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FoodGuyver Design

Foodguyver will be a recipe finding web-app that is much more strict on ingredients than most other apps on the market. The main idea is to make use of ingredients users have readily available; because of the large nature of the database, Foodguyver will be developed as a web app, geared towards mobile consumption.

We will use Drupal as content management system to easily make the website mobile friendly and handle most aspects of user accounts. We will be using a third party API for much of the recipe database (recipepuppy.com) as well as our own mySQL database to handle user-entered recipes, comments and ratings.

The user will be presented with a simple intuitive interface where they will input a list of ingredients, this list will be used to query the recipepuppy API along with our own small database and return recipes containing those ingredients. Users will not have to make an account to use the service but it will be required to add new recipes, ratings, comments and edit preferences such as “common ingredients”

The rest of this document describes the layout of Foodguyver.com and how features will be displayed, with one caviat. Drupal offers a wide verety of pre-made modules to streamline the process of web development. These modules may do give us the feature we need but they may also give us extra features, or may be coded slightly differently than our proposed design suggests. A good portion of this project will be learning the ins and outs of drupal, and deciding which pre made modules to use and which to design ourselves. As such, our proposed design may have slight variation with the final product. However, no feature described in this document will be omitted from the final design.

Page Layout:

The menu bar will be located at the top of screen of every web page with the following options:

- displayed to logged out users:
    - home (redirects to homepage)
    - login (redirect to login page)
- displayed to logged in users:
    - logout
    - my account (redirects users to my account page)

displayed at the bottom of each page

- help (redirects to help page)
- contact us (redirects to contact page)
- About us (redirects to about us page)

Home page:

- search form with search button. User enters ingredients and recipes result. (redirects to results page)
- secondary search options
    - check box for common ingredients (only displayed for logged in users)

notes:

When users enter ingredients to the search fields and hit enter, they will get all recipes that contain those ingredients. When the common ingredients check box is checked, the results of that search will then be filtered down even more. If a recipe has an ingredient that is not on the the user's common ingredients list, that recipe will be filtered out.

Login page:

- username field
- password field
- remember me checkbox
- create new account (redirects to create account page)
- request new password (redirects to new password page)

Create Account page:

- Username field
- email address field
- password field
- confirm password field

New password page:

- Username or email address field
- E-mail new password button

My Account page:

- edit user information
- upload (redirects to upload/edit recipe page)
- customize common ingredient list (redirects to common ingredients page)
- list of uploaded recipies
    - edit button
    - delete button

Common ingredents page:

- user selects ingredients from list of tags
- adds or removes tags from list

Upload/ Edit recipe page:

user enters the following information into forms:

- Title of recipe
- picture of the finished dish (this field will be optional to the user
- ingredients list / tag list
- recipe procedure

Help page:

- FAQs that will help users to better navigate the site
- Includes a link to the contact page
- Tutorial on how to post your own recipe

Contact page:

Users will be given admin emails to contact us.

About us page:

- a little blurb about us and why we created this sight

Tags page:

- list of tags
- character matching search (type in flour and get things like: rice flour, AP flour, bread flour, ext… note that “flour” may not be a tag. The user is typing in “flour” to get a list of all the tags that contain the characters: f, l, o, u, and r, in that order.

notes:

If a pure tag searching system is used, searching for something that is not a tag, will give zero results. This page will help users find the right words to search for. searching for flour, is not quite specific enough for some recipies. You would have to instead search for things like cake flour, or rice flour. Another issue is multiple names for the same ingredients. For instance, corn flour and cornstarch is the same thing (or you might call corn flour and cornmeal the same thing). Having multiple tags for the same ingredient will reduce search effectiveness. In these cases, the Admins would need to make a decision on which tag to use and which tag to delete.

Results page:

- shows number of results
- Shows the results of the recipe search
- each result displays the recipe title, picture and rating.
- clicking on a result will give the full recipe (redirects to recipe page or to the API we are using)

Recipe page (If recipe is in *our* database):

- Displays the recipe
    - title
    - image (if present)
    - source (if present)
    - ingredients and procedure
    - tags for that recipe
- displays the rating
- displays comments
- loggedin users may rate, comment, and rate comments

Database Layout:

Users table:

- username (primary key)
- status (active/blocked)
- roles (administrator/<blank>)
- member for
- last access
- operations

Common ingredients table (table title will have the username of the user whose common ingredients list this belongs to):

- ingredients (secondary key)

User-created recipe table:

- recipe ID (primary key)
- title
- picture of finished dish (jpeg/png)
- recipe (the recipe in it’s entirety)
- rating
- source
- poster (secondary key)

Comments:

- recipe ID (secondary key)
- comment
- commenter (secondary key)
- rating

Tags:

- all tags (primary key)

Recipe tags (table will have a recipe ID in the title):

For each recipe added to the database, a new table will be created. The title of the table will be the new recipe's recipe ID and the table will keep track of all the tags that describe that recipe.

- all tags pertaining to this recipe (secondary key)