Lauren Ryan
Matthew Borowsky
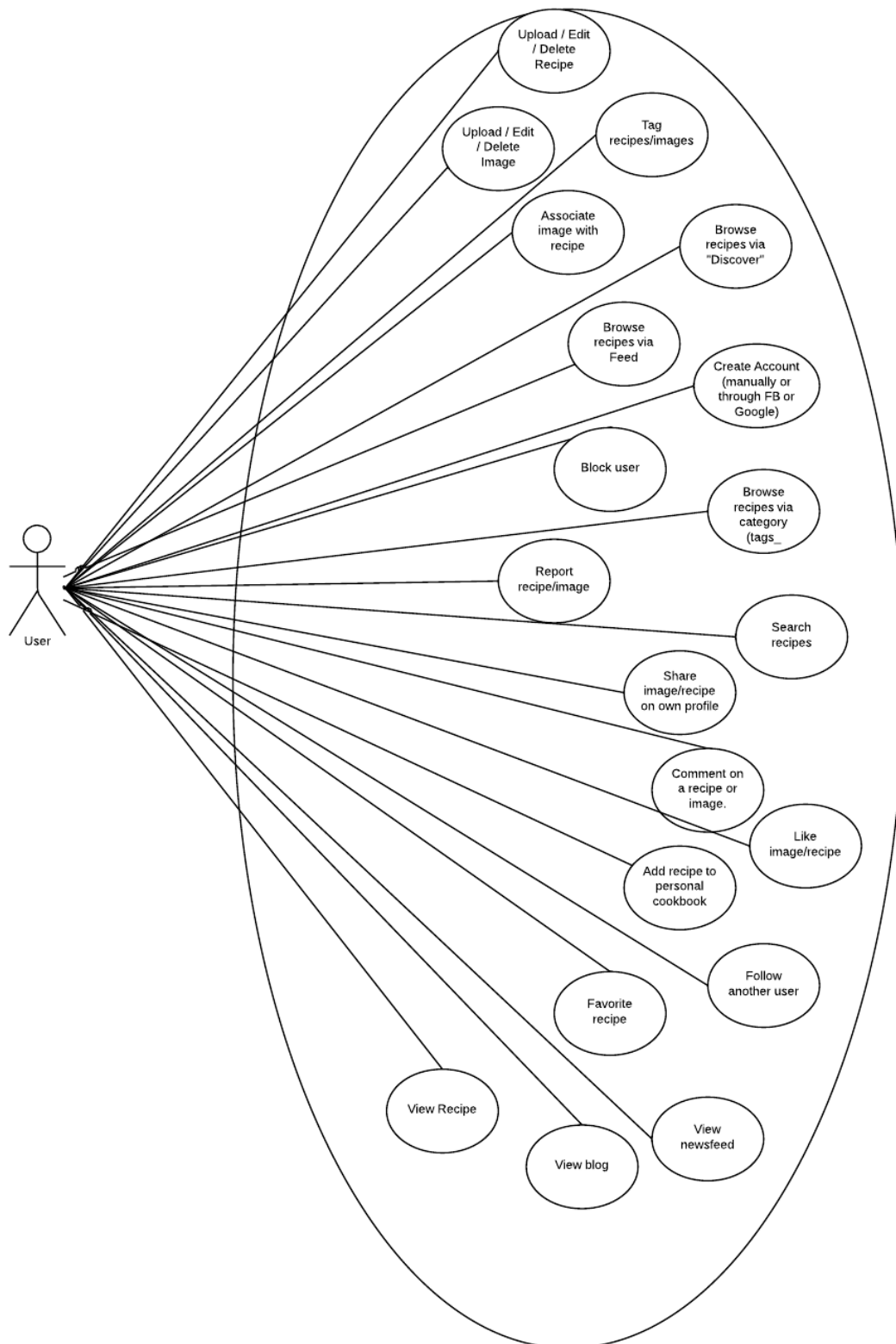Shahzore Qureshi

Requirements Modeling and Analysis

Legal Issues:
- Privacy statement saying that we do not own any images/recipes that users upload. The content belongs to the original uploader.
- Statement that users cannot upload copyrighted materials such as recipes from other sites, or previously published images. If they do so, it can be reported and we will remove immediately.
- If a third party notices their copyrighted material being posted by users, we will remove immediately.
- Must be 13 years or older to use the site as it will be essentially only user-moderated (via "Report" button)
- Images uploaded must be appropriate-- anything pornographic or images of illegal activities will be removed.

Possible Applications:
- Recipe Database
- Social Network
- Improving cooking/baking skills
- Blogging
- Tool for bakers/chefs to develop an internet presence

Use Case Diagram:

Use Case Descriptions:
ADMIN:

- **Create Account:** Users can create an account through one click via Google or Facebook or manually enter their information to create an account. Users must verify their email.
- **Edit Settings:** Users will be able to change various settings
- **Block User:** block any communication between those two users.

SOCIAL:
- **Favorite Recipe:** Users can favorite a recipe, which will be added to their personal cookbook.
- **Add Recipe to Personal Cookbook/Collection:** Users can add another user's recipe to their personal cookbook and mark as "to do", "completed", etc. This counts as a share.
- **Share Recipe/Image:** One user posts another user's recipe to his/her blog. The recipe's share count increments.
- **Like Recipe/Image:** Increments the like count on that post, which increases the recipe's popularity.
- **Comment:** Users can comment on another user's blog, recipes, or images.
- **Follow Users:** Users will have the ability to "follow" another blog/user, which will make that blog's new posts and recipes show up on their Feed.
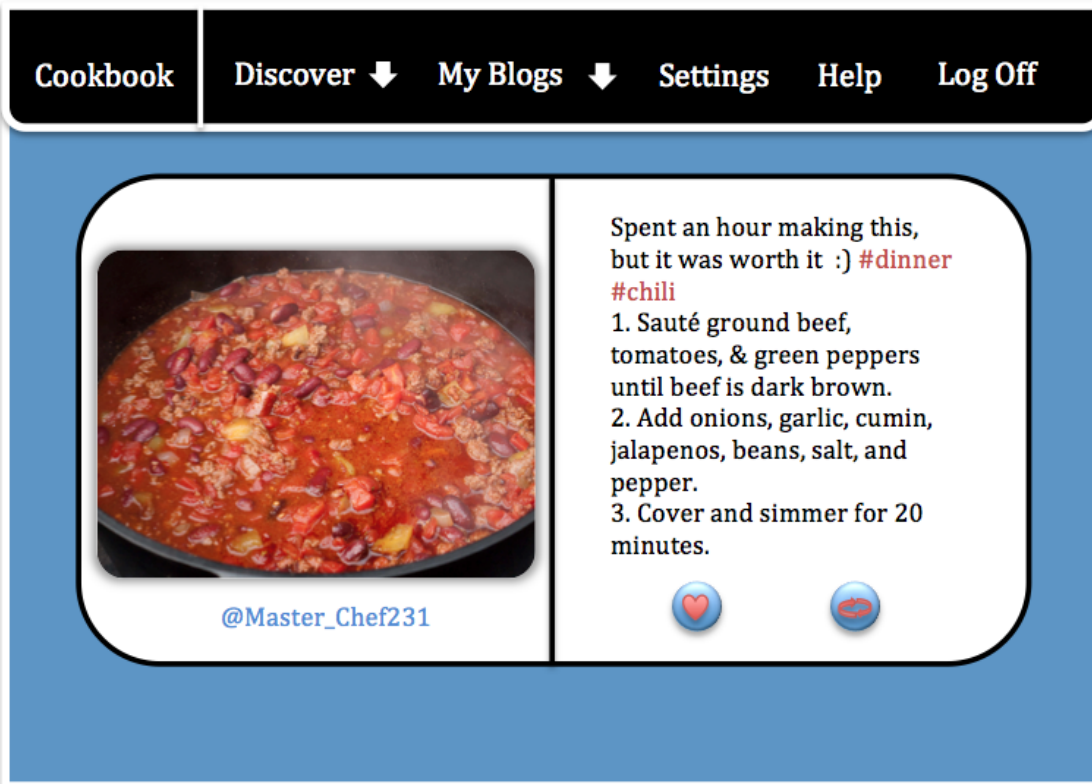
CONTENT CREATION:
- **Create/Upload Recipes:** Provides an interface for creating a new recipe. Users can give a list of ingredients, steps for creating the recipe, a brief description/comments, and add images.
- **Upload image:** Users can upload images and associate them with their own recipes or another user's recipes.
- **Tag Images/Recipes:** Users can tag their own recipes and images.

BROWSING SITE:
- **View Blog**: Reverse-chronological list of all the recipes in a blog. Each entry will include a recipe title, picture, and possibly a description. At the bottom of the page there will be navigation buttons to go to the previous/next pages.
- **Discover Recipes:** View feed of global trending recipes.
- **View Home Feed:** Will show a list of new recipes chronologically from other users they are following. It will be a similar to the Facebook news feed
- **Browse Recipes via Category:** Users can click popular or currently trending tags to view the most popular recipes in that category.
- **Search Recipes**: Search the website to find a recipe. Users will be able to search by title, ingredients, tags, etc…
- **View Recipe:** Displays a recipe's ingredients, steps, picture, and comment. Can be accessed through the home feed, blogs, or search. There will also be a comment system so users can leave comments on recipes.
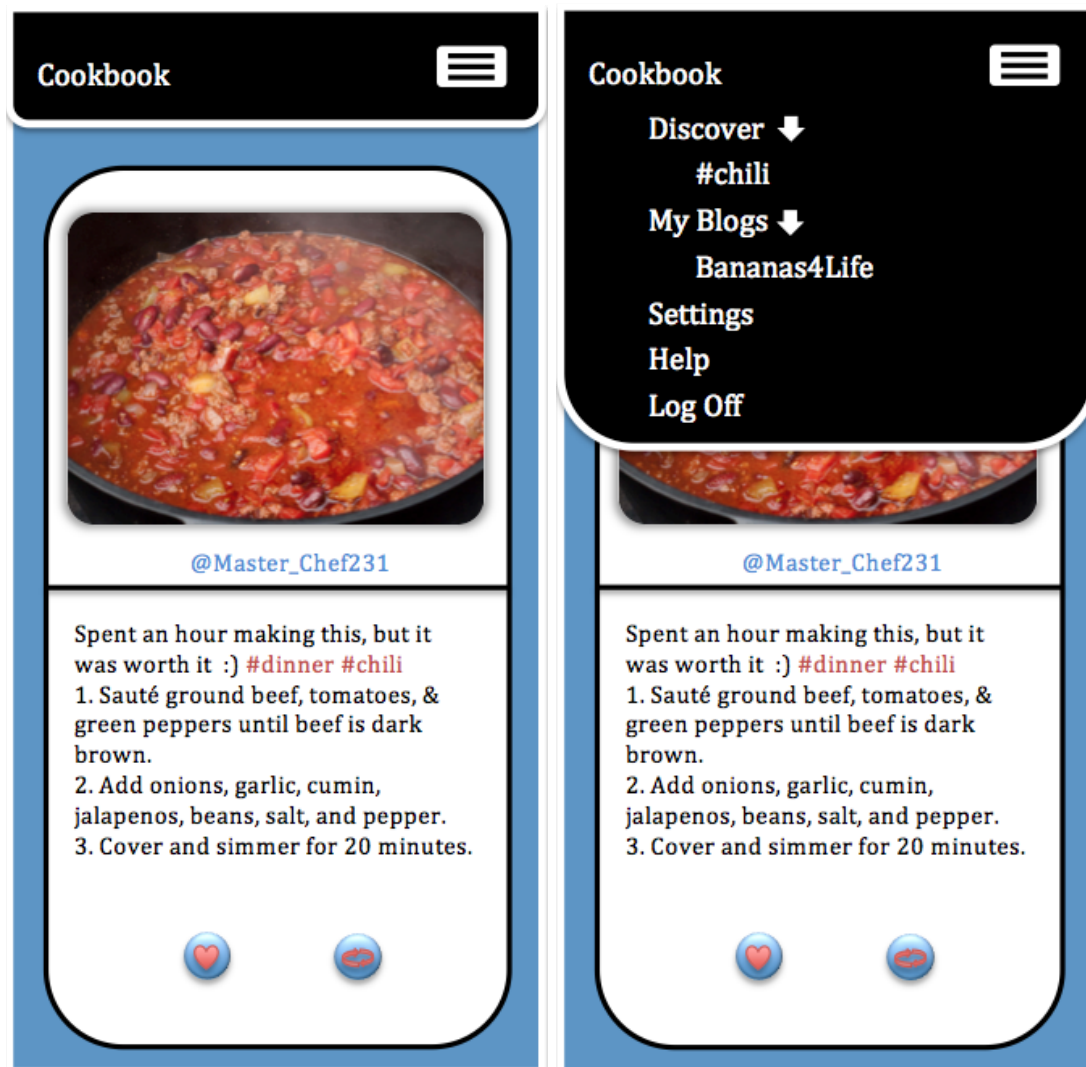
User Interface:

Desktop

Here is a mockup of the desktop interface. In the navigation bar, the "Cookbook" text is actually a hyperlink that directs the user to the home page, which is the "recipe feed". The user is able to see recipes from people that the user is following (subscribed to). Hitting "Discover" directs the user to a page that displays random recipes posted in the last 4-6 hours as well as recipes with more than a thousand likes and/or shares. Also, the user can categorize the recipes by using custom hashtags, which are present in the drop down menu that appears when the user's pointer hovers over "Discover". This drop down list of hashtags can be customized by the user. The "My Blogs" link goes to a configuration page that allows the user to create/edit/delete their own blogs. Each blog has its own hostname, which will be appended to The Cookbook's URL (ex. http://bananas.thecookbook.com/). The "Settings" button directs the user to a typical account settings page. On this page, the password, email address, and other account information can be modified. "Help" brings the user to a support/contact page that includes tutorials, FAQs, and contact information. The "Log In/Log Off" link dynamically changes depending on whether or not the user is logged in. If the user is not logged in, the "Log In" link is shown, which directs the user to the login module. If the user is logged in, the "Log Off" link is shown, which ends the user's current session.

Underneath the navigation bar, a large area of the website layout is dedicated to the actual content of The Cookbook. In this area, recipes, pictures, blog content, account settings, support information, and other data is displayed. In the mockup posted above, a user's recipe is being displayed as a rounded-corner rectangle that is split into two segments. The segment on the left

displays the picture of the food and the name of the user who posted the recipe. The segment on the right shows any comments that the user wrote along with the recipe. Underneath the comments and recipe, there is a like button (looks like a heart) and a share button (two arrows bending toward each other). The like button is used to measure popularity of a recipe. The more likes a recipe has, the more popular it becomes. When popularity increases, the recipe has better chances of appearing at the top of the "Discover" page. The share button is used to let a user's followers know about the recipe. When the button is pushed, the followers of the user who shared the recipe can then see the recipe on their recipe feeds. The amount of shares that a recipe accumulates can increase its popularity as well.

Mobile:

The mobile layout includes all of the functionality provided by the desktop version. The navigation bar turns into a vertical list of links rather than a horizontal list. Clicking the white button that is to the right of "Cookbook" opens the list of website links to various pages. The recipe layout changes into two segments that are stacked on top of each other rather than horizontally placed next to each other. In general, the font and image sizes will decrease depending on how many

pixels are supported on the mobile screen. To determine how many pixels are present, The Cookbook uses CSS3 media queries, which is supported by most mobile platforms, including Android and iOS.

Site Structure Diagram:

```
                         ┌──────────┐
          New User        │ Welcome  │
        ┌────────────────│  Page    │───────────┐
        │                 └──────────┘           │
        ▼                  Log│  │Log            ▼
   ┌─────────┐              In│  │Out      ┌──────────┐
   │ Sign Up │                │  │         │  Recipe  │
   └─────────┘                ▼  │         │  Search  │
        │                ┌──────────┐      └──────────┘
        │                │ Main Page│           │
        └───────────────▶│ (Recipe  │◀──────────┘
                         │ Feed, etc)│
                          └──────────┘
              ┌──────┬──────┬───┴────┬──────────┬──────────┐
              ▼      ▼      ▼        ▼          ▼          │
         ┌────────┐┌──────┐┌─────────┐┌─────────┐┌────────┐│
         │My Page ││Manage││ Account ││Discover ││  View  ││
         │        ││Friends││Management││Recipes ││Recipie │◀┘
         └────────┘└──────┘└─────────┘└─────────┘└────────┘
              │
              ▼
         ┌────────┐
         │Add Recipe│
         └────────┘
```