

Kitchen Magician

SW Engineering CSC648/848

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Team 01

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Milestone 3

History Table

Version	Date
M3V1	11/19/2020

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Section 1: Data Definitions V3

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, 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. 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 a 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:

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 groups involved on the profile page.
 - 16.3 Registered User shall see its own recipes on the profile page.
22. Registered User shall see a navigation bar on all pages.
 - 22.1. Registered User shall see a logo on the navigation bar on all pages.
 - 22.2. Registered User shall see an input search on the navigation bar on all pages.
23. Registered User shall be able to search for recipes at the search page.
24. Registered User shall be able to view recipes.
25. Registered User shall be able to create their own recipes.
27. Registered User shall be able to delete their own recipes.
31. Registered User shall be able to add a comment on any public recipe.
35. Registered User shall be able to favorite a recipe.
37. Registered User shall be able to view existing groups.
38. Registered User shall be able to join a group.

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.
- 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.
- 50. Admin shall be able to view recipes.
- 51. Admin shall be able to create their own recipes.
- 53. Admin shall be able to delete any public recipes.
- 57. Admin shall be able to add a comment on any public recipe.
- 59. Admin shall be able to favorite a recipe.
- 62. Admin shall be able to delete a group.
- 64. Admin shall be able to join a group.

Recipe:

- 66. A recipe shall have a title.
- 67. A recipe shall have one or more recipe categories to be 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.
- 73. A recipe shall be labeled trending when it is the recipe with the most favorites.

Group User:

- 74. Group User shall be able to view the group forum of groups they are in.
- 75. Group User shall be able to search for recipes.
- 76. Group User shall be able to post to the forum.
- 77. Group User shall be able to comment on the forum.
- 81. Group User shall be able to log in with a valid username.
- 82. Group User shall be able to log in with a valid password.
- 83. Group User shall be able to log out.
- 86. Group User users shall see a navigation bar on all pages.
 - 86.1. Registered User shall see a logo on the navigation bar on all pages.
 - 86.2. Registered User shall see an input search on the navigation bar on all pages.
- 87. Group User shall be able to search for recipes.
- 88. Group User shall be able to view recipes.

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:

- 43. Admin shall be able to change their password.
- 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.
- 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.
- 56. Admin shall be able to upvote any public recipe.
- 58. Admin shall be able to delete any comment on any public recipe.
- 65. Admin shall be able to delete messages from the group forum.

Recipe:

- 72. A recipe should add zero or only one video.

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.
- 63. Admin shall be able to reset password for users.

Recipe:

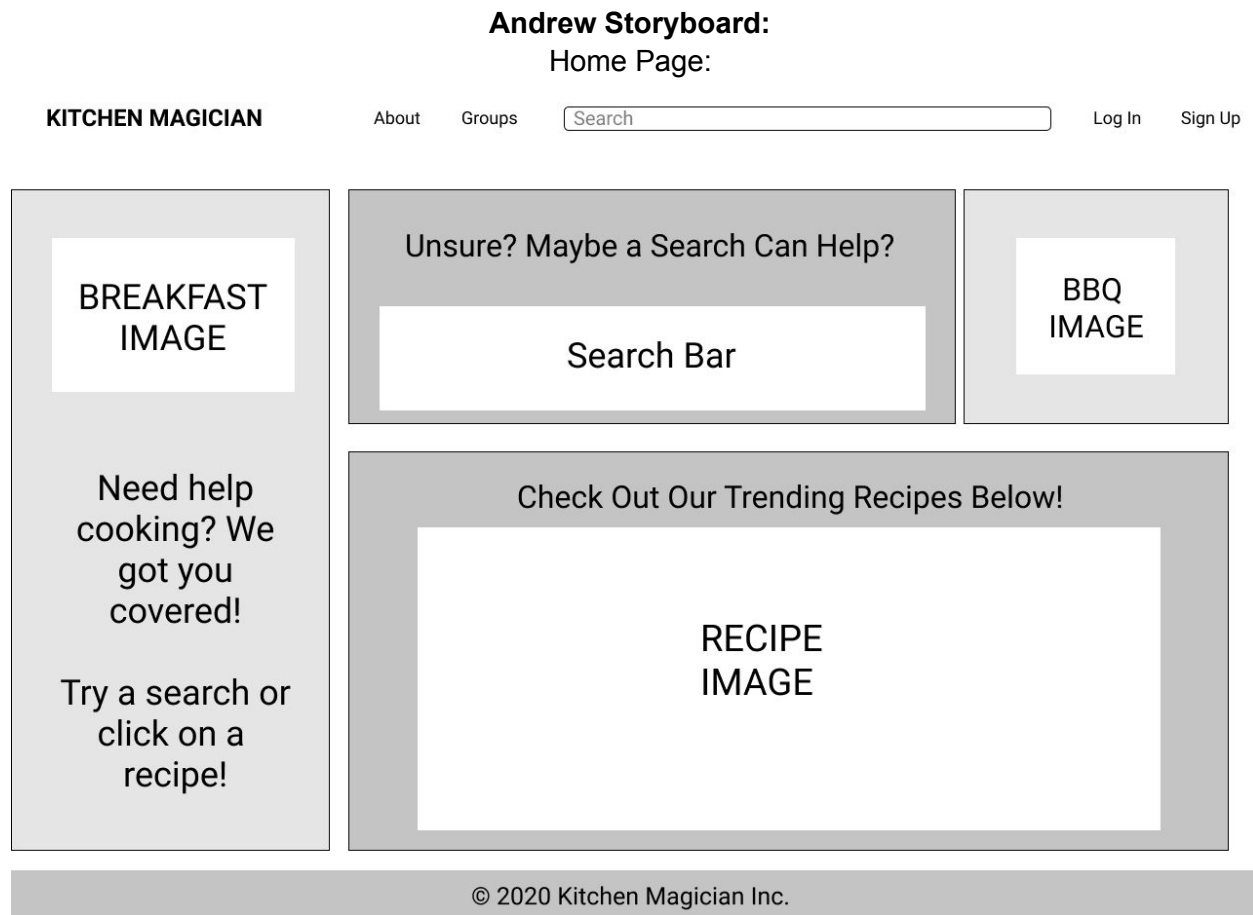
- 68. A recipe shall have one or more keywords added for search.

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 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:

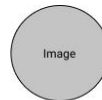
KITCHEN MAGICIAN

[About](#)

[Groups](#)

[Log In](#)

[Sign Up](#)



Welcome Back

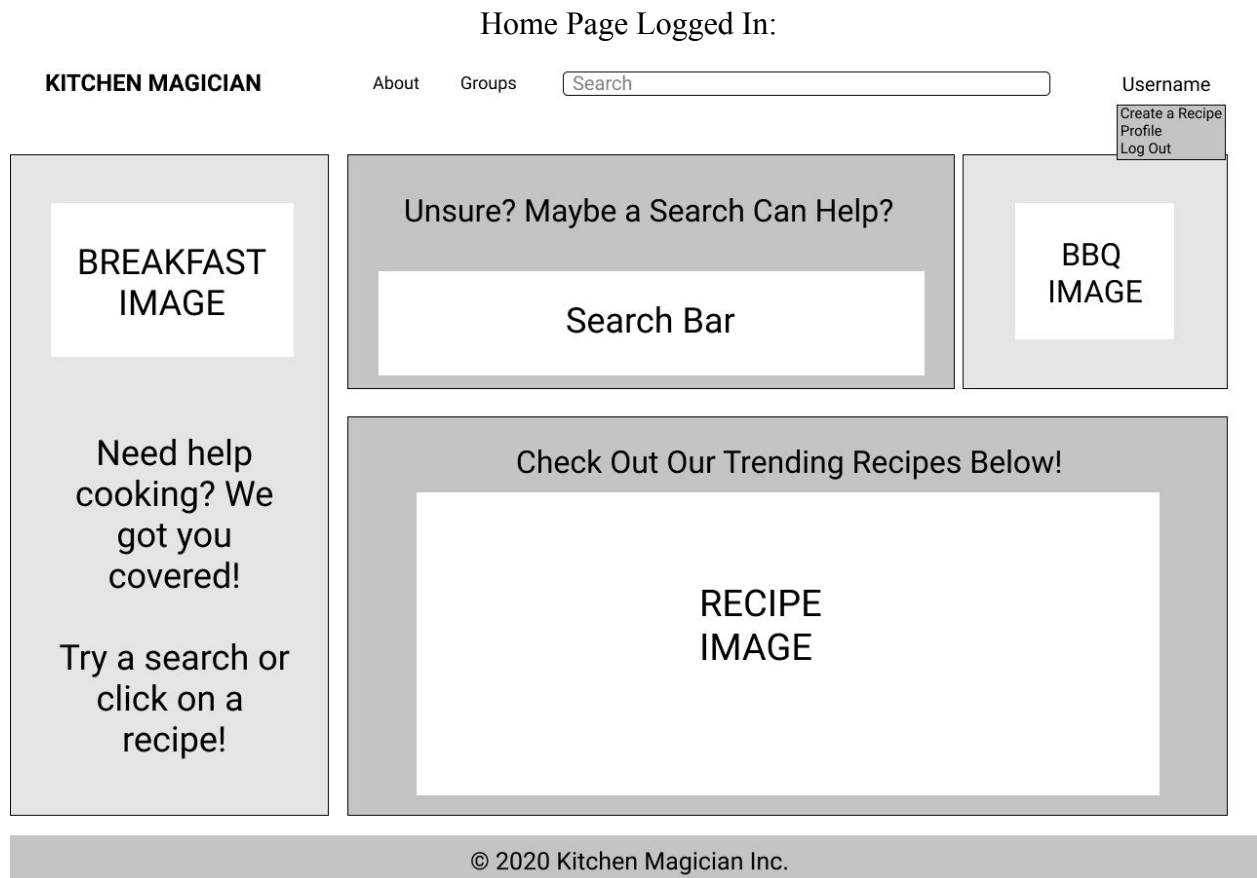
Log In

[Forgot Password?](#)

[Don't have an account? Sign Up](#)

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



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:

KITCHEN MAGICIAN

About

Groups

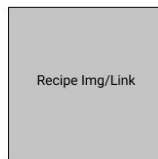
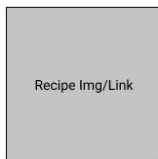
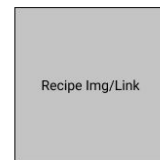
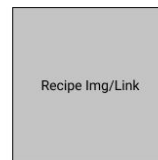
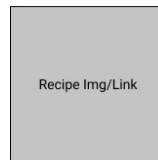
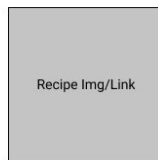
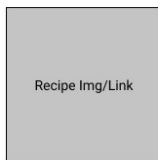
Search

Username

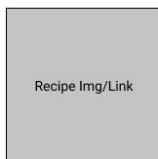
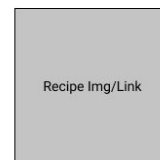
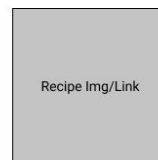
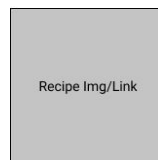
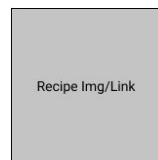
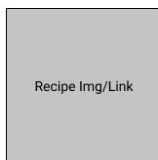


Username
user@email.com

Recipes



Favorites



Add Recipe

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

Create Recipe Page:

KITCHEN MAGICIAN

About

Groups

Search

Username

Create A Recipe

Enter Recipe Title:

Tell us about your Recipe:

Enter Ingredients:

Enter Instructions:

Upload a Photo of your Recipe:

Upload Image

Share a Video link of your Recipe:

Preparation Time:

Estimated Cooking Time:

Recipe Course:

Serving Size:

Select an Occasion for your Recipe:

- | | | |
|-------------------------------------|---------------------------------------|---|
| <input type="checkbox"/> New Years | <input type="checkbox"/> Chrstimas | <input type="checkbox"/> Easter |
| <input type="checkbox"/> Valentines | <input type="checkbox"/> Thanksgiving | <input type="checkbox"/> Fourth of July |
| <input type="checkbox"/> Super Bowl | <input type="checkbox"/> Mother's Day | <input type="checkbox"/> None |

Select a Diet your Recipe fits:

- | | | |
|--------------------------------------|--------------------------------------|-------------------------------------|
| <input type="checkbox"/> Vegan | <input type="checkbox"/> Keto | <input type="checkbox"/> Vegetarian |
| <input type="checkbox"/> Gluten Free | <input type="checkbox"/> Pescatarian | <input type="checkbox"/> Paleo |
| <input type="checkbox"/> Low Carb | <input type="checkbox"/> Raw | <input type="checkbox"/> None |

Legal text

Submit

Cancel

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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:

KITCHEN MAGICIAN

AboutGroups

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

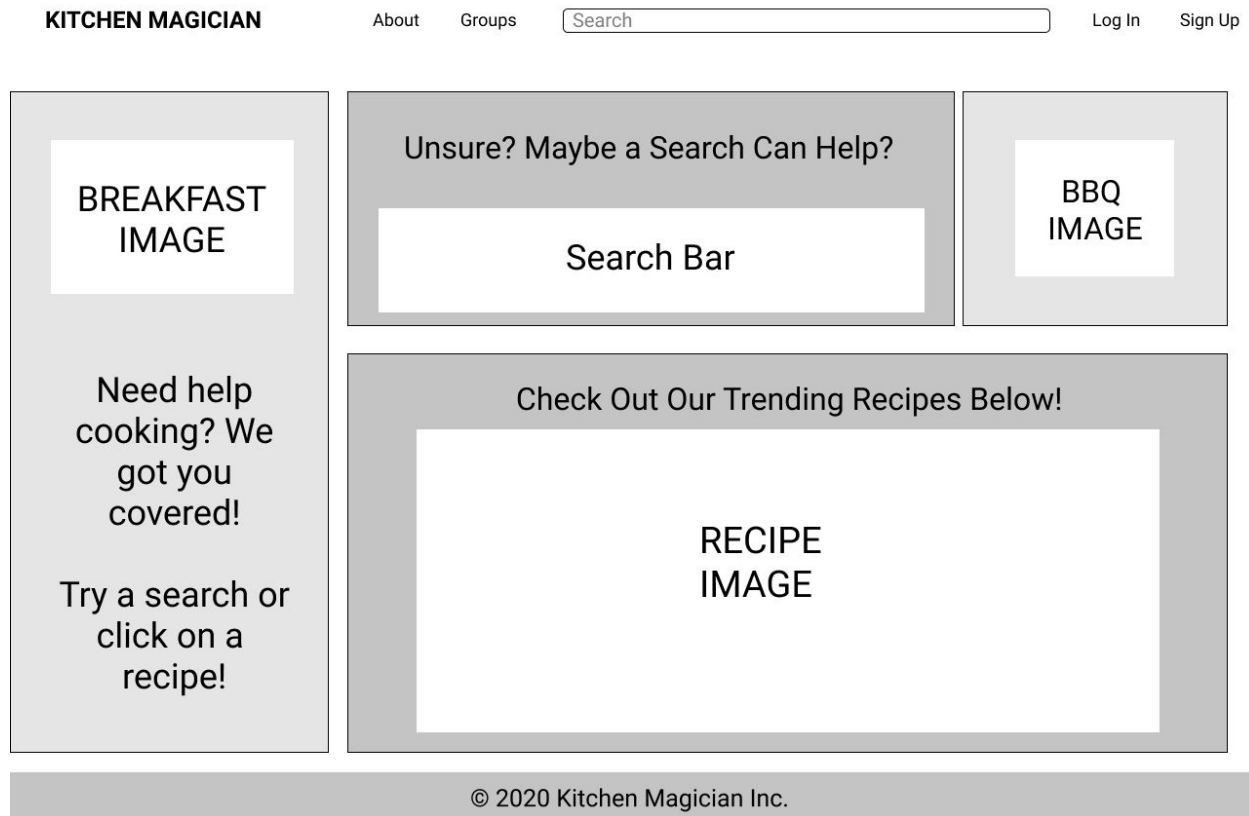
Submit Review

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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 searches, 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:

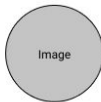
KITCHEN MAGICIAN

[About](#)

[Groups](#)

[Log In](#)

[Sign Up](#)



Sign Up

Sign Up

Already have an account? [Log In](#)

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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:

KITCHEN MAGICIAN

AboutGroups

Log InSign Up

Image

Welcome Back

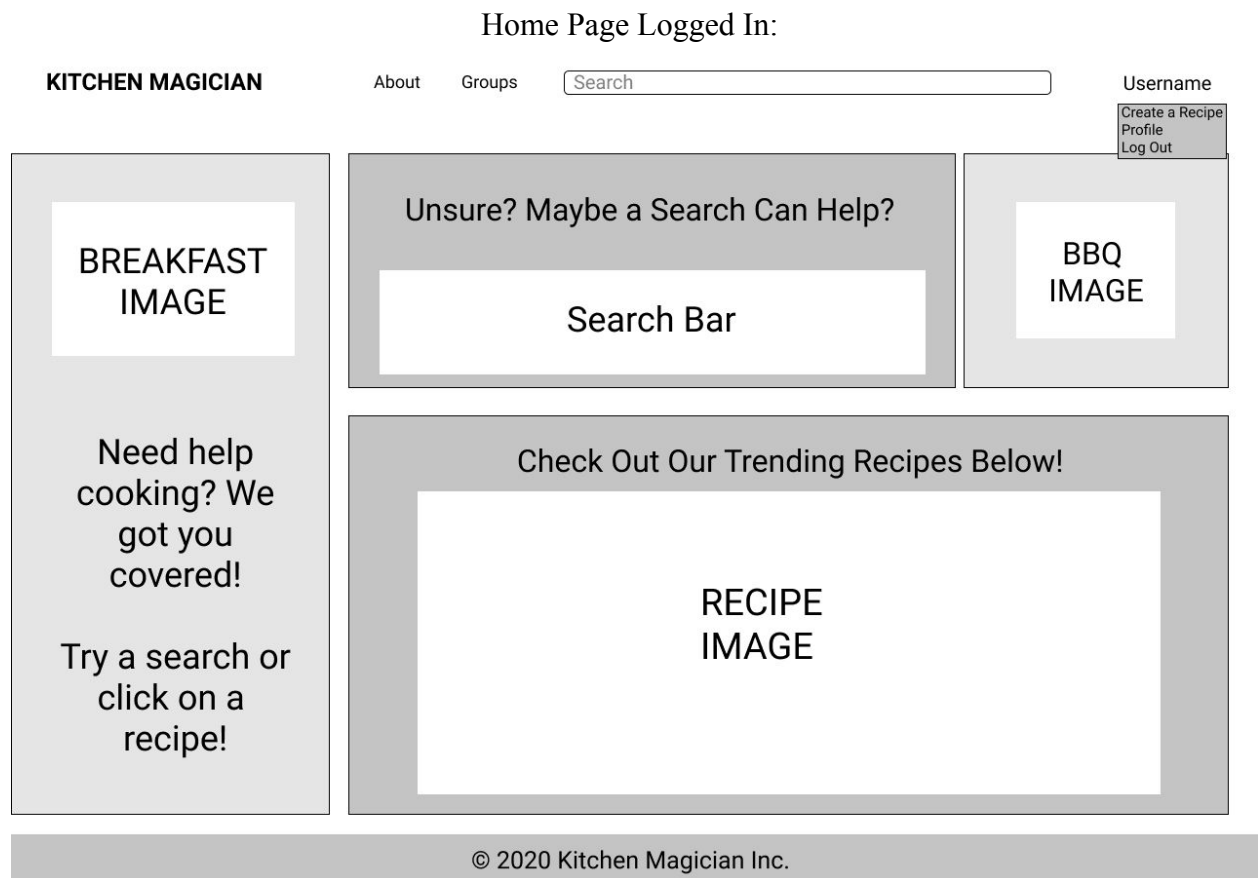
Log In

[Forgot Password?](#)

[Don't have an account? Sign Up](#)

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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.



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:

KITCHEN MAGICIAN

About

Groups

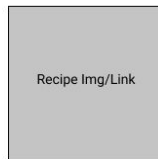
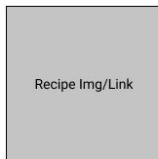
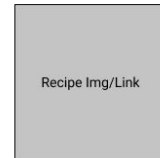
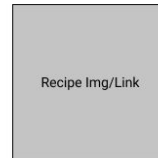
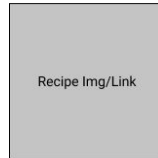
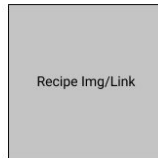
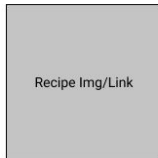
Search

Username

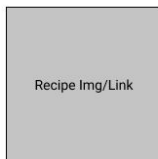
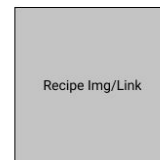
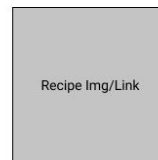
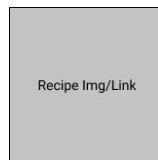
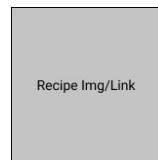
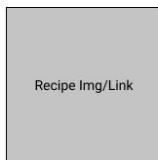


Username
user@email.com

Recipes



Favorites



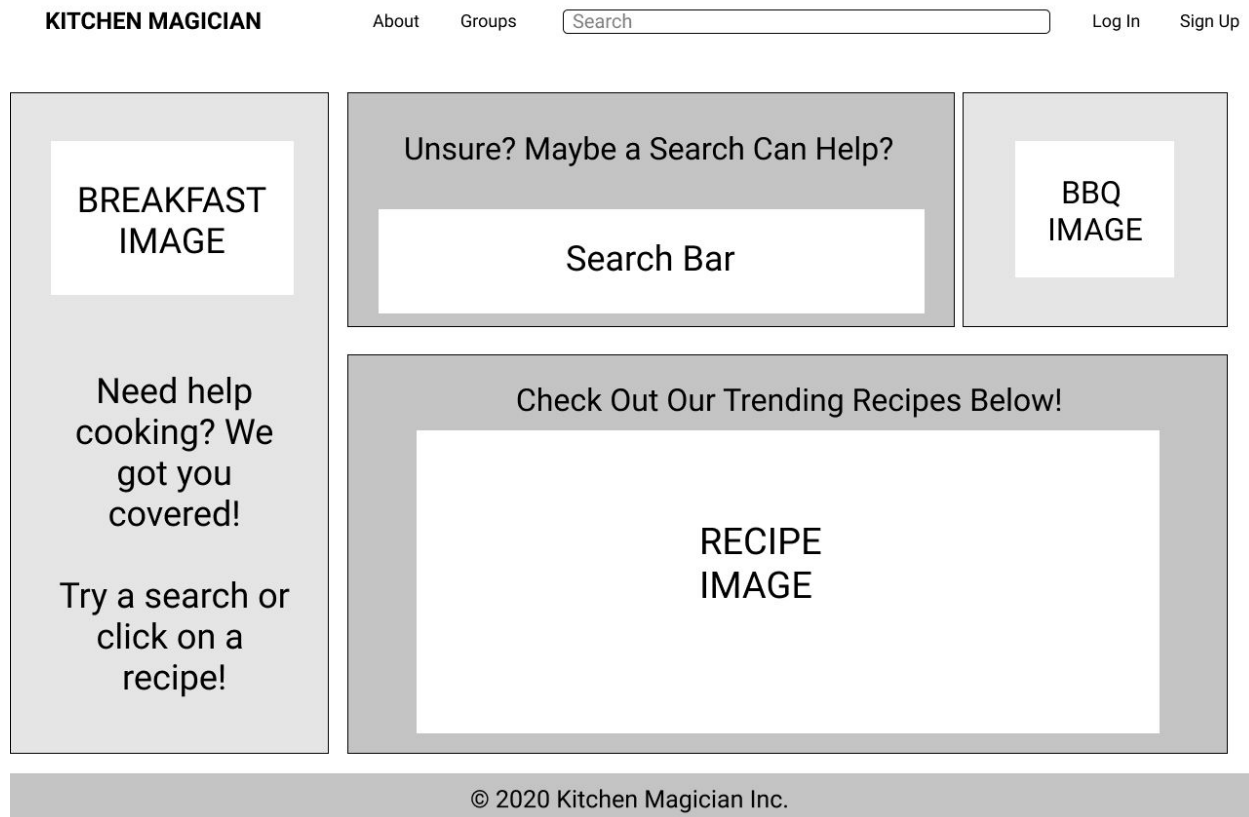
Add Recipe

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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.

KITCHEN MAGICIAN

Search/Results Page:

AboutGroups

Log InSign Up

Find a Recipe

Courses

☐ Breakfast

☐ Lunch

☐ Dinner

Diets

☐ Keto

☐ Gluten Free

☐ Vegan

Occasions

☐ New Year's

☐ Thanksgiving

☐ Christmas

☐ Hanukkah

Example Result

Number of Favorites

Time:

Makes:

Diet

Example Result

Number of Favorites

Time:

Makes:

Diet:

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22

Recipe Page:

KITCHEN MAGICIAN

AboutGroups

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

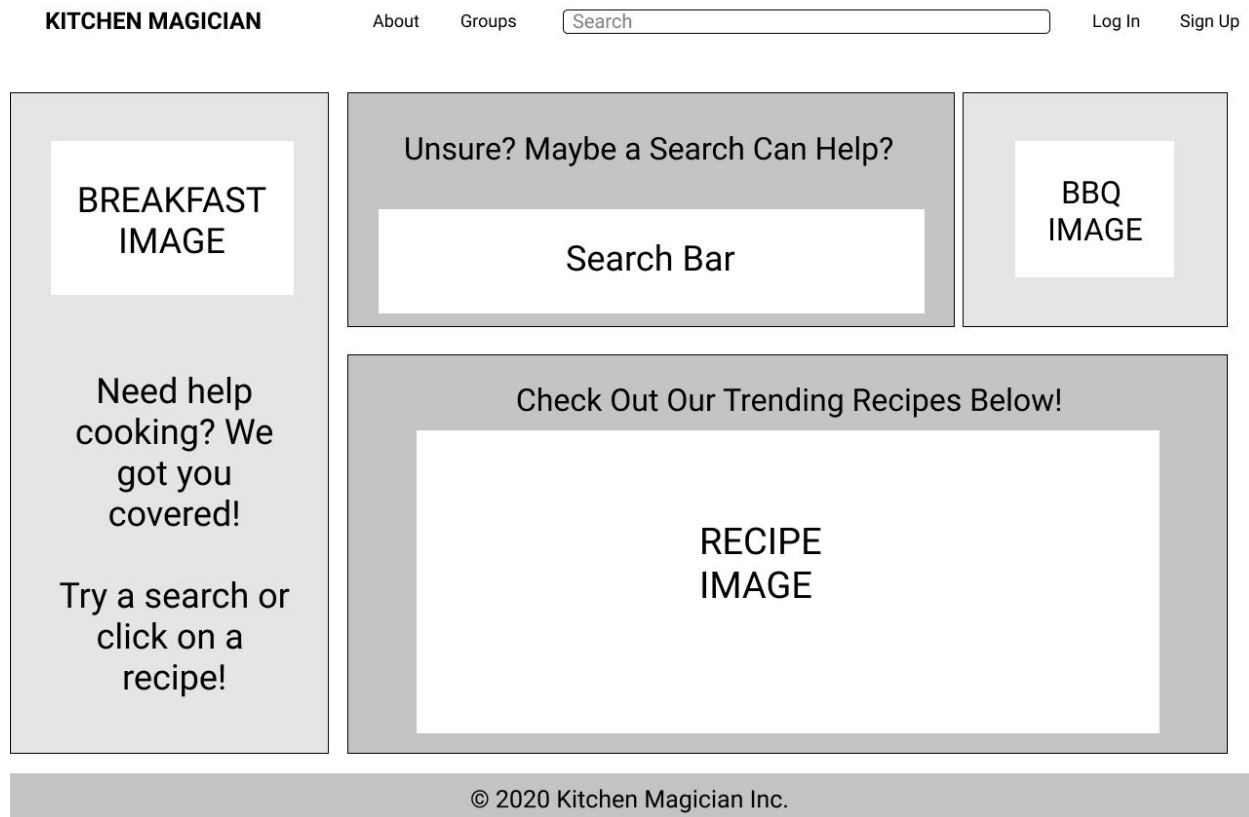
Submit Review

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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:

KITCHEN MAGICIAN[About](#)[Groups](#)[Log In](#)[Sign Up](#)

Courses

☐ Breakfast

☐ Lunch

☐ Dinner

Diets

☐ Keto

☐ Gluten Free

☐ Vegan

Occasions

☐ New Year's

☐ Thanksgiving

☐ Christmas

☐ Hanukkah

Example Result

Number of Favorites

Time:

Makes:

Diet:

Example Result

Number of Favorites

Time:

Makes:

Diet:

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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:

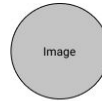
KITCHEN MAGICIAN

[About](#)

[Groups](#)

[Log In](#)

[Sign Up](#)



Welcome Back

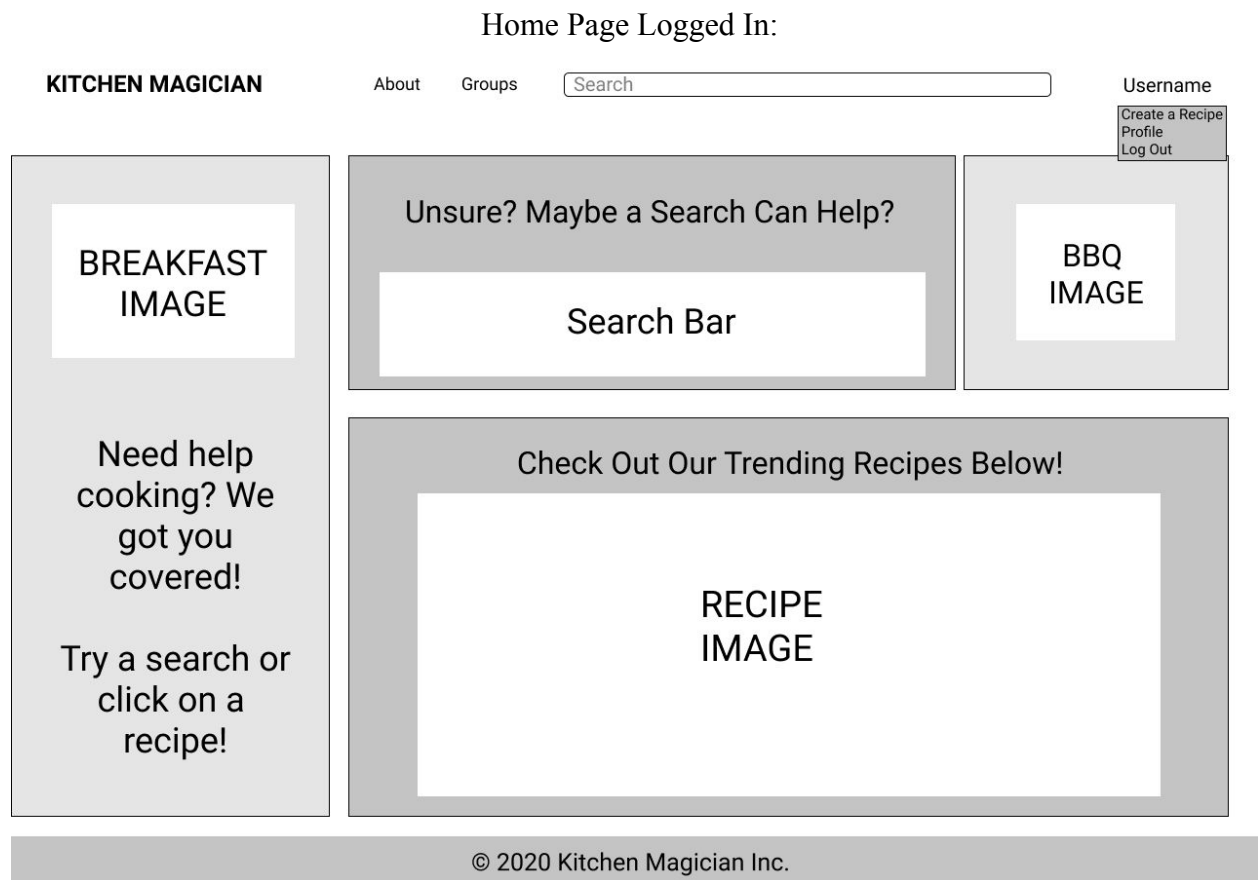
Log In

[Forgot Password?](#)

[Don't have an account? Sign Up](#)

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



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:

KITCHEN MAGICIAN

About

Groups

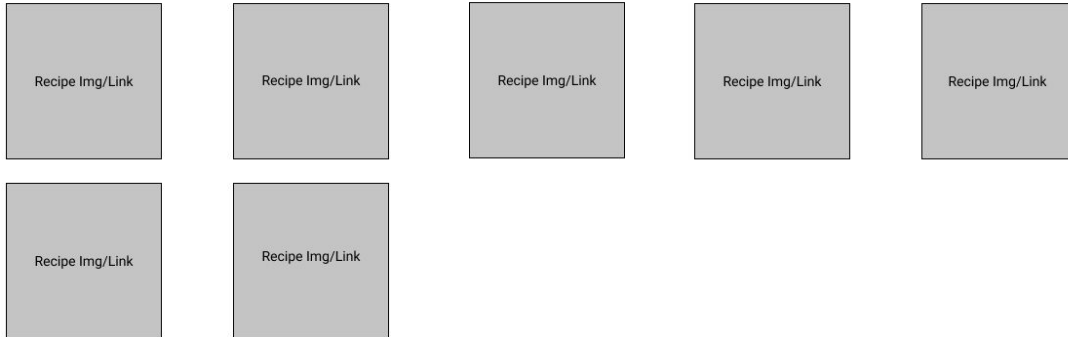
Search

Username



Username
user@email.com

Recipes



Favorites



Add Recipe

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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:

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

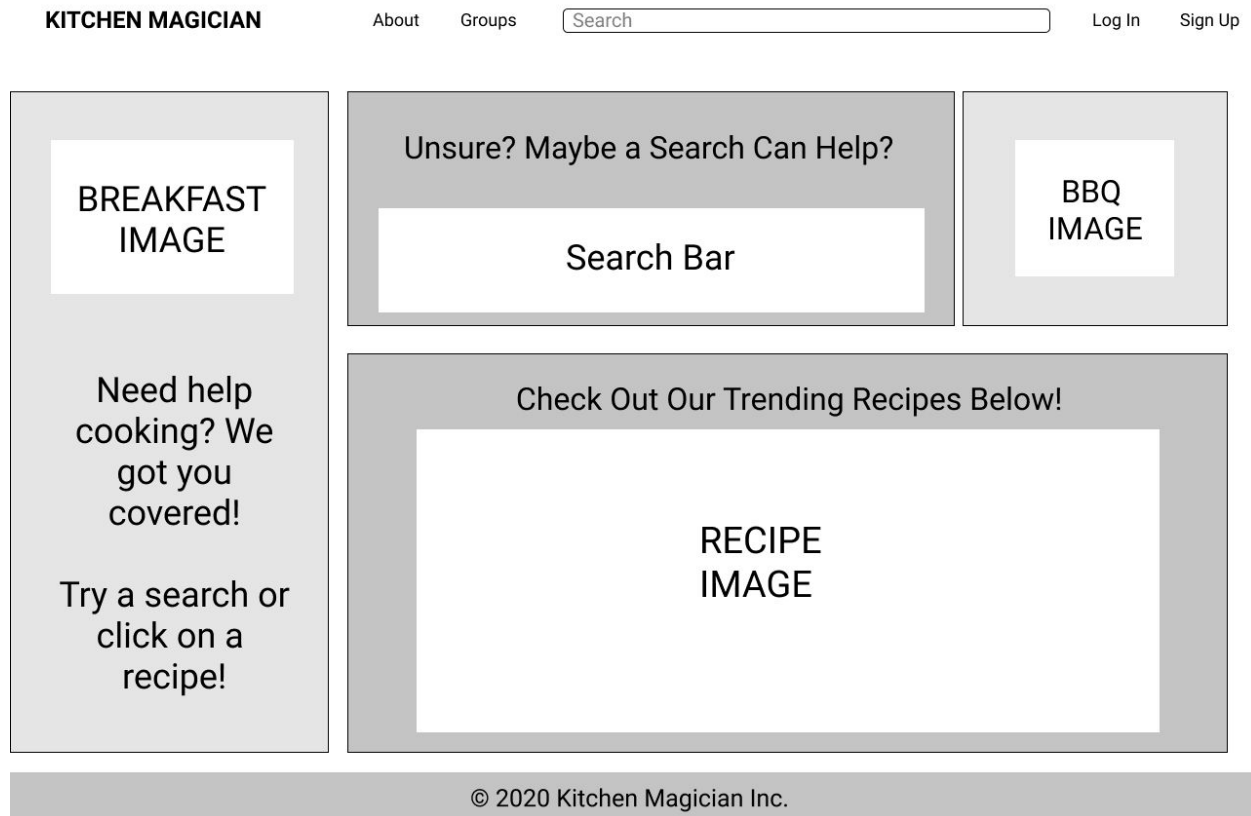
Submit Review

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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.

KITCHEN MAGICIAN

About

Groups

Log In

Sign Up

Find a Recipe

Courses

☐ Breakfast

☐ Lunch

☐ Dinner

Diets

☐ Keto

☐ Gluten Free

☐ Vegan

Occasions

☐ New Year's

☐ Thanksgiving

☐ Christmas

☐ Hanukkah

Example Result

Number of Favorites

Time:

Makes:

Diet:

Example Result

Number of Favorites

Time:

Makes:

Diet:

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

Recipe Page:

KITCHEN MAGICIAN

AboutGroups

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

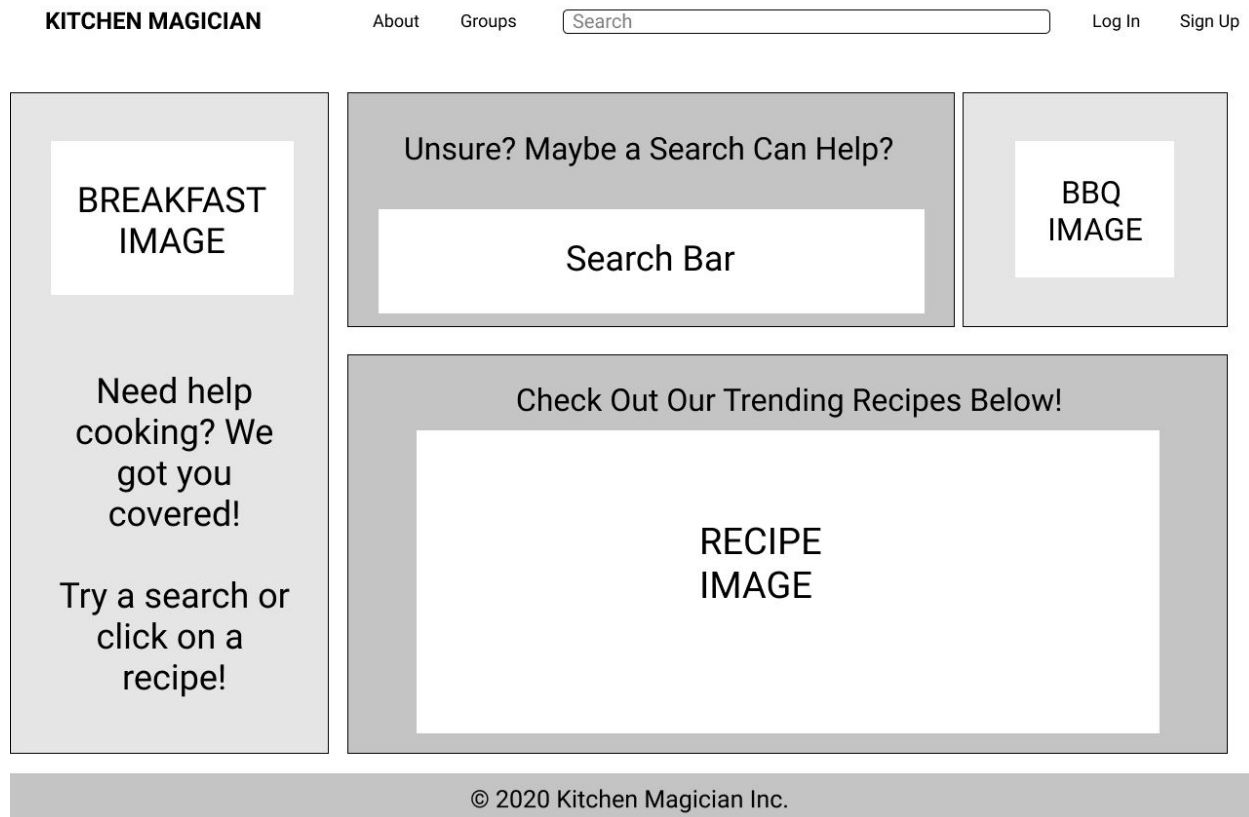
Submit Review

© 2020 Kitchen Magician Inc.

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:

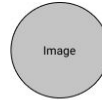
KITCHEN MAGICIAN

[About](#)

[Groups](#)

[Log In](#)

[Sign Up](#)



Welcome Back

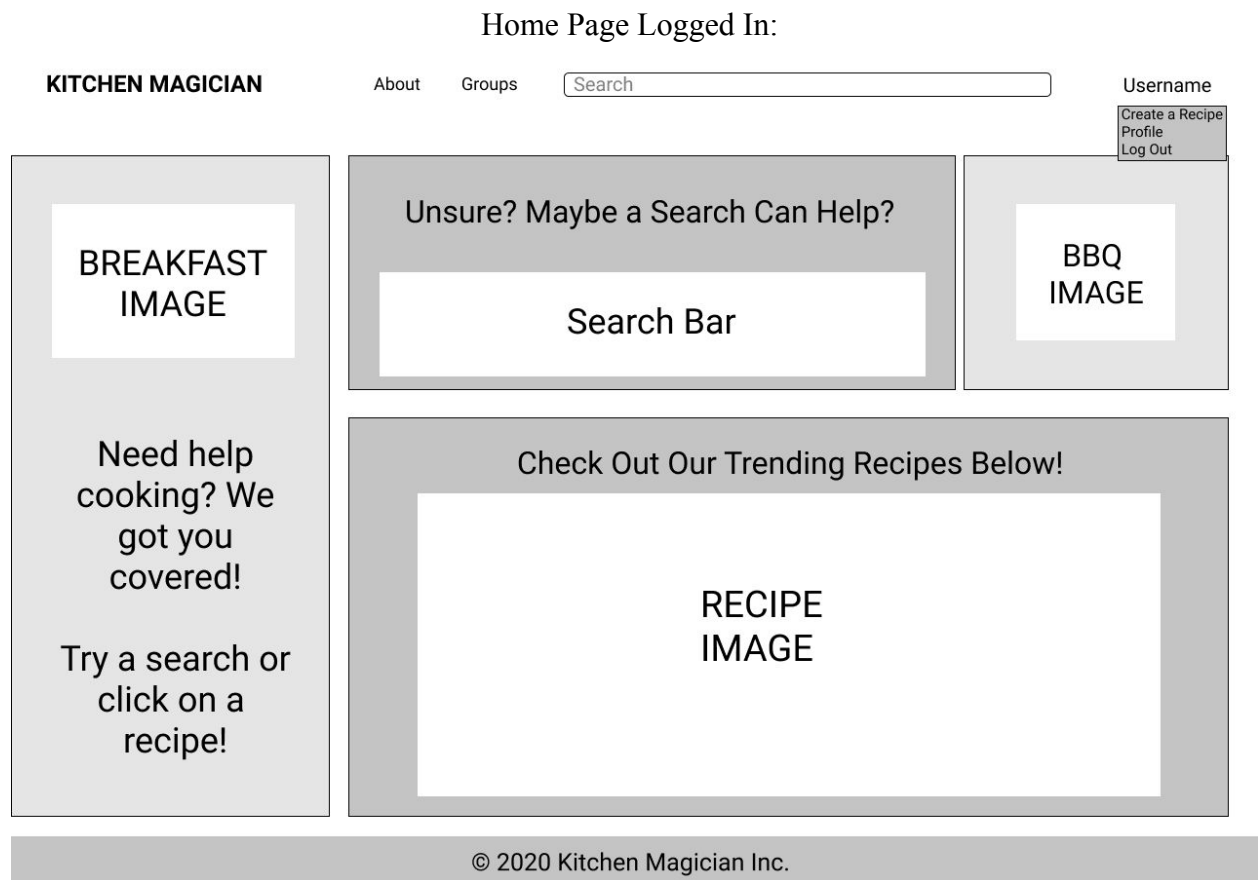
[Log In](#)

[Forgot Password?](#)

[Don't have an account? Sign Up](#)

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



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

Search/Results Page:

KITCHEN MAGICIAN

About

Groups

Search

Username

Find a Recipe

Courses

- ☐ Breakfast
- ☐ Lunch
- ☐ Dinner

Diets

- ☐ Keto
- ☐ Gluten Free
- ☐ Vegan

Occasions

- ☐ New Year's
- ☐ Thanksgiving
- ☐ Christmas
- ☐ Hanukkah

Example Result

Number of Favorites

Time:
Makes:
Diet:

Example Result

Number of Favorites

Time:
Makes:
Diet:

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

Recipe Page:

KITCHEN MAGICIAN

AboutGroups

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

Submit Review

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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:

KITCHEN MAGICIAN

AboutGroups

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

☐ Comment Author

Comment Date

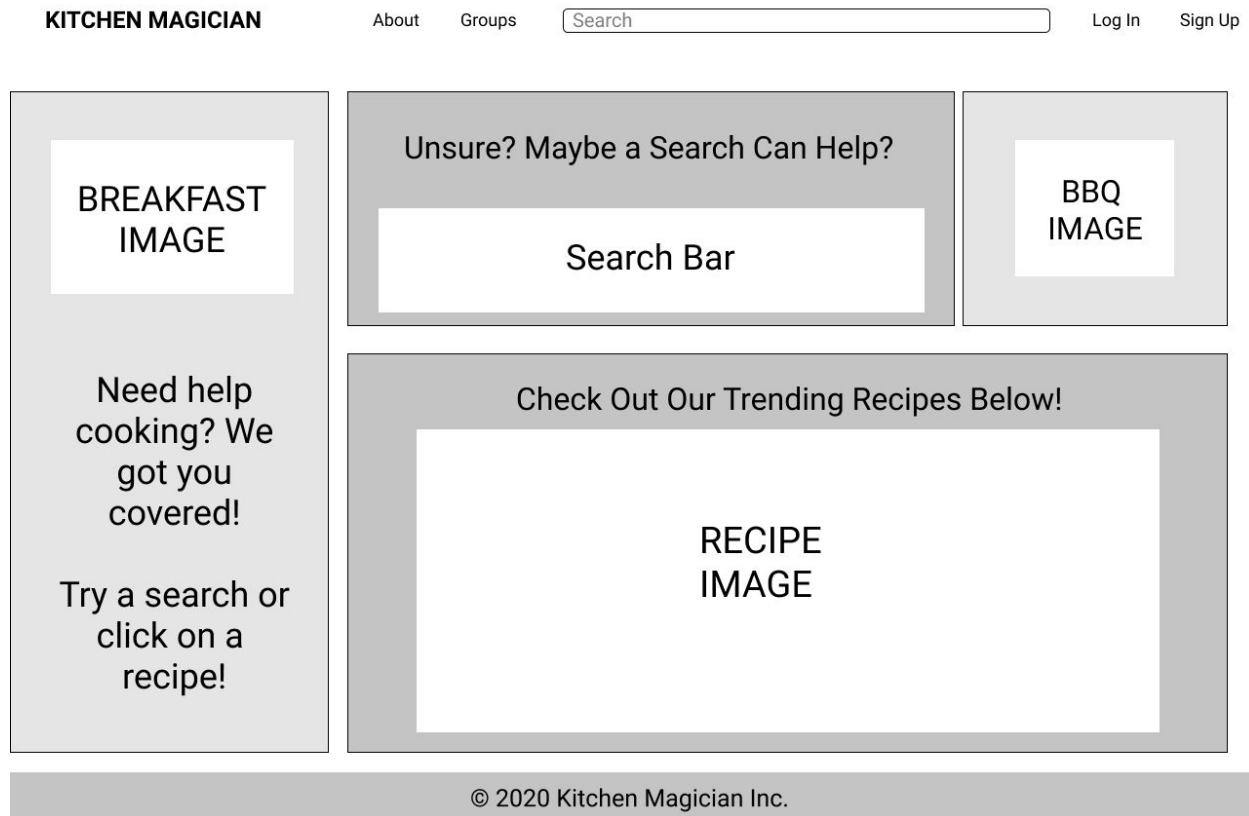
Comment Contents

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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:

KITCHEN MAGICIAN

AboutGroups

Log InSign Up

Image

Welcome Back

Username

Password

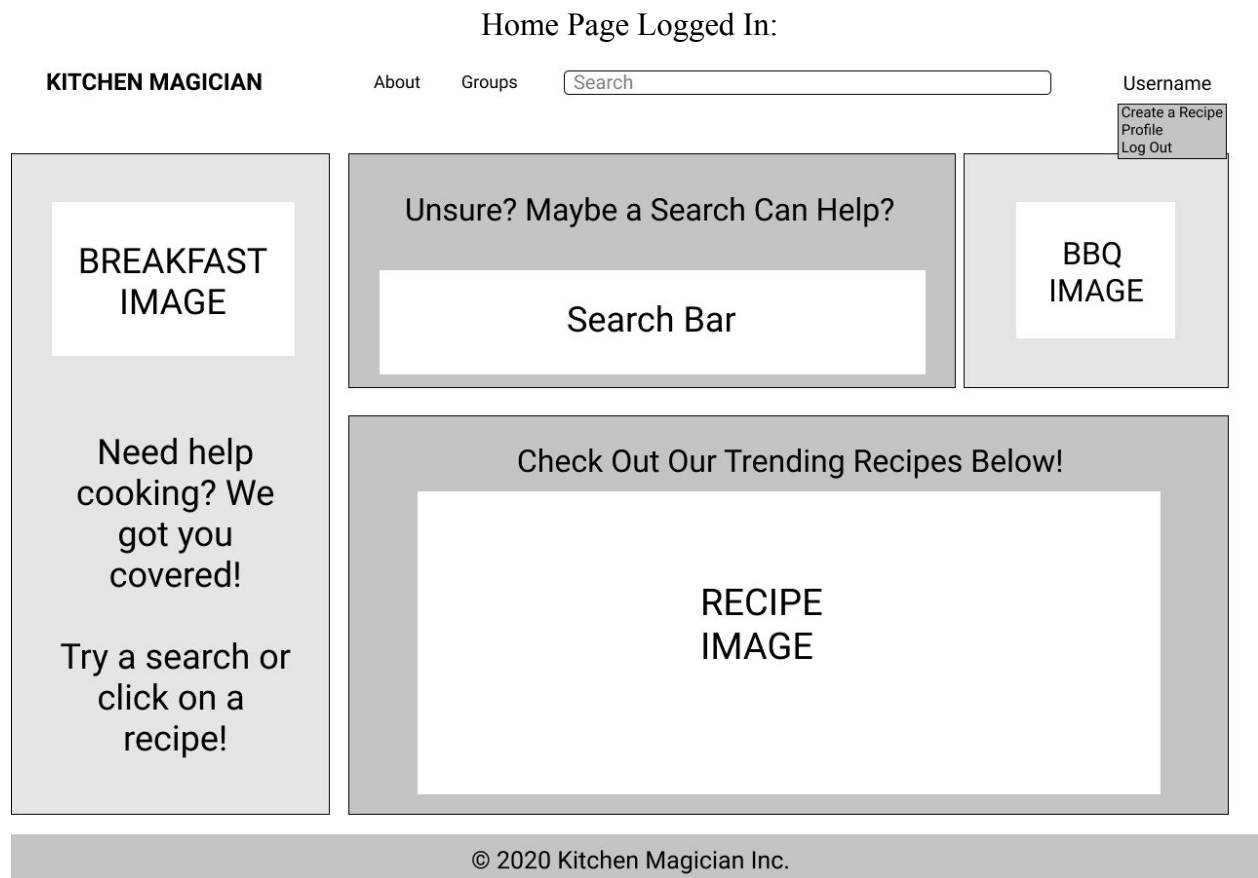
Log In

Forgot Password?

Don't have an account? Sign Up

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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.



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

Groups Page:

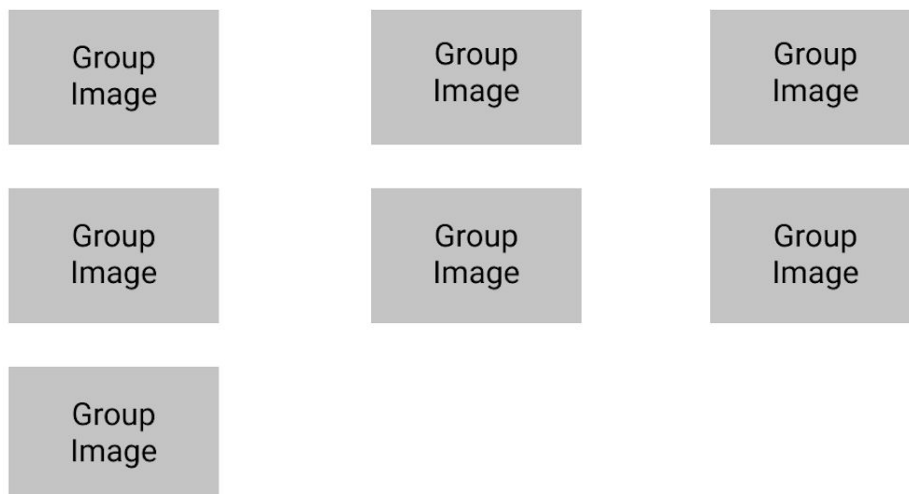
KITCHEN MAGICIAN

About

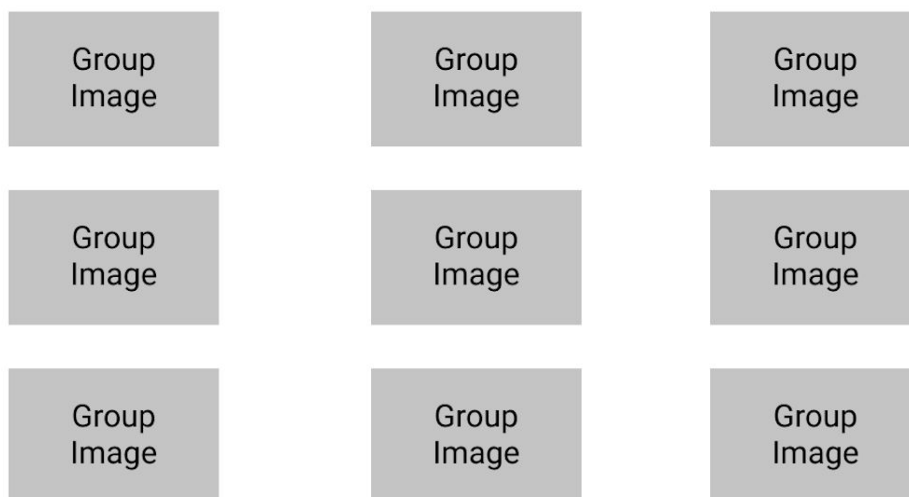
Groups

Username

Joined Groups



Available Groups



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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:

KITCHEN MAGICIAN

About

Groups

Search

Username

Group Forum
Image Logo

Group Forum Name

Forum Members:

-List of users in group-

Forum Discussion:

User Inputted Comment

Post

Comment Author Comment Date
Comment Contents

Comment Author Comment Date
Comment Contents

Comment Author Comment Date
Comment Contents

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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.

KITCHEN MAGICIAN

Groups

Search

Courses

☐ Breakfast

☐ Lunch

☐ Dinner

Diets

☐ Keto

☐ Gluten Free

☐ Vegan

Occasions

☐ New Year's

☐ Thanksgiving

☐ Christmas

☐ Hanukkah

Example Result

Number of Favorites

Time:

Makes:

Diet

Example Result

Number of Favorites

Time:

Makes:

Diet:

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 keyword 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_occasion_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

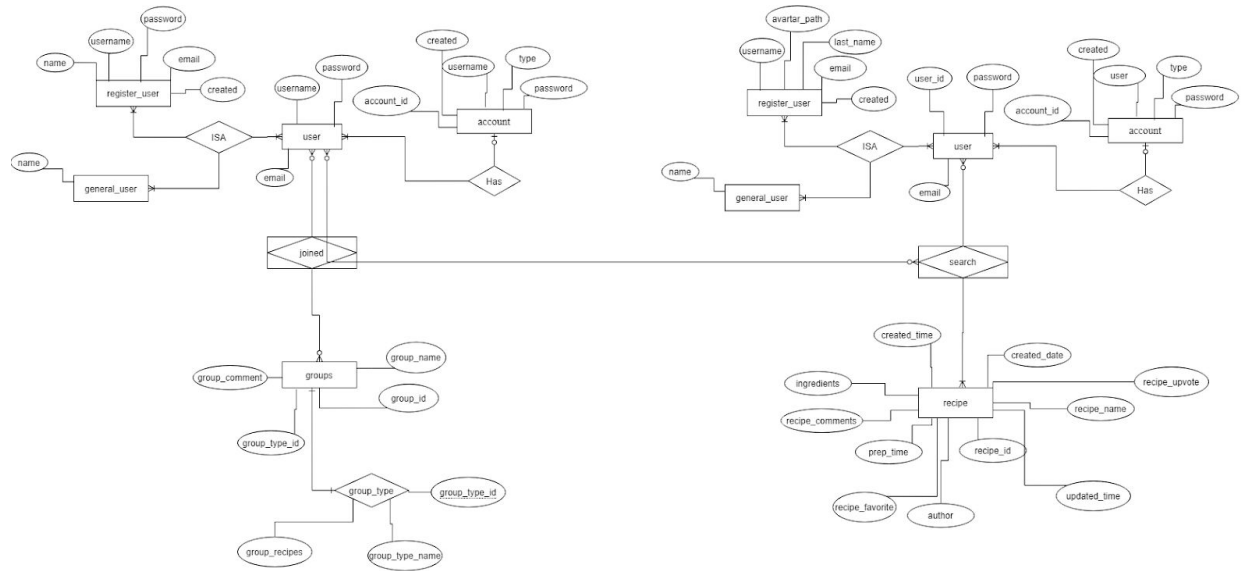
The attributes for Entity recipe_video are: id, recipe_id, video_link

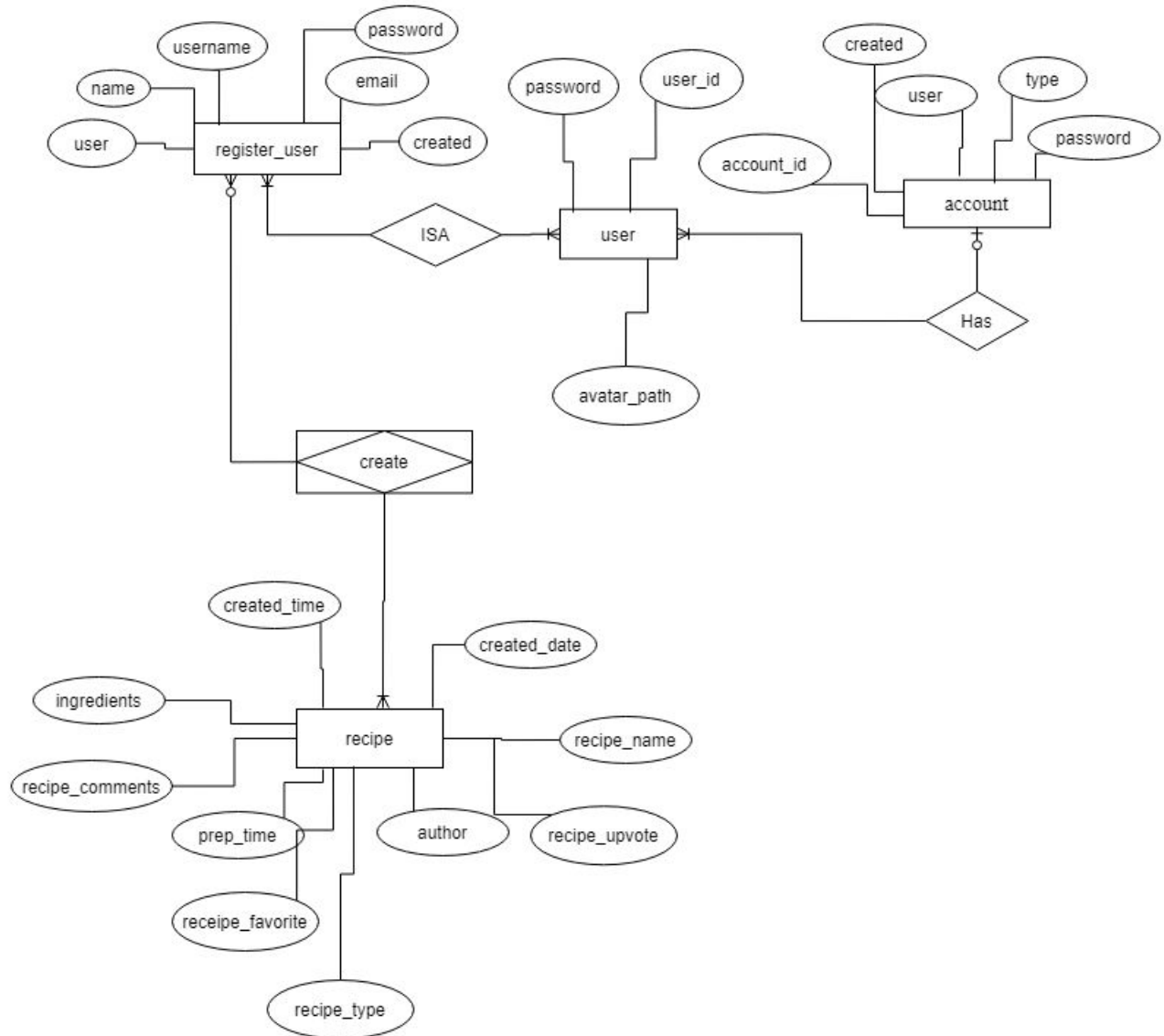
The attributes for Entity recipe_quantity_serve are: id, quantity_serve, quantity_serve_num.

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.

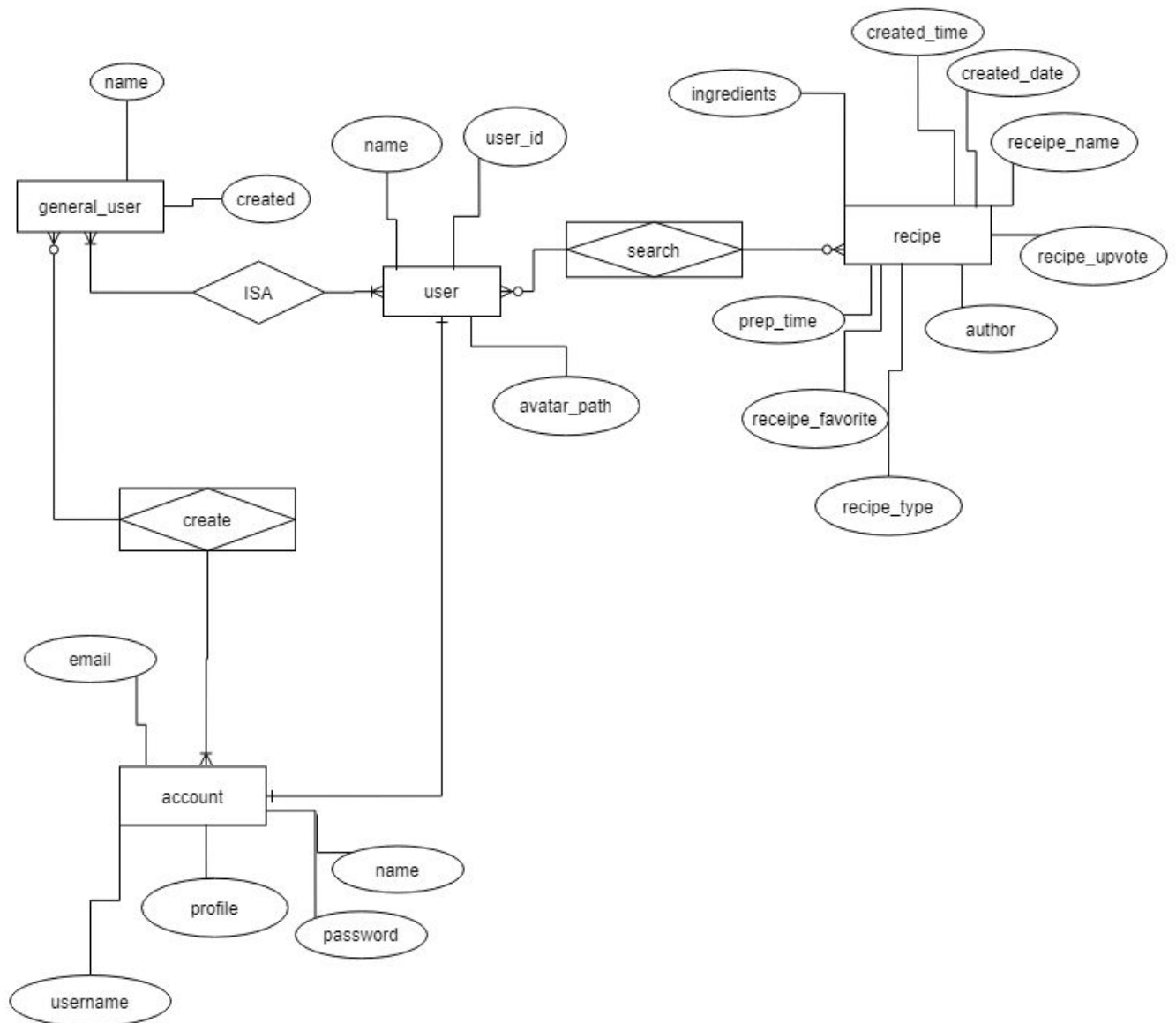
Part 3: Database Model

ERD Diagram:

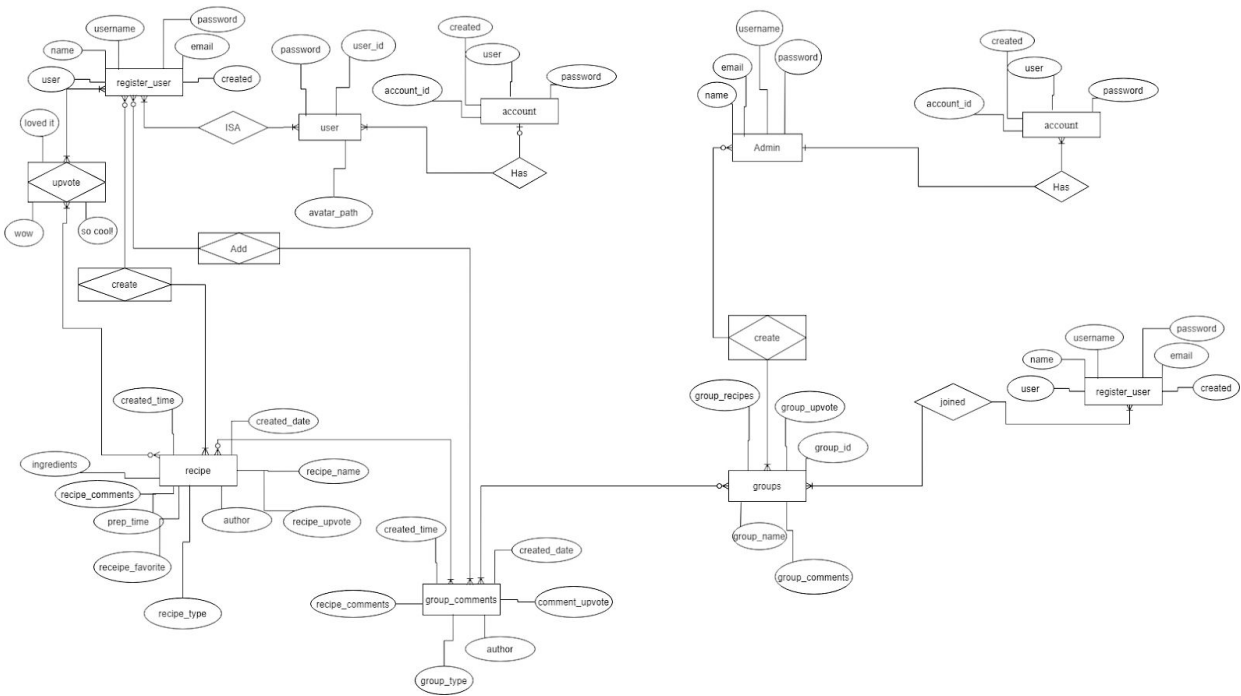




ERD Diagram cont.

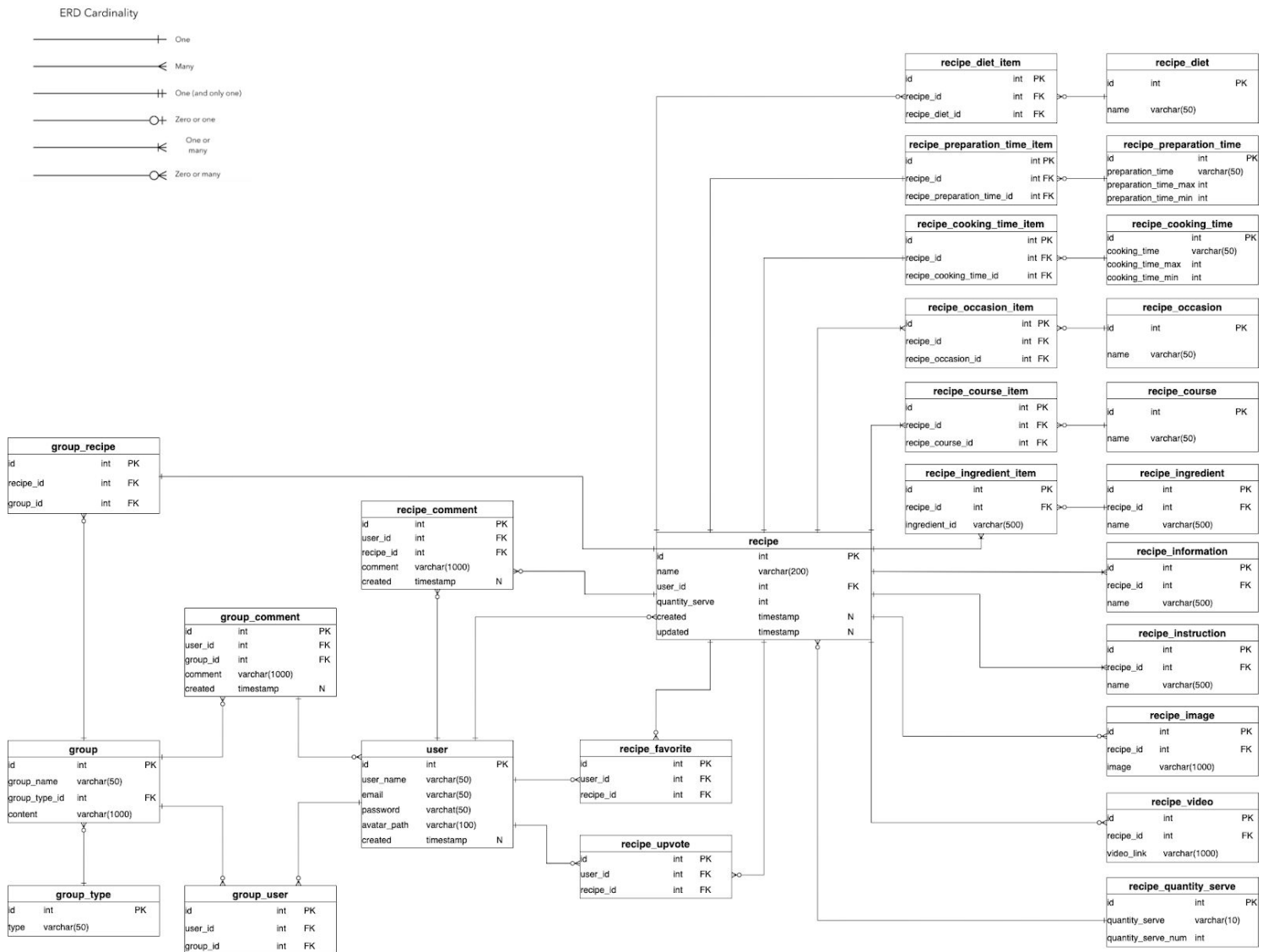


ERD Diagram cont.



ERD Diagram cont.

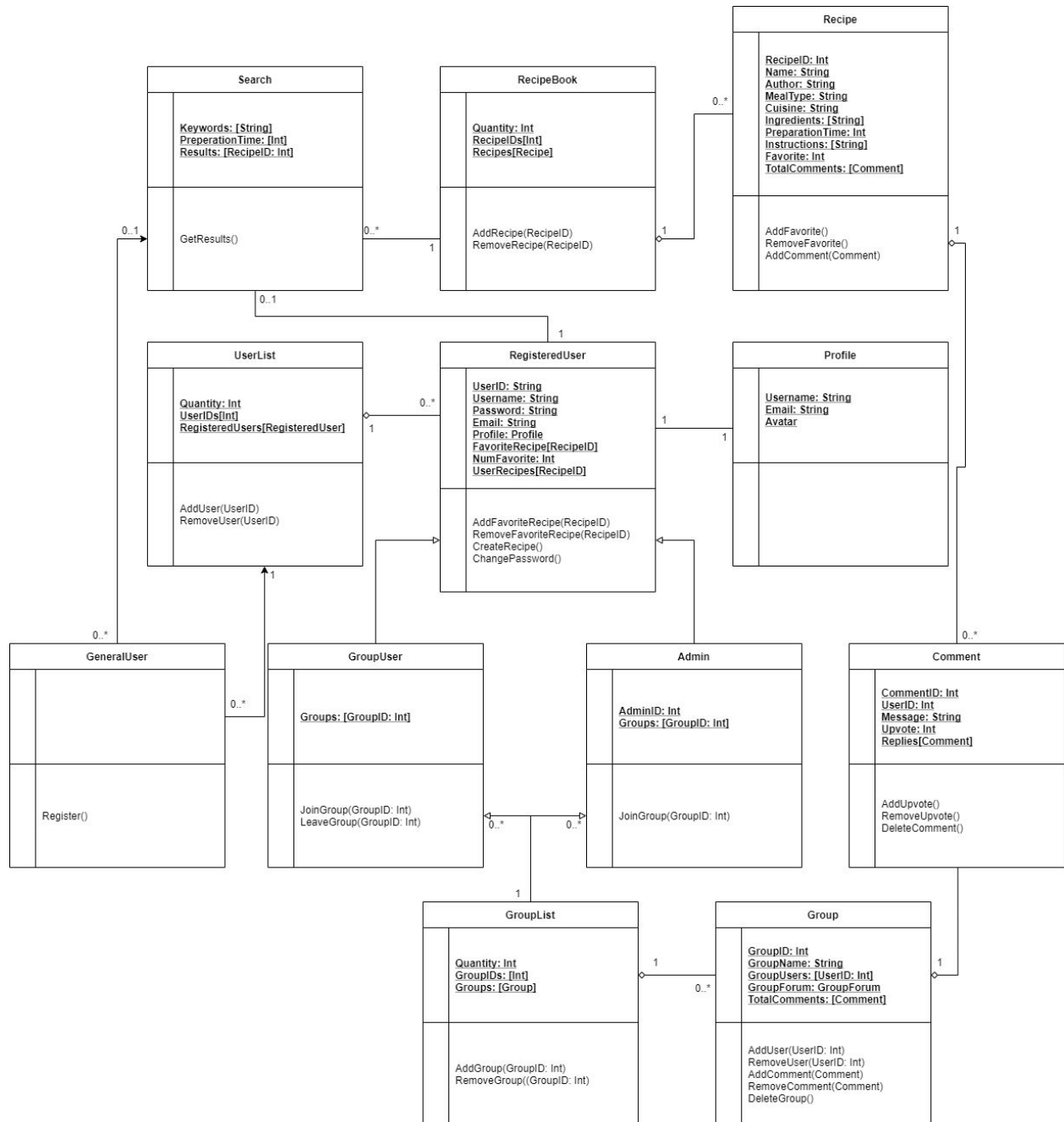
EER Diagram:



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