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WEBSITE PROPOSAL

Website Idea: Shared Recipes Website

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Idea – Shared Recipe Community

A platform for contributing recipes online. Users can create an account to contribute without having to be approved, or use a nickname but then they can't edit and must be approved. Public viewers (not logged in) can view all approved recipes. As a first step, we'd make anyone able to add recipes, but they wouldn't show until approved. If time permits we can go back and add proper user accounts.

Viewers and Users can search within the recipe title. Selecting a recipe will display the recipe with standard HTML like H1, P, some icons, UL/Li tags.

Other things we could do include using the HTML5 location API to add a location of the user who uploaded the recipe so you could search for recipes from certain countries.
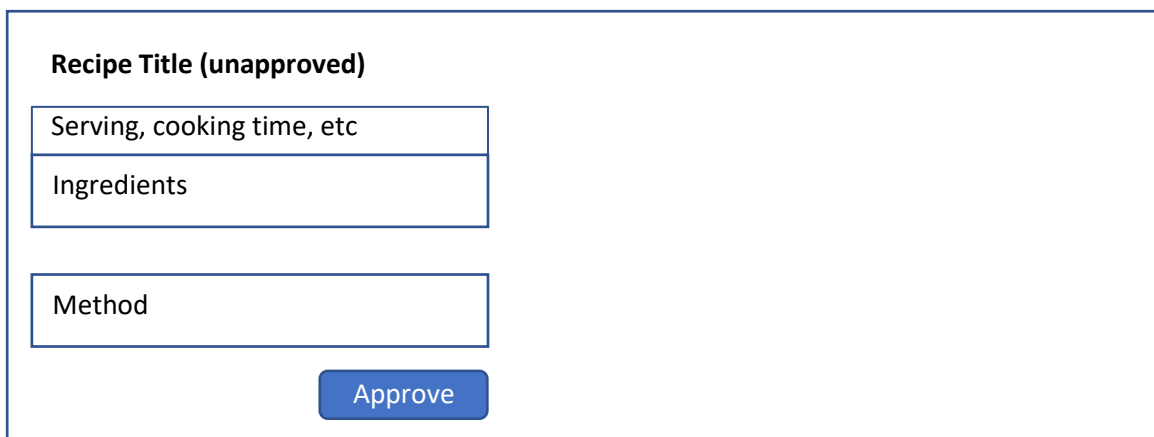
Website Layout – Page Mockups

Home Page and Recipe Search – form

Hero Image

Search for a recipe

View Recipe Screen – simple markup and styling if signed in as admin user can see all recipes even unapproved ones and a button to approve it (which just sets the database field to "approved" for that recipe).

Recipe Title (unapproved)

Serving, cooking time, etc

Ingredients

Method

Approve

Recipe Edit/Upload Screen – a form with fields to type ingredients, method, cooking time, etc. And submit button.

Recipe Title

Servings	Cooking time

Ingredients

Method – rich text field if time permits

Submit

User Management Screen (If needed) or about page.

About

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Theory of Web Standards – Discussion

Web standards themselves are important to help the entire internet ecosystem interoperate between Web browsers, Email clients, host platforms etc. According to the W3C, the World Wide Web authoring and standards body,

> "We should be able to publish regardless of the software we use, the computer we have, the language we speak, whether we are wired or wireless, regardless of our sensory or interaction modes. We should be able to access the web from any kind of hardware that can connect to the Internet – stationary or mobile, small or large."
> (https://www.w3.org/standards/agents/, Retrieved 18 March 2017)

One could reason that adhering to such an ideal enables data, information, and knowledge to be shared and understood by much of the world should foster human development and help knowledge makers to spread their knowledge and tools with less frustration.

Without complying with Web standards and/or accessibility guidelines, a website is as risk of displaying incorrectly and forcing visitors to leave early or at least not return, or in the worst cases, losing customers entirely because they can't load the content on their device or can't read it via their screen reader or other assistive technologies for people with some vision problems.

Technology Feature Coverage

Client-Sever Communication

I will use JavaScript AJAX requests to upload the food photo so that I can display a progress bar or at least a percentage indicator. jQuery appears to have relatively good support for this built into the `ajaxForm` method.

The recipe itself can be served over HTML and rendered on the server, or passed down as JSON and rendered on the client. Forms such as login or nickname creation will also be fine to be submitted using normal HTTP POST method.

Server Side Code / Database

I'll use PHP because it's mature and has decent support for databases.

To save space we will automatically resize images to 1080px at the longest edge using ImageMagick.

A database can be used to store the recipes and active users.

Advanced JavaScript Usage

Most JavaScript functionality can be provided by pre-built libraries, though if needed both drag and drop and slideshow functionality can be coded manually.

Drag and Drop Uploads

To make it easy for users to upload food photos, we can use the open source library http://www.dropzonejs.com. The Modernizer library can be used to provide feature detection and so provide a fall-back to standard input.

Markdown to HTML Viewer

If we support HTML in the recipe editor for rich text, we shouldn't save HTML in the database, but we could I suppose. So let's store Markdown instead so we need a JavaScript plugin to display and edit it.