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## CookZilla recipe sharing website

### I. Introduction

This website is called "Cookzilla". The purpose for this website is for users to share their recipes and form groups to communicate and hold events. The main functions are posting recipes, posting reviews and suggestions to reviews, forming groups, holding events, reserving events and posting meeting reports.

### II. Explanation

To design the database, the first table to create is the "User" table. The "User" table is for storing the information of the users. This table should have a field of unique user id or name as primary key to represent each user. Here we choose using numeric user id as primary key because integer has better performance than string as primary key. Other than primary key, the table also has a field of "uname" which is unique for each id, and a password field, so as for users to use for login. The table also stores the real name and a profile for each user.

Each recipe should be posted by one user, therefore the "Recipe" table has a foreign key "uid" reference to the "uid" in the "User" table. The primary key of the "Recipe" table is "rid".

Because one recipe could link to one or more other recipes, we create a new table "Link\_Recipe" to store the links between recipes.

Each recipe could have more than one ingredient, therefore create a new table "Ingredient". The primary keys are "rid" and "iname", means each recipe can not have ingredients with same name. Each ingredient should have a quantity, so add a field "iquantity" to the table.

Each recipe could have one or more pictures. Therefore, create a table "Recipe\_Picture" to store the pictures. The "rid" is a foreign key reference to "Recipe".

The reviews are posted by users and are comments to the recipes. So the table "Review" has a foreign key "uid" reference to "User" and a foreign key "rid" reference to "Recipe". The primary key of the table is "r\_id".

The "rate" field of "Review" can only have integer value 1 - 5, therefore create a restriction to the values by adding a table "Rate" as code book and set the field "rrate" in "Review" as foreign key.

One review could have more than one suggestions and more than one photo, therefore add two individual tables "Review\_suggestion" and "Review\_Photo", and set "r\_id" as foreign keys in each table reference to table "Review".

The "GGroup" table stores the records of groups. "gid" is the primary key of the table. A group should have a creator, who is a registered user of the website, therefore the table has a field of "cuid" which references to the "User" table. A group also has a "gdescription" field to give a description of the group, which will be shown in the website to let users see the content.

Users could join one or more groups. These records are stored in the "Join\_Group" table. The "uid" is a foreign key reference to the "uid" key in the "User" table. The "gid" is a foreign key reference to the "gid" key in the "GGroup" table.

The "Event" table stores the records of events. Because each event is held by a group, the "Event" table has a foreign key "gid" reference to the "gid" in the "GGroup". Each event should be created by a user, so that the user could cancel the event if schedule changes or nobody want to attend the event. It also has fields for the time, location and description of the event.

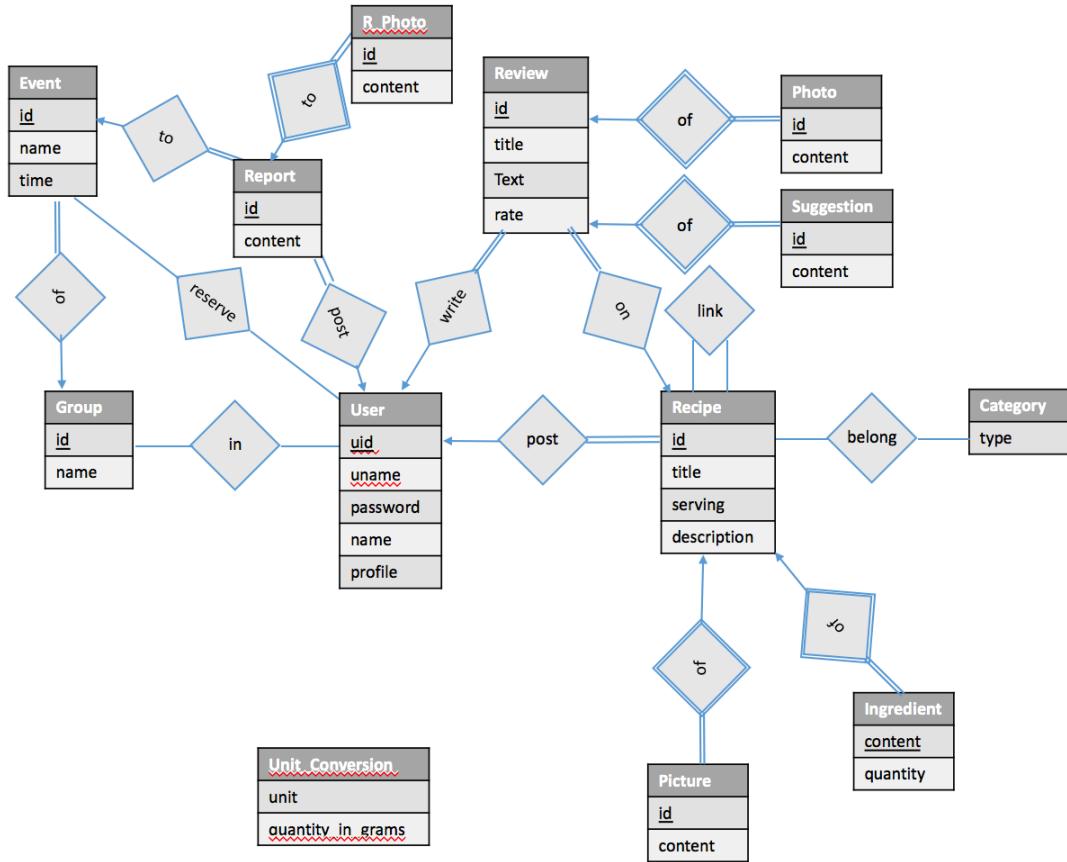
The "Reserve" table stores the records of users' reservations to events. Therefore it has a field "eid" referring to the "Event" table and a field "uid" referring to the "User" table.

After the events, the user could post reports of the events they attended. So the "Report" table has a foreign key "uid" reference to that in the "User" table and a foreign key "eid" reference to that in the "Event" table.

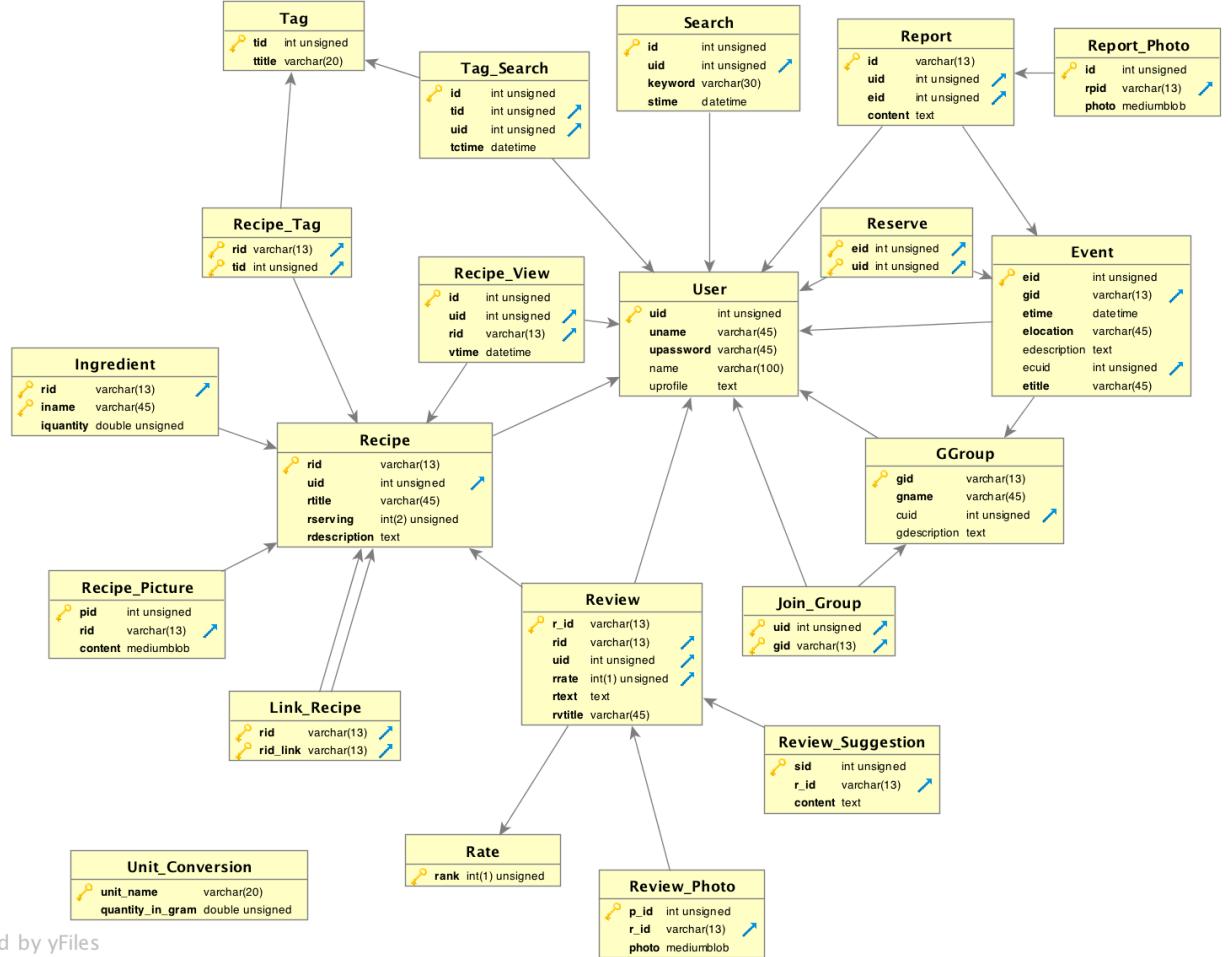
Each report could have one or more photos. These photos are stored in the "Report\_Photo" table.

### III. Diagram

#### 1) ER Diagram



2) The final design of the table relations and contents.



## IV. Instruction

To use the web site, the first step is register a user account.

[Login](#) [Register](#)

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Username

Real Name

Password

Confirm Password

[REGISTER NOW](#)

Input a unique username, a real name and the password twice. If the username has already been taken, it will report error.

**i** sorry username already taken !

Then the user could login by inputting username and password. If input incorrect password, the page will report error.

The image shows a login page with a yellow header bar containing the error message "i sorry username already taken !". Below the header is a light gray main area. At the top left is a "Login" button and at the top right is a "Register" link. There are two input fields: the first contains "yiwei" and the second contains "...". Below these fields is a blue "LOG IN" button. At the bottom of the main area is a link "Forgot Password?".

After login, the user could modify his/her profile and password by going to profile:

The image shows a profile modification page with a light gray background. It features several input fields: "Username" (containing "licheng173"), "Real Name" (containing "licheng"), "Profile" (containing "NYU student"), "Password" (empty), and "Confirm Password" (empty). At the bottom is a blue "Update" button.

After login, the default page is the home page showing all the posted recipes by this user.

The screenshot shows a user profile page with a dark sidebar on the left containing links for Profile, Groups, Events, and History. The top bar includes a user icon, "My Page", "Home", "Post", and "Sign out". The main content area displays five recipe cards arranged in two rows. Each card features a thumbnail image, the recipe name, a star rating, and a serving count.

Thumbnail	Recipe Name	Rating	Serving
	Asian Orange Chicken	★★★☆☆	4
	Sesame Pasta Chicken Salad	★★★★★	10
	Chinese Pepper Steak	★★★★☆	4
	Miso soup	★★★★★	10
	Beef and vegetable stir-fry	★★★★★	4

The recipes will have one picture, average review rating and serving number listed. The left sidebar has options of “Profile”, “Groups”, “Events” and “History”. The topbar has the menu of choosing “My Page”, “Home”, “Post” and “Sign out”. The username of the user will be shown next to the “Sign out” button.

The “Home” page is almost same as the “My Page” except this page shows all the recipes posted by all users, and there is search function for search keywords and tags and ranks.

Keyword  Tag  Rating



Asian Orange Chicken

★★★★★ ★★★ Serving:4



Sesame Pasta Chicken Salad

★★★★★ ★★★ Serving:10



Chinese Pepper Steak

★★★★★ ★★★ Serving:4



Miso Soup

★★★★★ ★★★ Serving:4



Spicy Orange Beef

★★★★★ ★★★ Serving:4



Maharaja Curry

★★★★★ ★★★ Serving:4

By pressing the “Post” button, the page will go to posting function:

**Tag(s)**

Asian    Indian    Italian    Mexican    Southern    Grilling    Vegan    BBQ    Quick&Easy    Dinner  
 Brunch    Breakfast    Snacks    Appetizers    Pork    Chicken    Salmon    Low Fat    Low Calorie  
 Healthy    Salads    Cakes    Drinks    Diabetic    Fruit    Beef    soup    Spicy

**Title**

**Serving**

**Ingredient(s)**

 Unit  Amount   

**Add More Ingredients**

**Description**

**Photo(s)**

**Add More Photos**

**Submit**

One can choose tags for the recipe, the tags items are fetched from the database, but not hard coded in the html. There are other columns, such as “Title” for the title of the recipe, “Serving” for showing the number of people the dish could serve, “Ingredient” for the composition of the recipe, “Description” for a detailed description of the dish, “Photo” to submit photos for the recipe.

After posting a new recipe, the recipe will be shown in the “My Page” and the “Home” page. To view the detail of the recipe, just click on the recipe.

[Asian](#)[Dinner](#)[Brunch](#)[Beef](#)

## Chinese Pepper Steak

created by licheng173

Serving: 4 

A delicious meal, served with boiled white rice, that's easy and made from items that I've already got in my cupboards! My mother clipped this recipe from somewhere and it became a specialty of mine, mine of spice.

### Ingredients

- beef : 454 g
- green pepper : 2.1 g
- ground ginger : 6.3 g
- soy source : 12.6 g
- sugar : 12.6 g
- tomatoes : 100 g
- vegetable oil : 12.6 g



One can the detail of the ingredients, the description and all the pictures of the recipe.

### Links

[Asian Orange Chicken](#)[Chinese Pepper Steak](#)[Delete recipe](#)[Edit recipe](#)[Link to my recipe](#)

### Reviews

Not that good.

I agree that a dash of dry mustard is missing from this recipe. Also, if you really want a rich taste, try substituting half of the milk with evaporated milk. The evaporated milk gives Mac & Cheese an amazingly rich & creamy taste.

 posted by: licheng173

One can also see the other recipes the recipe linking to. There is a “Link to my recipe” button, by clicking which the user could link this recipe to one of his own recipe. If this recipe is posted by the user, there will be two more buttons: “Delete recipe” and “Edit recipe”. The delete button will delete the recipe together with the reviews. The “Edit recipe” button will lead to the edit page.

Following the recipe, there is the reviews to this recipe. And under all the reviews is the “New Review” panel.

New Review

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**Title**

**Review Detail**

**Rating** 1 ↕

**Photo(s)**

[Add More Photos](#)

**Suggestion(s)**

[Add More Suggestions](#)

[Submit](#)

A review includes a title, a review, a rating, photos and suggestions. One can choose to post 0 to many photos and 0 to many suggestions.

Clicking the “Edit recipe” button will direct the user to the edit recipe page. In this page, one can remove the tags by clicking on the tags:

Click To Delete

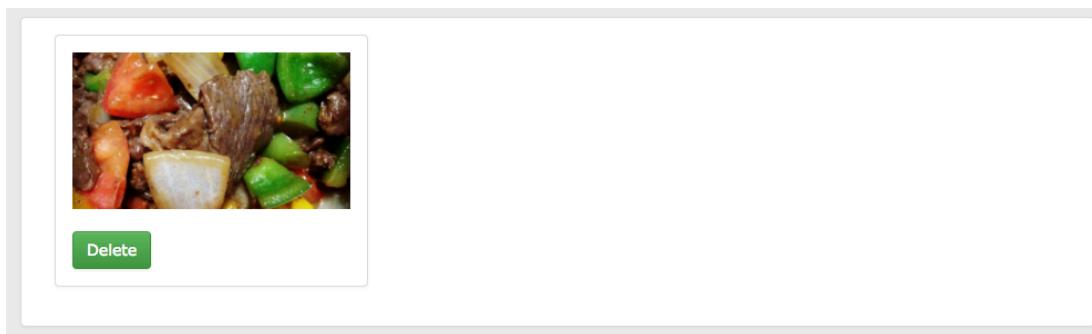
[Asian](#) [Dinner](#) [Brunch](#) [Beef](#)

delete the ingredients:

Ingredients

<a href="#">Delete</a>	beef : 454 g
<a href="#">Delete</a>	green pepper : 2.1 g
<a href="#">Delete</a>	ground ginger : 6.3 g
<a href="#">Delete</a>	soy source : 12.6 g
<a href="#">Delete</a>	sugar : 12.6 g
<a href="#">Delete</a>	tomatoes : 100 g
<a href="#">Delete</a>	vegetable oil : 12.6 g

delete a photo:



delete a link:

Links

Asian Orange Chicken

Delete

or revise the contents and add more tags, photos:

Tag(s)

Asian  Indian  Italian  Mexican  Southern  Grilling  Vegan  BBQ  Quick&Easy  
 Dinner  Brunch  Breakfast  Snacks  Appetizers  Pork  Chicken  Salmon  Low Fat  
 Low Calorie  Healthy  Salads  Cakes  Drinks  Diabetic  Fruit  Beef  soup  Spicy

Title

Chinese Pepper Steak

Serving 4

Ingredient(s)

Add More Ingredients

Description

A delicious meal, served with boiled white rice, that's easy and made from items that I've already got in my cupboards! My mother clipped this recipe from somewhere and it became a specialty of mine, mine of spice.

Photo(s)

Add More Photos

Submit

Go back to the recipe page, click on the reviews will lead to the review page:

A good recipe

I like it a lot



Posted by: yiwei

## Suggestions

add more salt

less sugar



[Delete review](#)

The details including photos and suggestions are shown here. If the review is posted by the logged in user, there is a “Delete review” button at the bottom. Clicking on this button could delete this review.

Users can create and join groups and organize cooking events. In group page, there are three options, “My group” showing the groups user currently registered. User could leave the group by clicking on the “Leave Group” button.

The screenshot shows a user interface for managing groups. At the top, there are three tabs: "My Groups" (selected), "Discover", and "Create a group". Below the tabs, there are two main sections. The first section is for the group "Wash Dish Club", which has a description: "we create the most delicious food!". It features a "Leave Group" button. The second section is for the group "I made it!!!", which has a description: "Welcome to I Made It!! I am now the moderator and we found it easiest to just start a whole new group, so here we are :) This is a place you come to post and review recipe s that you have tried of members here on Grouprecipes. Start a new thread for each recipe by typing the recipe name into the title. Please leave recipe links so we can find it easy and we love pictures added to the threads as well, if you can, but no pressure :) Just have fun and hope this turns out successful!!". It also features a "Leave Group" button.

“Discover” display all the other groups that the user is not in, use can join the groups by clicking “Join Group” bottom.

The screenshot shows the "Discover" page where users can explore other groups. At the top, there are three tabs: "My Groups" (selected), "Discover" (highlighted in blue), and "Create a group". Below the tabs, there are three group cards. The first card is for "Homemade Cake" with the description: "Join us to share ways to cook delicious cake!!!". It has a "Join Group" button. The second card is for "Our daily dinner" with the description: "Please add the recipes you make for your daily dinner, share the warmth of your family table, either for one or twenty!". It has a "Join Group" button. The third card is for "Geekers" with the description: "cool guys". It has a "Join Group" button.

At “Create Group” page user can create new group.

The screenshot shows a user interface for creating a new group. At the top, there are three tabs: 'My Groups', 'Discover', and 'Create a group', with 'Create a group' being the active tab. Below the tabs is a large input field labeled 'Group name' with a placeholder 'Group name'. Underneath it is another input field labeled 'Description' with a larger placeholder area. At the bottom of the form is a blue 'Create' button.

By clicking the “Event” button on the sidebar, user could find all the events he/she participated and reserved.

The screenshot displays two sections of event information. The top section is titled 'Upcoming Event' and features a card for a 'Farmers Party!'. The card includes the group name ('Historic Downtown Jersey City Farmers Market'), location ('325 Grove St. Jersey City, NJ 07302'), detail ('The Historic Downtown Jersey City Farmers' Market features various NJ and NY metro area farmers, bakeries and artisan food, health and beauty goods.'), and time ('2016-12-29 14:02:00'). A 'Cancel Reservation' button is visible at the bottom. The bottom section is titled 'Past Event' and features a card for a 'Chinese food' event. The card includes the group name ('Wash Dish Club'), location ('270 10th St, Jersey City'), detail ('Szechwan Shrimp. Kung Pao Chicken. Spicy Crispy Beef. Sweet and Sour Pork. Get top recipes for the Chinese recipes you crave.'), and time ('2016-12-13 11:00:00').

By clicking on the “Cancel Reservation” button, one could cancel the reservation to the event. All the past could not be cancelled.

The “Discover” tab shows all the other events held by the groups the user joined.

My Events Discover Create a event

## Upcoming Event

Super Easy and Cute Christmas Treats

Group: I made it!!!

Location: 23 E 26th St, New York, NY 10016

Detail: Most of us don't have the time to make a Pinterest-perfect Gingerbread house. I'd love to – but I am stressed just thinking about the construction of those cookie walls, and the sticky mess in the kitchen. Let's just say I'm still having flashbacks from previous Christmas baking projects. Instead, I will be keeping it simple this year, with easy festive treats that are kid-proof and won't have me reaching for the extra eggnog.

Time: 2017-01-25 13:03:00

**Reserve**

## Past Event

One can reserve the event by clicking on the “Reserve” button.

User can create an event at “Create an event” tab.

My Events Discover Create an event

**Group** Wash Dish Club

**Title**

**Location**

**Description**

**Time** mm/dd/yyyy, --:-- --

**Create**

User can choose which group will this event belong to. The options are read from database that the user joined. Other fields include “Title”, “Location”, “Description” and “Time”.

Clicking on the event directs to the event detail page.

## Chinese food

Group: Wash Dish Club

Location: 270 10th St, Jersey City

Detail: Szechwan Shrimp. Kung Pao Chicken. Spicy Crispy Beef. Sweet and Sour Pork. Get top recipes for the Chinese recipes you crave.

Time: 2016-12-13 11:00:00

## Participants

licheng173

guojing

## Reports

It's a nice experience. I cant wait the next event! Chinese food is the most delicious food in the world!

Posted by: guojing

It shows the detail of the event, the participants and the reports posted by the participants. One can post a new review below. One can post a text report and several photos.

### New Report

|How was the event?

#### Photo(s)

Add More Photos

Submit

Clicking on the report leads to the report detail page.

It's a nice experience. I cant wait the next event! Chinese food is the most delicious food in the world!

Posted by: guojing

[Delete report](#)



[Delete photo](#)

If the report is posted by the user, the user could delete the photos and report.

The last part is “History”. This part will display recipes the user has recently looked at, or to display recently clicked tags or recent searches, and in general to learn what kind of recipes the user is interested in. User can also click each record and check the detail of recipe he or she interested in.

Keyword	Tag	Recipe
2016-12-15 17:30:58 salad	2016-12-15 17:31:06 Indian	2016-12-15 17:30:22 Italian Sausage
2016-12-15 17:30:52 noodle	2016-12-15 17:30:27 Chicken	2016-12-15 16:47:55 Jay's Signature Pizza Crust
2016-12-15 17:30:47 chicken	2016-12-15 17:30:23 Dinner	2016-12-15 16:46:53 Jay's Signature Pizza Crust
2016-12-15 17:30:41 curry	2016-12-15 16:55:52 Indian	2016-12-15 16:45:56 Jay's Signature Pizza Crust
2016-12-15 17:30:37 india		2016-12-15 16:29:49 Italian Sausage
2016-12-15 17:30:34 asian		2016-12-15 15:26:03 World's Best Lasagna
		2016-12-15 15:25:49 World's Best Lasagna
		2016-12-15 15:25:46 World's Best Lasagna