Kitchen
Magician

SW Engineering CSC648/848
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Team 01

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Milestone 1

History Table

Version	Date
M1V1	10/01/2020

Table of Contents:

Section 1: Executive Summary

What do you do when you are hungry but you are just too lazy 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 knows, 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.
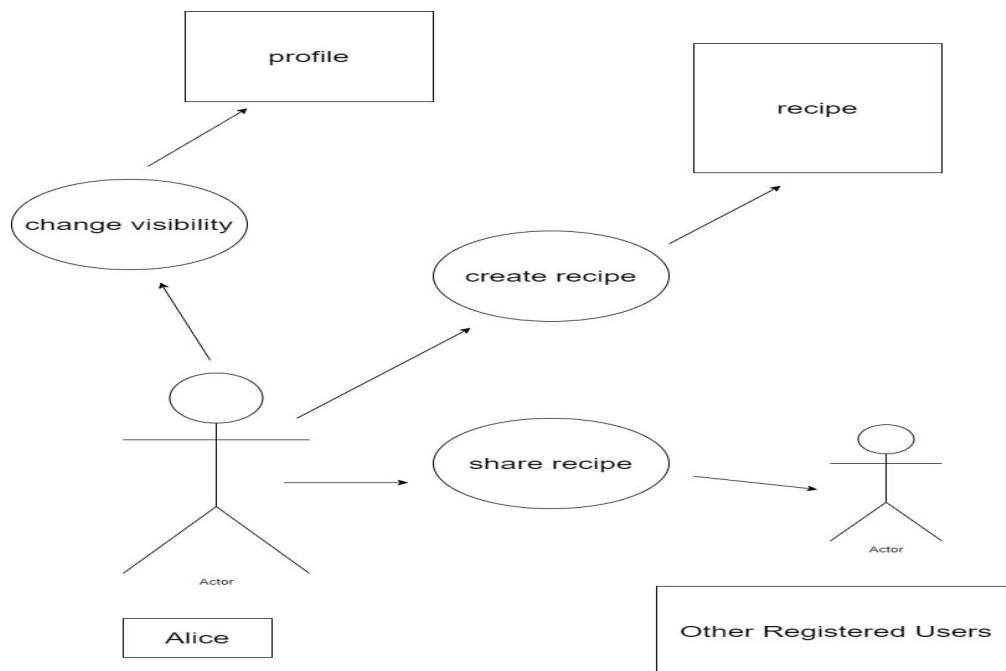
Use Case: Admin: Larry, General User: Jennifer, Registered User: Freida

  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. Freida is surprised at the maturity of the comment since she was required to verify that she was at least 18 years old and 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.
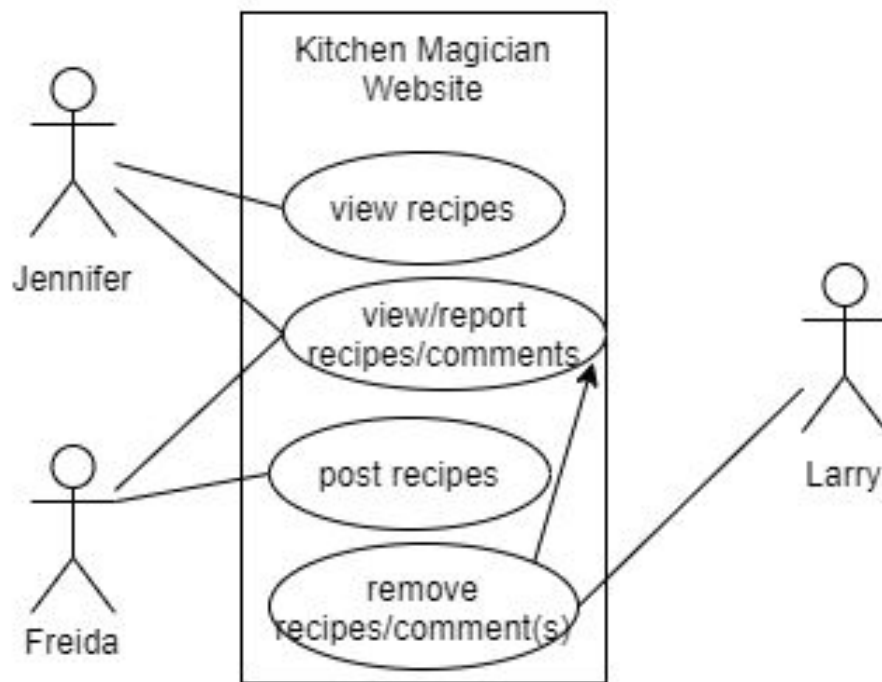
Use Case: Admin: Bear, Registered User: Penguin

      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 featured 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 was 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.
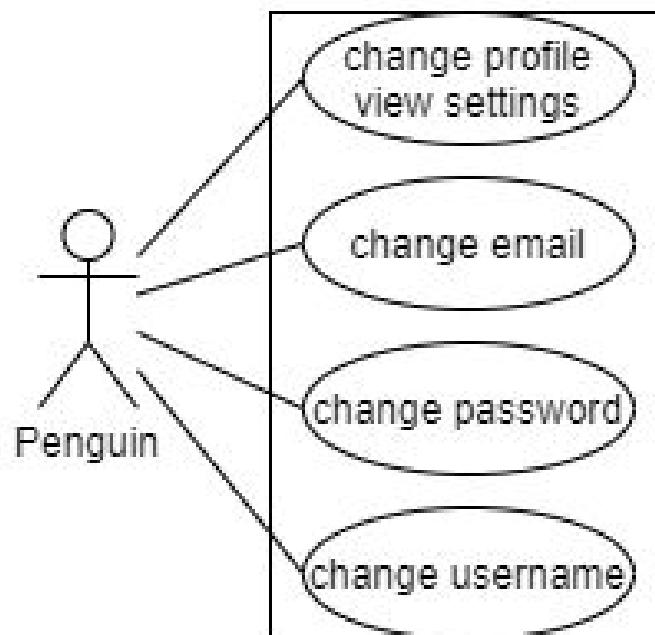
Use Case: General User: Mary

   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. There is a section of popular seasonal dinner recipes. 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 upvote 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 navigation bar aids Mary in finding whatever she needs quickly. 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.
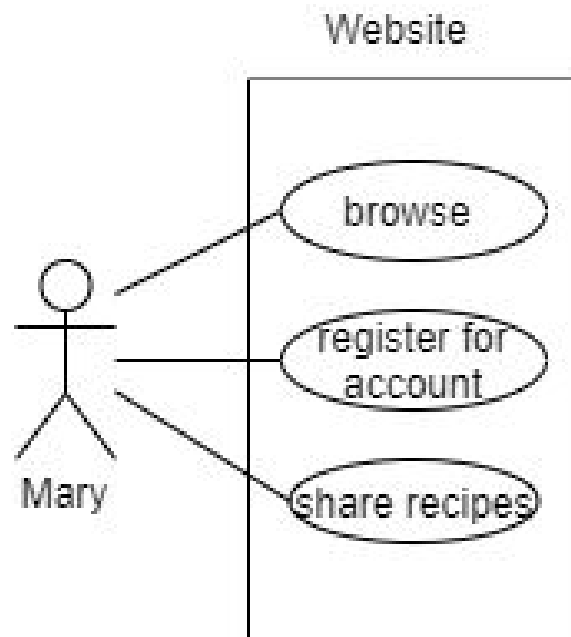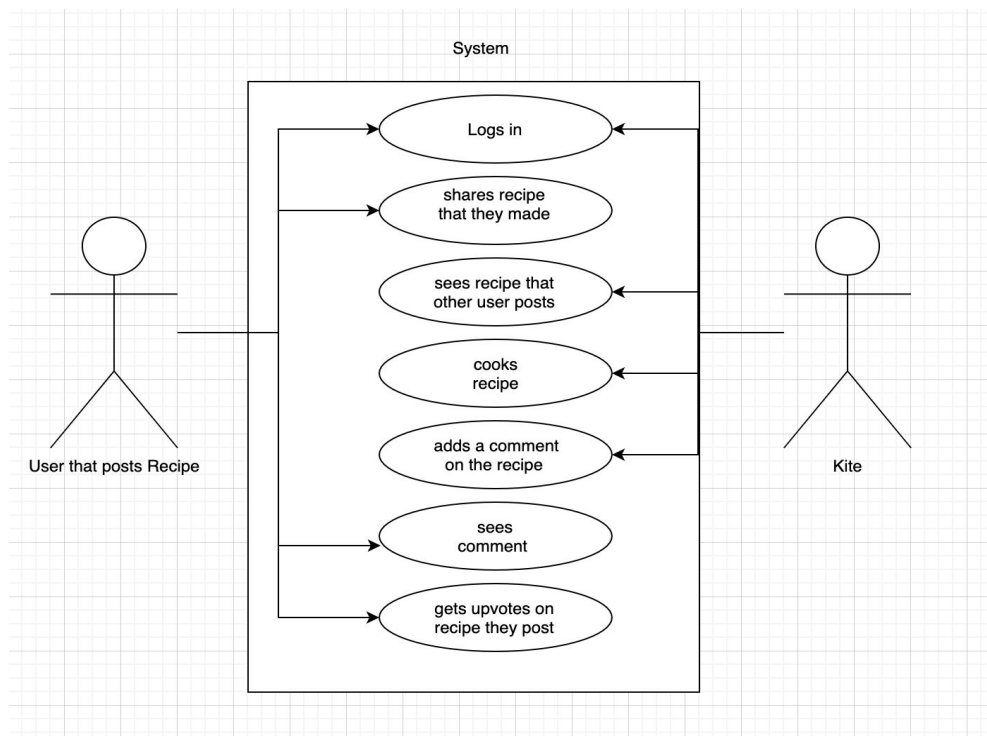
Use Case:

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, User who posts the recipe

      Andrew, who posted the recipe, logs on 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 upvote his recipes he continues to add them so other users are knowledgeable of healthy eating. He notices a user Kite that comments on the recipe and writes how it 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. After inputting keywords and clicking search, there are more than 50 related receipts pop up. She cannot find a satisfied one after a thorough browse. All of a sudden, she realizes she has saved an excellent receipt before, so she logs in and views her favorite recipes and access them. She is very glad that she gets the one she looks for. On the recipe's page she notices that it has various tags like "turkey", "Thanksgiving", and "Fall". Emma clicks the tag "Thanksgiving" and more recipes containing the same tag popped up for her to see.

```
           ○
          /|\         ( Searches recipes )
         / | \
        /  |  \        (      Login      )
           |
          / \          ( Sees favorite recipes )
         /   \
        /     \        ( clicks the desired recipe )
        Emma
```
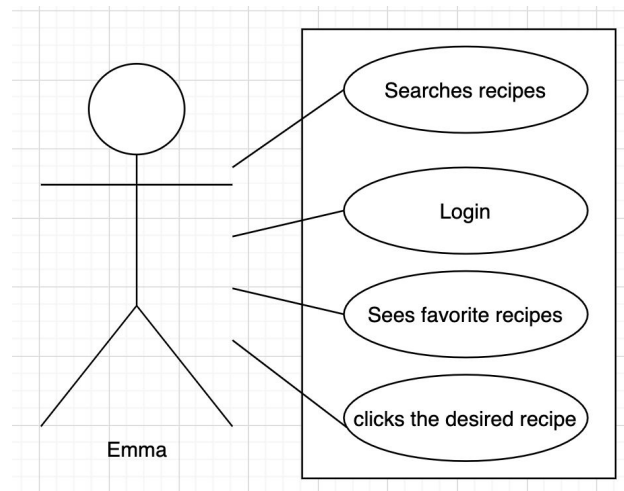
Use Cases: Inebriated or Intoxicated User: Jim

      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 successfully finds a recipe and makes it, thoroughly enjoying his meal.
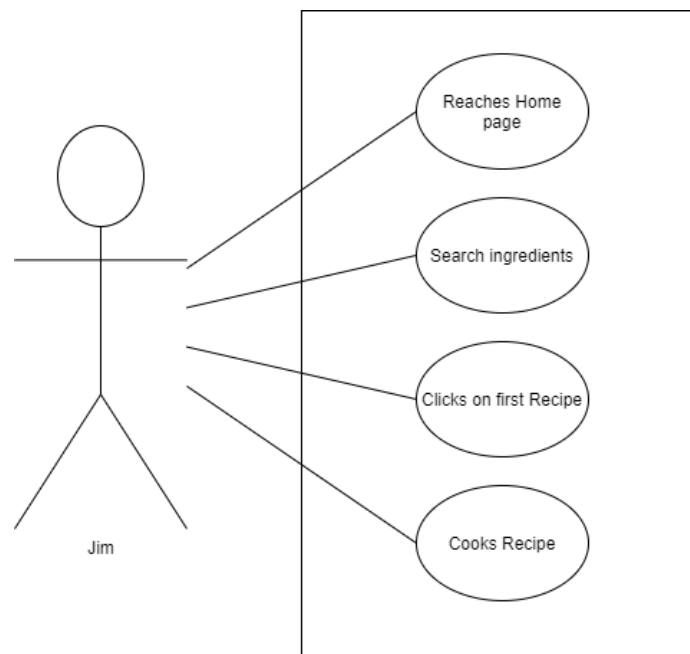
Use Cases: General User: Pamela

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 6 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 6. 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 6. When she is done cooking, she would like to rate the recipes on whether it works well for her or not. Pamela tries logging into her account, but can't remember her password. She is able to reset her password on the login page and successfully logs into her account.
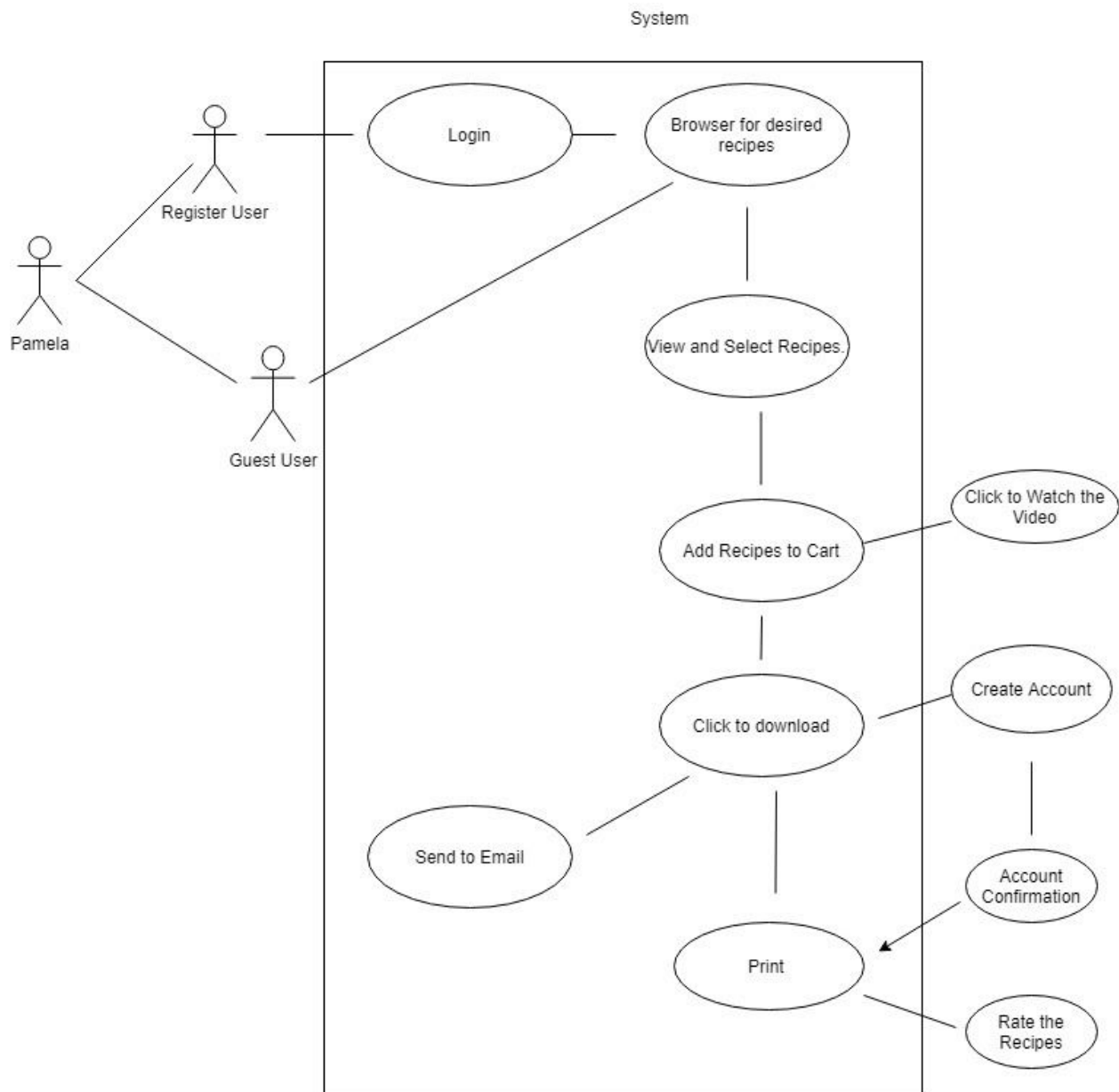
Section 3: List of Main Data Items and Entities

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, edit own user profile, and join groups. Needs to login/register.

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

Profile Page: 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.

Recipes: Ingredients, description, instructions, picture (0 or more), video (0 or 1)

Ratings: Upvote or downvote both recipes and comments

Comments: Comments for recipes 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.

Groups: 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 Users:

1. General Users shall be able to register for an account.
2. General users shall be able to register for an account if they are of age, defined as 18 years old.
3. General users shall register for an account using a registration form.
4. General users shall provide an email when registering for an account.
5. General users shall choose a screen name during registration
6. General users shall verify that the email used to register for the account is valid via an email sent by us.
7. General users shall enter the password twice when registering, and they shall verify that the two passwords match.
8. General users shall agree to the privacy agreement when registering for an account.
9. General users shall agree to the code of conduct when registering for an account.
10. General users shall see a navigation bar on all pages.
11. General users shall see a navigation button for Home on all pages.
12. General users shall see a navigation button for Back on all pages
13. General users shall see a navigation button for the list of recipes on all pages.
14. General users shall see a navigation button for the trending page on all pages.
15. General users shall see a navigation button for the search page on all pages.
16. General users shall see a counter for the number of registered users on the navigation bar on all pages
17. General Users shall be able to search for recipes at the search page.
18. General Users shall be able to view recipes.
19. General Users shall be able to view Registered Users and Admin profile pages.

Registered Users:

20. Registered users shall be able to log in with username and password.
21. Registered users shall be able to log out.
22. Registered users shall have a profile page.
23. Registered users shall be able to change visibility of their profile page, except their username.
24. Registered users shall be able to change their password at the profile page
25. Registered users shall be able to reset account password at the profile page
26. Registered users shall be able to change the avatar for their profile page from the image database.
27. Registered users shall have an attribute for time of account creation at the profile page.
28. Registered users shall see a navigation bar on all pages.
29. Registered users shall see a navigation button for Home on all pages.

30. Registered users shall see a navigation button for Back on all pages.
31. Registered users shall see a navigation button for the Profile Page on all pages.
32. Registered users shall see a navigation button for the list of recipes on all pages.
33. Registered users shall see a navigation button for the trending page on all pages.
34. Registered users shall see a navigation button for the search page on all pages.
35. Registered users shall see a navigation button for the groups page on all pages.
36. Registered users shall see a counter for the number of registered users on the navigation bar on all pages
37. Registered Users shall be able to search for recipes at the search page.
38. Registered Users shall be able to view recipes.
39. Registered users shall be able to publish their own recipes.
40. Registered users shall be able to change contents of their own recipes.
41. Registered users shall be able to remove their own recipes.
42. Registered users shall have a counter for their number of public recipes on their profile page.
43. Registered users shall have a counter for their number of private recipes on their profile page.
44. Registered users shall be able to like any public recipe.
45. Registered users shall be able dislike any public recipe.
46. Registered users shall be able to add a comment on any public recipe.
47. Registered users shall be able to remove their own comment on any public recipe.
48. Registered users shall be able to join a group at the groups page
49. Registered users shall be able to join up to ten groups.
50. Registered users who are a part of a group shall have access to that groups specific group page.
51. Registered users who are a part of a group shall be able to comment on the specific group page.

Admin:
52. Admins shall be able to log in with username and password.
53. Admins shall be able to log out.
54. Admins shall have a profile page.
55. Admins shall be able to change visibility of their profile page, except their username.
56. Admins shall be able to change their password at the profile page
57. Admins shall be able to reset account password at the profile page
58. Admins shall be able to change the avatar for their profile page from the image database.
59. Admins shall have an attribute for time of account creation at the profile page.
60. Admins users shall see a navigation bar on all pages.
61. Admins shall see a navigation button for Home on all pages.
62. Admins shall see a navigation button for Back on all pages.

63. Admins shall see a navigation button for the Profile Page on all pages.
64. Admins shall see a navigation button for the trending page on all pages.
65. Admins shall see a navigation button for the list of recipes on all pages.
66. Admins shall see a navigation button for the search page on all pages.
67. Admins shall see a navigation button for the groups page on all pages.
68. Admins shall see a counter for the number of registered users on the navigation bar on all pages
69. Admins shall be able to search for recipes.
70. Admins shall be able to view recipes.
71. Admins shall be able to publish their own recipes.
72. Admins shall be able to change contents of their own recipes.
73. Admins shall be able to remove any public recipes.
74. Admins shall have a counter for their number of public recipes on their profile page.
75. Admins shall have a counter for their number of private recipes on their profile page.
76. Admins shall be able to like any public recipe.
77. Admins shall be able dislike any public recipe.
78. Admins shall be able to add a comment on any public recipe.
79. Admins shall be able to remove any comment on any public recipe.
80. Admins shall be a part of every available group.
81. Admins shall have access to every group's specific group page.
82. Admins shall be able to comment on every group's specific group page.
83. Admins shall be able to remove comments on every group's specific group page.
84. Admin users shall be able to delete any registered account.

Recipes:
85. A recipe shall be made private or public.
86. A recipe shall have a title.
87. A recipe shall have one or more recipe categories to be added for search.
88. A recipe shall have one or more keywords to be added for search.
89. A recipe shall have serving size information to be added for search.
90. A recipe shall have serving size information to be added for search.
91. A recipe shall have estimated costs to be added for search.
92. A recipe shall have estimated time required to finish the recipe to be added for search.
93. A recipe shall have one or more ingredients to be added for search.
94. A recipe shall have one or more required tools to be added for search.
95. A recipe shall have one or more directions on how to finish the recipe.
96. A recipe should add zero or more photos.
97. A recipe should add zero or only one video.
98. Only public recipes are shown in any recipe search.

Search Page:

99. Search page shall be able to search for recipes based on username.
100. Search page shall be able to search for recipes based on recipe keywords.
101. Search page shall be able to search for recipes based on recipe categories.
102. Search page shall be able to search for recipes based on recipe time-to-finish.
103. Search page shall be able to search for recipes based on recipe ingredients.
104. Search page shall be able to search for recipes based on recipe budget.
105. Search page shall be able to search for recipes based on tools required.
106. Search page shall be able to search for recipes based on serving size.
107. Search page shall be able to search for recipes that include photos.
108. Search page shall be able to search for recipes that include videos

Section 5: List of Non-functional requirements

System requirements: describe the system requirements (architecture, system services, networks, platforms etc.)

1. The application should have one unified system for search, with all fields searchable.
2. The application must provide the ability to specify multiple operands and operators for a search, and must provide an ability to specify operands between search parameters.
3. The application registration interface must be keyboard accessible. Specifically, users must be able to tab to the next entry field.

Performance requirements: describe system performance (speed, accuracy, latency, delay, bandwidth etc.)

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.

Storage, security, environmental 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.

Marketing, legal requirements (logos, branding, licensing)

1. The logo should never be sized any smaller than the logos of other organizations appearing alongside it.
2. Each page shall have an official logo in the upper left corner.
3. The site must return to the home page if users click the upper left official logo on any page.
4. Each page shall have media logos in the bottom footer.
5. The site should place a copyright notice in the bottom footer.
6. To ensure legibility of KitchenMagician branding, never use the logos at sizes smaller than 24px.
7. On the registration page, the application must offer a document for Individuals read and agree to comply with relevant Kitchen Magician policies, state and federal law, and any relevant licensing agreements relating to intellectual property.
8. Pages may not contain commercial sponsorships or advertisements unless approved by administration.

9. When referencing KitchenMagician in text as a combined word, use camel case, with no space between "Kitchen" and "Magician".
10. The site always reproduces the logo at a size that is clear and legible.
11. All personal information users supply is protected according to the federal government's Privacy Act.
12. The application must comply with California Consumer Privacy Act.
13. The application must comply with California Online Privacy Protection Act 2003 (CalOPPA).
14. Personalization and data collection processes should comply with the General Data Protection Regulation (GDPR).
15. The website contains links to other websites and it cannot be responsible for the privacy practises of content of other websites.

Content (size, formats...)
1. All pages and files must be current and accurate
2. The application will support the appearance of a component being determined by the type of page on which the component appears.
3. The application will support the appearance of a component being determined by the location on the page on which the component appears.
4. The application will support the appearance of a component being determined by the content of the component.
5. The application will support the appearance of a component being determined by the type of the component.
6. The application must be able to accommodate any image types, and images must be publishable.
7. The application must be able to accommodate any image types, and images must be browsable.
8. Images must include alt text.
9. Image size in no time shall exceed 2 Mbytes
10. Videos must be captioned and may also include a transcript.
11. The site ensures audio and video accessible.
12. The date format for recipes shall be as follows: Month.Date, Year.
13. The date format for comments shall be as follows: Month.Date, Year.

Privacy (what data is collected, how is it used...)
1. The company is not responsible for images, videos, or any resources posted by users without permission of the copyright holder.
2. The application collects anonymous data from every visitor of the Website to monitor traffic and fix bugs.

3. 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.
4. The application must support authorized users to be able to access, update or delete any comments, receipts, or users.
5. The company will collect users' name, email, address and birthdates only if users agree to comply with the company's policy.
6. The company will collect information on users' search history, saved and viewed recipes.
7. The company shall not share personal information with any third parties.
8. The company uses all of the information users provide voluntarily in order to make users' visits on the site possible.
9. The company collects information only to add customized elements to the site or to plan its content more appropriately, based on user interests.
10. The site will allow users to delete their own accounts via emailing the requests.

Coding Standards
- **File encoding**
  All documentation source files must be in UTF-8 encoding to allow special characters, including em-dash (—) and tree diagram characters.
- **English Syntax**
  Use proper spelling, grammar, and 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.

- **Avoid using a coding style that is too difficult to understand**
  Code should be easily understandable. The complex code makes maintenance and debugging difficult and expensive.
- **Code should be well documented**
  The code should be properly commented for understanding easily. Comments regarding the statements increase the understandability of the code.
- **Length of functions should not be very large**
  Lengthy functions are very difficult to understand. That's why functions should be small enough to carry out small work and lengthy functions 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 site must ensure that styles and naming for interactive elements are used consistently.
6. The site provides sufficient contrast between foreground and background.
7. The site provides informative, unique page titles.
8. The site uses headings to convey meaning and structure.
9. The site makes link text meaningful.
10. The site writes meaningful text alternatives for images.
11. The site creates transcripts and captions for multimedia.
12. The site provides clear instructions.
13. Keep content clear and concise.
14. The site must ensure that interactive elements are easy to identify.
15. The site provides clear and consistent navigation options.
16. The site ensures that form elements include clearly associated labels
17. The site provides easily identifiable feedback.
18. The site uses headings and spacing to group related content.
19. The site style uses rem for font-size.
20. The site style uses em for padding and margin.
21. The site style uses em or percentage for widths.
22. The site 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:
     a. Python standard library
     b. Third party packages

    c. 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 website gives an opportunity to the user to choose what they want from the homepage. Whether it's from fall or winter it's ability to filter different recipes on the occasion of the season is great.	The website provides a great approach to people who want to begin cooking	The website offers a great step by step on their recipes. They also show a images of the cuisine and how it should look	The website offers a suggestion button that shows a variety of recipes a user can do when they visit the website. This gets the user to begin the cooking process quickly	The website showcases popular and highly rated recipes every week. We give the opportunity to foodies and chefs alike to bring their best recipes and share with the community. If you don't like the recipes you see, we allow for users to join groups with other users where they will get an in depth look into what specific foods 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 related	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 videos	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

	to it	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:
Deep Dive into Kitchen Magician's Excellence:

Kitchen Magician looks to simplify the way of cooking. Kitchen Magician will be compared to many cooking websites, but it is far from equal. At Kitchen Magician we believe in the superiority of simplicity. What we mean by this is that Kitchen Magician will have a homepage that contains less clutter and more information. We want to add a welcoming homepage that attracts the user. For example we hope to implement a feature that will allow users to join groups so that they can share their recipes amongst each other. We see that most of the time many users would prefer to begin by a simple search and then they venture off into related posts. Our feature of grouping users with other users who share the same diet will eliminate the users being forced to dig deep into our website and waste an unnecessary amount of time. This makes it so that when a user logs in they are quickly able to direct themselves to a group that they prefer and see recipes that they best prefer to eat. Some people have food allergies so this will also help them find recipes that cater to them. This is why we want to give an opportunity for the user to decide which group suits them. With this feature we also want to give the users who give us their best recipes to be noticed! This is why we want to add a feature that will show us what is trending in terms of recipe or even chef! When a recipe is trending it lets users look into this popular dish and even venture deeper to see what other recipes are

available and vice versa for the trending chef. Again, our mission is simple, to bring cooks and foodies alike together to join a plethora of foods they can all enjoy. A feature we will break our own rule in simplicity is our recipe description. This is where we will shine. The information we hope to give someone will be as descriptive as possible. We don't want users to second guess a step while they read through the recipe of their masterpiece of a dish. Kitchen Magician will also allow users and non users to access the information to recipes alike. Information is valuable and when we have to eat, we have to eat! As for the homepage, our competitors love to place Ads in the most inconvenient places. If possible we would like to remove ads for the time being. Another thing we feel we have the upper hand in, is that the websites we currently compete with feel dull and outdated. The way we can commit to a cleaner and modern look is by combining our experiences and running trials between each other on what users really care about when they enter our page. Anything that seems to take up space will be removed. Overall our website aims for a clean and modern look while giving the user full control in what they want in front of them. Just like the Magician in our name, we will make our best recipes appear before your very eyes!

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	Python3.7+
Front-Side Language	HTML, CSS, JavaScript
Supported Browsers	Chrome, Firefox
Web Framework	React, Django
API Test	Postman
IDE	VS Code
Web Analytics	GTmetrix
SSL Cert	Certbot

Section 8: Team

1. Nicole Pang (Team Lead):
   a. Executive Summary, Use cases, 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
2. Jeff Cheng (Frontend Lead):
   a. Section 4, executive summary, use cases, participate/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, section 5, participate/attend team meetings, applied feedback to individual and shared sections
4. Paul Asu (Github Master):
   a. Section 5, executive summary, use cases, 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, 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, assigned individual sections to individual and shared sections
6. Kevin Ortiz (Undefined):
   a. Section 6, executive summary, use cases, 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**