n3Dl8p7hYe5w$OLwxnwa2JqpNZ8El1EfmXCVRIUt5WwcdFYyrQfYi4rg=	2020-12-05 21:03:21.087890	0	allensun			allensun623@gmail.com	0	1	2020-11-08 23:29:05.242154
9	pbkdf2_sha256$216000$djSmzrwmDOgf$k8K6K0sOvlI0yyhKN8QsxOXUYQvlc8cELwLUesEtvqs=	2020-11-09 01:36:38.077943	0	testUser3			test@gmail.com	0	1	2020-11-09 01:36:31.982113
10	pbkdf2_sha256$216000$18utToOnUz6P$V3Jr4Hs8QQ8YqvGNhjW5bGC8lEnENozRFmy8XhOnoy0=	2020-11-09 04:21:50.088748	0	allensun3			allensun623@gmail.com	0	1	2020-11-09 01:44:12.495538
11	pbkdf2_sha256$216000$bqK8fzyIrqti$D9xamhNprnhuXknyzGmX319iZI+JKvS3nzi+ZoWFNUI=	2020-11-09 02:23:09.515442	0	KevinTest			KevinTest@gmail.com	0	1	2020-11-09 02:23:01.602962
12	pbkdf2_sha256$216000$YdGW8harlCFf$2TYqlLM4zvbNXfgW33KTifvvu88ZLnjIsj7pvK+opeE=	2020-11-09 02:25:18.301574	0	npng16			npng098@gmail.com	0	1	2020-11-09 02:25:09.719390
13	pbkdf2_sha256$216000$2yBS5AfNa08o$c1vqHYoIa0qI1aaL2+v8Yg3fzZ9RsMec7fi/YHPQ5j4=	2020-11-13 00:55:25.280288	0	TestUser4			allensun623@gmail.com	0	1	2020-11-10 01:46:21.111921
14	pbkdf2_sha256$216000$FdNyyOA0s5b8$9zuNyVblazR/G5MoRRoZIWH5Pdc7SFrXGThTihkqkm8=	2020-11-10 01:54:46.808734	0	TestUser5			asfdd@gmail.com	0	1	2020-11-10 01:54:44.069418
15	pbkdf2_sha256$216000$qakVfT1440P6$WXTCmKdaJ34UDnHOHo7EH5TODm5p7CI/q6PKp5ZPfoU=	2020-11-15 05:57:02.015387	0	TestUser6			allensun623@gmail.com	0	1	2020-11-10 02:12:19.742344
16	pbkdf2_sha256$216000$Q4otPybuYmKv$F8SdHZ78jpa2T0+Kxoj1yBq6Upa0+WAX/2JRM4ESf8c=	2020-11-17 20:09:53.239828	0	TestUser10			allensun6234@gmail.com	0	1	2020-11-13 23:21:06.140387
17	pbkdf2_sha256$216000$0qlb3Rr7pdEW$0pCXCfgO+qh2u+lWlQl13N8nYKvJsTlz46uLD+2H39U=	2020-12-04 02:43:53.668111	0	Test			Test@mail.com	0	1	2020-11-15 14:40:57.281577
18	pbkdf2_sha256$216000$nFcAfj3o4H92$tM+UStN8+ZkePn8FvAkRHR/o3mHuBtpemYRu4rYFmDI=	2020-11-18 17:27:00.217721	0	TestUser12			allensun23623@gmail.com	0	1	2020-11-15 17:13:15.034842
19	pbkdf2_sha256$216000$XhngmJHwiKf2$sfzlGtGLrXWHi+l9FdRgpKrjHO/coEoC/7GakxGBFow=	2020-11-15 17:16:22.343144	0	TestUser7			allensunsds623@gmail.com	0	1	2020-11-15 17:16:19.798959
20	pbkdf2_sha256$216000$GANPDCZ7GnVD$tGqbGrf8DvRnYINVAm4YKZus3EuGE/N521MSgaBzlEA=	2020-11-15 17:22:31.908837	0	TestUser8			allensun123623@gmail.com	0	1	2020-11-15 17:22:29.165665

- recipe table

name	quantity_serve	created	updated	id	user_id
Vegan Banana Muffins	10	2020-11-15 05:55:37.235260	2020-11-15 05:55:37.235270	1	1
Keto Chicken Parmesan	2	2020-11-15 17:33:47.217654	2020-11-15 17:33:47.217664	2	8
Delicious Gluten-Free Pancakes	4	2020-11-17 05:29:07.424569	2020-11-17 05:29:07.424579	3	1
The Best Buttermilk Pancakes	4	2020-11-17 05:30:57.000000	2020-11-17 05:30:57.000000	4	1
Spicy Chipotle Turkey Burgers	1	2020-11-18 16:29:23.533640	2020-11-18 16:29:23.533651	5	1
Homestyle Turkey, the Michigander Way	10	2020-11-18 16:31:52.616102	2020-11-18 16:31:52.616110	6	1
Perfect Turkey	10	2020-11-18 16:33:47.502622	2020-11-18 16:33:47.502630	7	1
Sweet Potato Pie II	8	2020-11-18 22:11:33.390487	2020-11-18 22:11:33.390487	8	1
Chicken Pot Pie	1	2020-11-18 22:43:05.311267	2020-11-18 22:43:05.311267	9	17
Donut Muffins	8	2020-11-20 00:58:27.607702	2020-11-20 00:58:27.607712	10	1
Apple Tart	8	2020-11-20 02:10:40.600692	2020-11-20 02:10:40.600702	11	1
Spinach Dip	1	2020-11-20 02:16:15.057749	2020-11-20 02:16:15.057772	12	17
Thanksgiving Sweet Potatoes	6	2020-11-20 04:05:35.749060	2020-11-20 04:05:35.749070	13	1

- search_keyword table

id	keyword	count
1	cake	39
2	chicken	13
3	shrimp	12
4	thanksgiving	4
5	turkey	2
6	christmas	39
7	vegan	10
8	keto	3
9	milk	1
10	vegam	1
11	desserts	7
12	banana	1
13	muffins	2

Section 5: Task Management

Screenshots of task management (Zoom requires payment for archived messages exceeding 10,000 so not all can be retrieved)

Kevin Wei 3:04 PM

Another pretty good meeting today guys, we're nearing the deadline for Milestone 3 and seem to be relatively on track to complete it in time assuming that everyone does their job.

Today we went over what we have left to do for Milestone 3, which mainly included the job of everyone finishing their respective page implementation as well as a corresponding digital mockup.

Aside from Allen, everyone else should be doing the digital mockup for the page they are implementing. The Search/Results and Create Recipe Digital mockups are free for anyone to do if they wish, but if not, me and Nicole will do those respectively. Let me know!

Having both of these done by tomorrow evening allows for us to give good feedback that can be applied before the eventual due date. And if everyone gets it done then stringing together story across all pages becomes significantly easier for us.

Milestone 2 Version 2 feedback changes still need to be applied, so please get that to me as soon as possible. I know Kevin O and Paul are almost done with the diagram and that's great, along with Paul and Allen's updated hand drawn diagrams with story introduced.

If you finished these and I didn't catch it, that's my bad, just let me know. Same thing goes for the contributions on M3, if you think I missed anything you did, please let me know so that I can attribute that work to you. Everything is subject to change

I will be going over the UML class diagrams again to match what we currently have, I'll probably ask Allen for his input for that as well. Also Data Definitions likely need to be lightly revised so if someone wants to do it let me know and tell me what you reviewed, if not I'll do it

As always, if you need help or have any questions, feel free to ask someone!

👍 2

Kevin Wei 10:09 PM

Alright, well that could've gone a lot worse :D. Luckily for us the Horizontal Prototype was not graded, but Milestone 3 criticisms were valid and for that I take full responsibility for missing that.

In regards to the Horizontal Prototype I'm sure everybody heard the professor's criticisms loud and clear. Consistency is key. You need to guide the user at every step and turn.

I've assigned Kevin O. and Nicole to assist Jeff in implementing the Home Page. Things like updating the search bar, trending recipe, adding information about our groups function, making consistency with the website formula, and holding the user's hand are goals on the list. The Home page is a very important and steep job so I would like you all to focus everything on this objective and making it amazing!

I(Kevin W.) will take over the jobs of the groups and group forum pages as a whole in making them more consistent with the rest of the site and informing the user about every section.

Paul will be in charge of fixing what is inevitably going to be feedback on our Milestone 3 storyboards in adding arrows to show user actions, making a contact up page accessed from the right of the navbar, and formatting and making the style of the profile page more consistent.

Allen will be in charge of updating the Sign up and Terms of conditions pages, as well as updating the search/results page to include consistency and user hand holding.

In regards to page implementations, page formatting and content is set for the 25th, and styling for those pages is on the 28th. The professor is honestly not giving us a whole lot of time since Milestone 4 is due on December 3rd, but I'll talk about that more next week.

I will be uploading our meeting with the professor before the end of the weekend so that everyone can have a refresher on what he talked about.

As always, if you have any questions or need help with something, feel free to ask! Sorry I'm not doing the greatest job at this, if you have any complaints please let me know so I can help or fix them. Let's show the professor the improvement he wants to see!

💯 2

Kevin Wei 1:59 PM

Before Saturday:
M4 Section 2 Distribution:
Trending Features Testing: Kevin O
Group Features Testing: Nicole
Search Function Testing: Allen Kevin W
Recipe Creation: Jeff
Recipe Contents/Favorite/Comments: Paul
Please make a first draft version of Test objectives, Test description, Usability Task description, Usability test table, and Questionnaire for your assigned feature following the instructions in section 2.
Allen will also help me come up with 5 features we can test for QA testing which we will go over after.
As for code review, when revising your designated pages please try and follow a professional and somewhat similar style similar to Allen's in terms of css and html. Getting it in now reduces the headache later once finals catch up. (edited)

2 1

Kevin Wei 1:49 PM

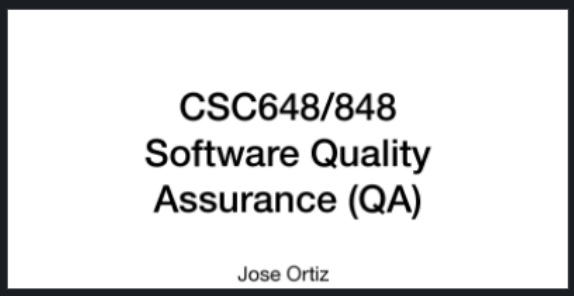
Hey guys, just a reminder to keep up with your section 2 parts
More stuff to do *BEFORE* the meeting on Tuesday:
Section 3 QA Test plans:
Allen has already made five test situations that are on the M4 document and the rest of us will come up with Test Plan Outlines for them
1: Jeff
2: Paul
3: Kevin W
4: Nicole
5: Kevin O
Section 5 Self-check on best practices for security: Allen
The parts don't have to be perfect but I want to go over sections 1-3, 5 during the Tuesday meeting so having something to review in the first place is paramount. I want to then send the Professor a rough draft Tuesday night and get early feedback.

1

QA Test plans are outlined on the SW Quality Assurance class slides on page 20 for reference

PDF

SW Quality Assurance (QA).pdf
685 kB PDF



Section 6: Team Member Contributions

1. Allen Sun:

Team1 Contributions

Kevin Sun Wei
Thu 12/17/2020 2:19 PM
To: Allen Sun

Hey Allen,

I agree with your list of contributions.

Sincerely,
Kevin Wei

Reply | Forward

Allen Sun
Thu 12/17/2020 2:16 PM
To: Paul Lane Asu; Kevin Carlos Ortiz; Kevin Sun Wei; Nicole Leilani Pang; Jeff C Cheng

Hi team,

Here are my contributions for our project:

Milestone 0: Set up server Instance with server host, added SSH/log into server, installed and deployed database, installed needed packages, created team about page.

Milestone 1: Section 7, executive summary, use cases (1), section 5, participated/attend team meetings, applied feedback to individual and shared sections.

Milestone 2: Attending all meetings, sorted and expanded priority 1 functional requirements, created Emma mockup, created applied mockup feedback, assisted with creation of business rules, created ERD from business rules, created database for vertical prototype, deploying the website, helped implement search algorithm, helped with trending search algorithm outline, helped with vertical prototype, debug code, updated Emma mockup.

Milestone 3: Sign up page implementation, Login page implementation, Create Recipe page implementation, Recipe page implementation, Search/Results page implementation, 404 Recipe not found implementation, participated in the group meeting revising functionals, provided instruction and steps for team members to learn frameworks, helped all team members learn frameworks, managed database, worked on section 4, attended most meetings.

Milestone 4: Helped with section 3 QA Test Plan, worked on section 4 Code Review and sent code review request, worked on section 5 Self-Check for Best Practices and section 6 List of Non-Functional Requirements. Backend of groups page and group forum page implementation, Privacy Policy page implementation, Terms of User page implementation.

Milestone 5: Added sections of recipe course, recipe occasion, and groups to home page. Popular Searches function implementation. Contact us page implementation. Settings page implementation. Refactored backend of application. Helped with section 3 Final Product. Worked on section 4 Key Database Tables.

Number of Submissions made to GitHub: around 150.

Best regards,
Allen

2. Kevin Ortiz:

Contributions

Kevin Sun Wei
Thu 12/17/2020 2:51 PM
To: Kevin Carlos Ortiz

Hey Kevin,

I agree with your list of contributions.

Sincerely,
Kevin Wei

Reply | Forward

Kevin Carlos Ortiz
Thu 12/17/2020 2:51 PM
To: Nicole Leilani Pang; Kevin Sun Wei; Allen Sun; Jeff C Cheng; Paul Lane Asu

Dear Team01,

Below you will find a list of my contributions to our group project during the semester:

Part A)

For Milestone 1:
- In M1 I assisted in formatting the document and created the use cases. I also provided feedback to team members. I also completed section 6 that included the competitive analysis.

For Milestone 2
- Assisted in formatting the document. I also completed my section for the UI storyboard and mock-up. Assisted in created section 4 of part 1 and part 2. I also completed part 3 that includes the ERD model

For Milestone 3:
- Created a UI wireframe for the kite and Andrew storyboard. Assisted in formatting the document. Worked with Nicole and Jeff to change the home page code. I also created the group page.

For Milestone 4:
- Completed a code review for Allen's page of base.html , completed qa test plan for section 3 part 5. Wrote usability test plan for group features, product summary, formatted document

For Milestone 5:
* Help format document. Reviewed the work that is in the document for preparation

Part B) Number of Submissions Made to GitHub Repository:

Best,

Kevin Ortiz

3. Kevin Wei:

Team 1 Contribution

AS Allen Sun
Hey Kevin, I agree with your list of contributions. Sincerely, Allen
Thu 12/17/2020 2:24 PM

KW Kevin Sun Wei
Thu 12/17/2020 1:46 PM
To: Nicole Leilani Pang; Jeff C Cheng; Allen Sun; Paul Lane Asu; Kevin Carlos Ortiz

Hey Team,

Here is my general list of contributions for our project this semester
In General:
Planned team meetings, attended and participated in team meetings, ran all team meetings, and documented meetings including those with the professor.
Learned Django, Google Cloud, Python, and MySQL from Allen and then helped teach other team members the code and helped them debug issues.
Reviewed and gave feedback on team members' work.
For Milestone 1:
Created Executive summary, created 2 Use cases for functionals and gave feedback on all use cases to match user needs, created main data items and entities, created initial list of functional requirements, and formatted document for submission.
For Milestone 2:
Expanded Data definitions, created mockup for 2 use cases made in M1, created high level UML class diagrams, explained how the trending recipes algorithm works, identified key risks for the team at the time, created prototype home and search/results pages, improved the search algorithm, and formatted the M2 document for submission.
For Milestone 3:
Distributed work to all team members, implemented Group Forum page, created the base for all digital mockups, completed half of the digital mockups, and constructed the storyboards. Reformatted functional req's after team review
For Milestone 4:
Distributed work to all team members, wrote and finalized product summary, created 2 Usability Test plans, created 2 QA Test plans, did code review, attempted and failed to find external review
For Milestone 5:
Added screenshots of task management system, reviewed team member contributions, wrote Post analysis lessons learned
Number of Submissions made to GitHub dev branches: ~10 containing group forum page implementation, prototype home and search/results page, and prototype search algorithm

Sincerely,
Kevin Wei

4. Jeff Cheng:

Frontend Lead's Contribution

KW Kevin Sun Wei
Thu 12/17/2020 1:54 PM
To: Jeff Cheng <apisorder@gmail.com>

Hey Jeff,

I agree with your list of contributions.

Sincerely,
Kevin Wei

Reply | Forward

JC Jeff Cheng <apisorder@gmail.com>
Thu 12/17/2020 1:27 PM
To: Kevin Sun Wei; Nicole Leilani Pang; Allen Sun; Kevin Carlos Ortiz; Paul Lane Asu

Hi Team 1, hope all is well with you.

This is your frontend lead, reiterating my participation in the team:

My assigned role is Frontend Team, attended all group meetings, and has given general feedback for all milestone documents. The number of my local commits exceeded 100.

For Milestone 0, I created a React backstone to which individual pages from other members are connected, and created a cloud instance as a backup for the team's cloud instance.

For Milestone 1, I revised the executive summary, wrote Alice's use case and the list of functional requirements. I successfully connected React to Django with a fully working frontend and backend.

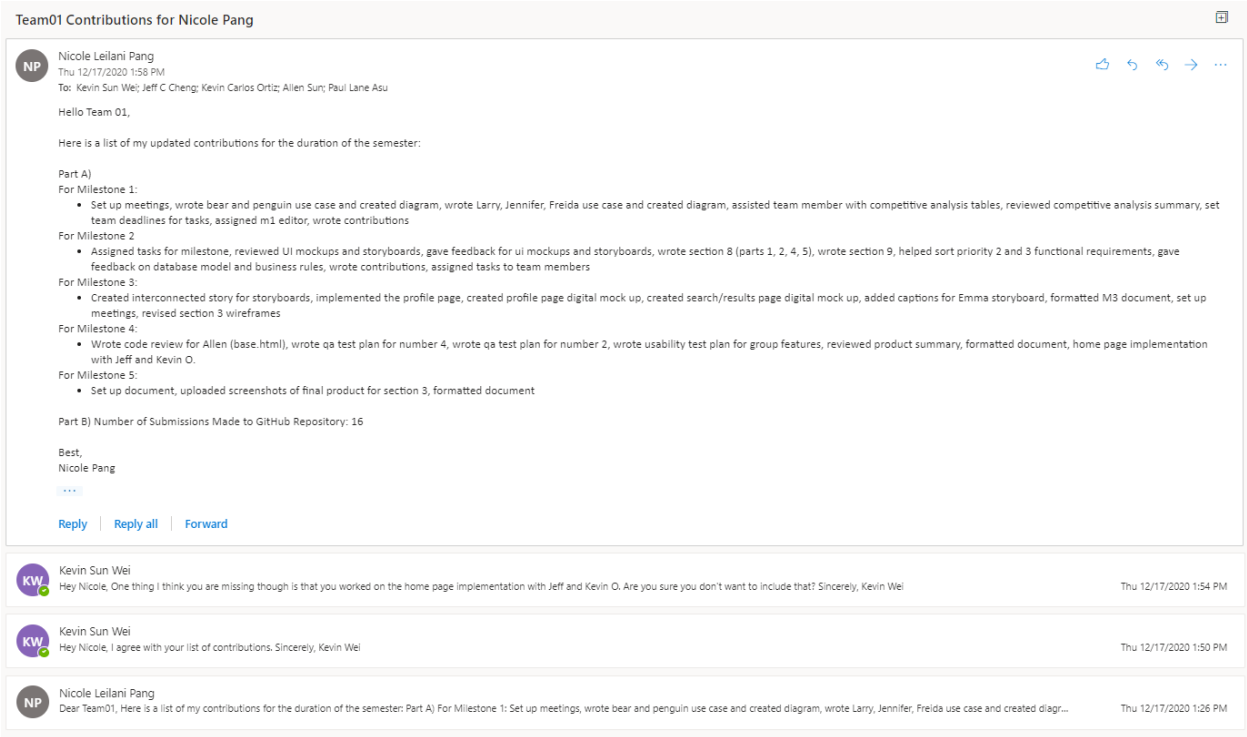
For Milestone 2, I created UI mockup and storyboard for Alice's use case, came up with the recipe search algorithm, with explanations of its logic, high level application network diagram, the deployment diagram, and helped with identifying actual key risks to our project at that time. I followed the YouTube series Allen provided and implemented an alternative project using only Django, with identical functionalities to Allen's frontend and backend, but with completely different code. Eventually, Allen's code base has been chosen.

For Milestone 3, I revised functional requirements, modified the base wireframe Kevin provided, and made the wireframe for the home page. I have been assigned to work on only the product home page.

For Milestone 4, with the help of Nicole Pang and Kevin Ortiz, we completely revised the product home page. I created both the usability plan and QA test plan for recipe creation, and completely reformatted the usability test plan section for consistency between subsections. I reviewed and commented on code snippets sent by Allen and Kevin Wei.

For Milestone 5, I completely revised the product summary, added previous milestone documents with minimum changes, and minor changes in post analysis.

5. Nicole Pang:



Team01 Contributions for Nicole Pang

NP Nicole Leilani Pang
Thu 12/17/2020 1:58 PM
To: Kevin Sun Wei; Jeff C Cheng; Kevin Carlos Ortiz; Allen Sun; Paul Lane Asu

Hello Team 01,

Here is a list of my updated contributions for the duration of the semester:

Part A)
For Milestone 1:
- Set up meetings, wrote bear and penguin use case and created diagram, wrote Larry, Jennifer, Freida use case and created diagram, assisted team member with competitive analysis tables, reviewed competitive analysis summary, set team deadlines for tasks, assigned m1 editor, wrote contributions

For Milestone 2
- Assigned tasks for milestone, reviewed UI mockups and storyboards, gave feedback for ui mockups and storyboards, wrote section 8 (parts 1, 2, 4, 5), wrote section 9, helped sort priority 2 and 3 functional requirements, gave feedback on database model and business rules, wrote contributions, assigned tasks to team members

For Milestone 3:
- Created interconnected story for storyboards, implemented the profile page, created profile page digital mock up, created search/results page digital mock up, added captions for Emma storyboard, formatted M3 document, set up meetings, revised section 3 wireframes

For Milestone 4:
- Wrote code review for Allen (base.html), wrote qa test plan for number 4, wrote qa test plan for number 2, wrote usability test plan for group features, reviewed product summary, formatted document, home page implementation with Jeff and Kevin O.

For Milestone 5:
- Set up document, uploaded screenshots of final product for section 3, formatted document

Part B) Number of Submissions Made to GitHub Repository: 16

Best,
Nicole Pang

Reply | Reply all | Forward

KW Kevin Sun Wei
Hey Nicole, One thing I think you are missing though is that you worked on the home page implementation with Jeff and Kevin O. Are you sure you don't want to include that? Sincerely, Kevin Wei — Thu 12/17/2020 1:54 PM

KW Kevin Sun Wei
Hey Nicole, I agree with your list of contributions. Sincerely, Kevin Wei — Thu 12/17/2020 1:50 PM

NP Nicole Leilani Pang
Dear Team01, Here is a list of my contributions for the duration of the semester: Part A) For Milestone 1: Set up meetings, wrote bear and penguin use case and created diagram, wrote Larry, Jennifer, Freida use case and created diagr... — Thu 12/17/2020 1:26 PM

6. Paul Asu:
   Not in the meeting and not received

Section 7: Post Analysis

Lessons Learned:

This project was a new experience for many of our team members, and many of our issues stemmed from how we approached this project at the beginning of the semester. One of these issues was in our team and task management. From the beginning of the semester till the end, we decided that our line of communication and task management would be done through a private slack channel and Google Drive comments. This brought up issues such as members not knowing when a specific task was done or not knowing the specifics of the task they were assigned. In a project like this where many components rely on another, this was a big mistake. In addition, we initially decided that we would only do one audio meeting per week, moving it up to two at the professor's suggestion. This was a good change, but it came too late and we weren't flexible enough with our meetings. They were linear. They were an hour long and the routine process was simply what do we have and what do we need. Also, we were too focused on getting every member in a meeting at once that we didn't consider just having smaller intermittent meetings so that members could get instant feedback on work they were doing by someone else in the group. At the initial stages of developing our product, many members had a different vision on what the website should be, and having more meetings like this would have solidified our *team's* vision sooner as well as provided help when necessary.

Another challenge that our team had to push through was simply the amount of learning many of our members had to do for this project. At the beginning of the semester when we were selecting frameworks and programming languages, very few of our team member's familiarities overlapped and we had trouble finalizing this list. When we finally did finalize what we wanted to use, a majority of our team members were not comfortable with them and needed to learn them. Most members were only at the beginner-intermediate level of python and some even needed to learn basic HTML/CSS. This combined with the fact that many were not familiar with Django, MySql, Github, and Google Cloud left many members overwhelmed. The one member who knew these frameworks and languages did his best to teach, but there's only so much one person can do. In the process of learning, members also experienced struggles due to using a different OS. Within our team, MacOS, Windows, and Linux were all in use and the process for each of them was slightly different which gave us trouble. This in addition to having to learn the general formula of the class left many members overwhelmed. Next time, we would want members to be more familiar with the finalized frameworks and languages so that our attention could be focused more on the meat of the project.

Lastly there was the issue of team members' work. This was a problem pretty much across the board, some more than others. Due dates were assigned, but were lax. Due to this, members did not always submit work on time, and when work was finished, it was not up to the standards of our CTO and was late, giving us little time to review. This led to a lot of our Milestones looking like rough drafts. Next time, Team Leads should take action to strictly enforce due dates and document team member's work.