

Project Specifications: The Pantry

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1 Application Overview

We have decided to create a platform for people to share all things cooking. This will be a recipe website with an emphasis on sharing specific information, by encouraging people to post photos, recipes and share ideas. Our team has decided to create a platform to allow users access to recipes, as well as post their own recipes with any type of media: videos, images, etc. Furthermore other than sharing their own recipes, we will allow users to follow different content creators and provide a feed of personalised recipes, based on previous recipes that the user has viewed or by different creators they have followed.

2 Specification

2.1 Functionality

1. Users sign up and manage their account: profile, posts, feed, etc.
2. Search box to search for recipes and other users.
3. Allow users to post in structured manner: a section for image, section for method and a section for ingredients.
4. Allow users to browse through different categories and content creators via menus and submenus.

2.2 Assumptions and Dependencies

We are assuming that users will want to post recipes in a structured format, that is: uploading a picture of the finished product; entering key details such as the ingredients list; method taken to reproduce recipe and how many people it serves.

2.3 Developments Methods

We will use a version control system to collaborate, the specific tools being git and github. To implement the project we will be using Python with the Django framework as well as several different other programming languages and tools such as photoshop for site graphics.

3 User Personas

3.1 Persona 1

Name: John Smith

Occupation: University Student

Location: Edinburgh

Age: 24



Bio

John does not have much experience with cooking. He is on the university football team so is looking for simple healthy dishes on a budget. John wants to follow people that promote a healthy way of living and sometimes bakers when he wants to impress his new flat mates with cake and pies. He has used technology for most of his life so has no issues with using new applications and will access them on his laptop, phone or tablet.

Goals

- John would love to be a professional footballer
- He wants to be in the best shape possible
- He wants to be much more confident in the kitchen

Frustrations

- Inefficient things
- Over sharing on social media
- Fake news

Technologically Skilled



3.2 Persona 2

Name: Margret Collins

Occupation: Retired

Location: London

Age: 69



Bio

Margret is looking for some delicious and healthy recipes for her grandchildren. Margret is a bowling player and is a former local champion. Grandma Margret loves to bake cakes and make casseroles but her grandchildren are getting sick and bored of the same dishes every time. She is not very familiar with technology and sometimes struggles to understand how to use even the internet's most popular websites.

Goals

- Make friends and family happy
- Try new things
- Try and attend more bake sales
- Raise money for charity

Frustrations

- Confusing Websites and technology
- Brexit
- Adverts

Technologically Skilled



3.3 Persona 3

Name: Steve Williams

Occupation: Chef

Location: Glasgow

Age: 39



Bio

Steve is the head chef at his own café in the centre of Glasgow. He is always looking for opportunities to promote his work, he feels the best way of doing this is to share dishes and ideas he has online to encourage people to come and try his cuisine. He is very comfortable with technology and has a passion for photography as well as food.

Goals

- Grow his business
- Expand his knowledge of food
- Learn the piano
- Lead a healthier lifestyle

Frustrations

- Food critics
- Cats
- Cluttered websites

Technologically Skilled



3.4 Persona 4

Name: Fiona Jackson

Occupation: School Pupil

Location: Manchester

Age: 14



Bio

Fiona has recently found an interest in cooking, she likes to help her Mum and Dad in the kitchen as much as possible and sees food as a possible career path for her in the future. Although Fiona has many friends at school no one she knows has the same passion. She has joined the local baking club but again there are not many young members. Fiona is always on social media, she has accounts with Facebook, Instagram and Snap Chat, and this has made her very comfortable with using technology as she accesses these sites on many devices.

Goals

- Become a head chef in a restaurant
- Do well in her home economics exam
- Learn more about cooking

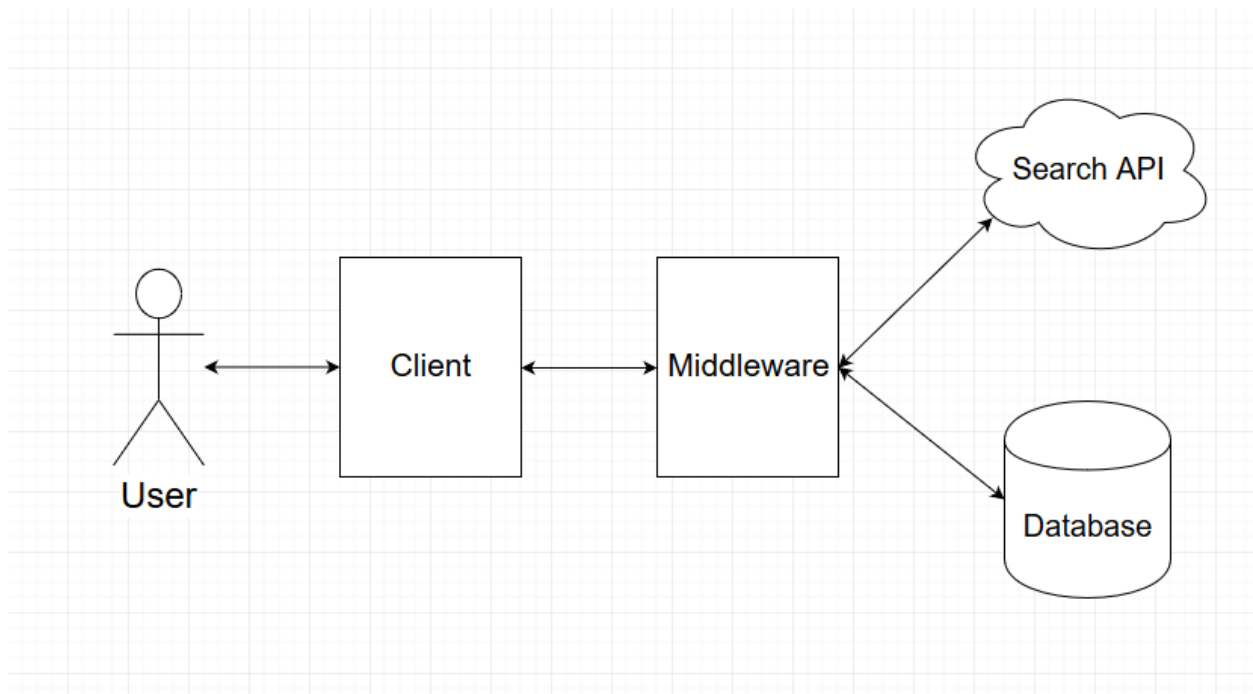
Frustrations

- Lack of information for young people that like to cook
- Confusing websites
- People that are not nice online

Technologically Skilled



4 System Architecture

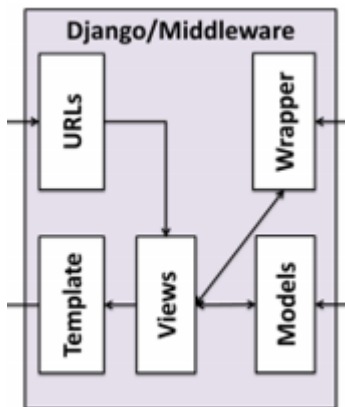


4.1 Client

Our applications client will be a human. This means the application will have to be simple enough for most people to understand and aesthetically pleasing enough to make people want to use and come back to.

4.2 Middleware

Django will be used for the applications middleware. We will store the URLs, templates, views, models and wrapper here. This means how the application looks and feels will be decided within the middleware.

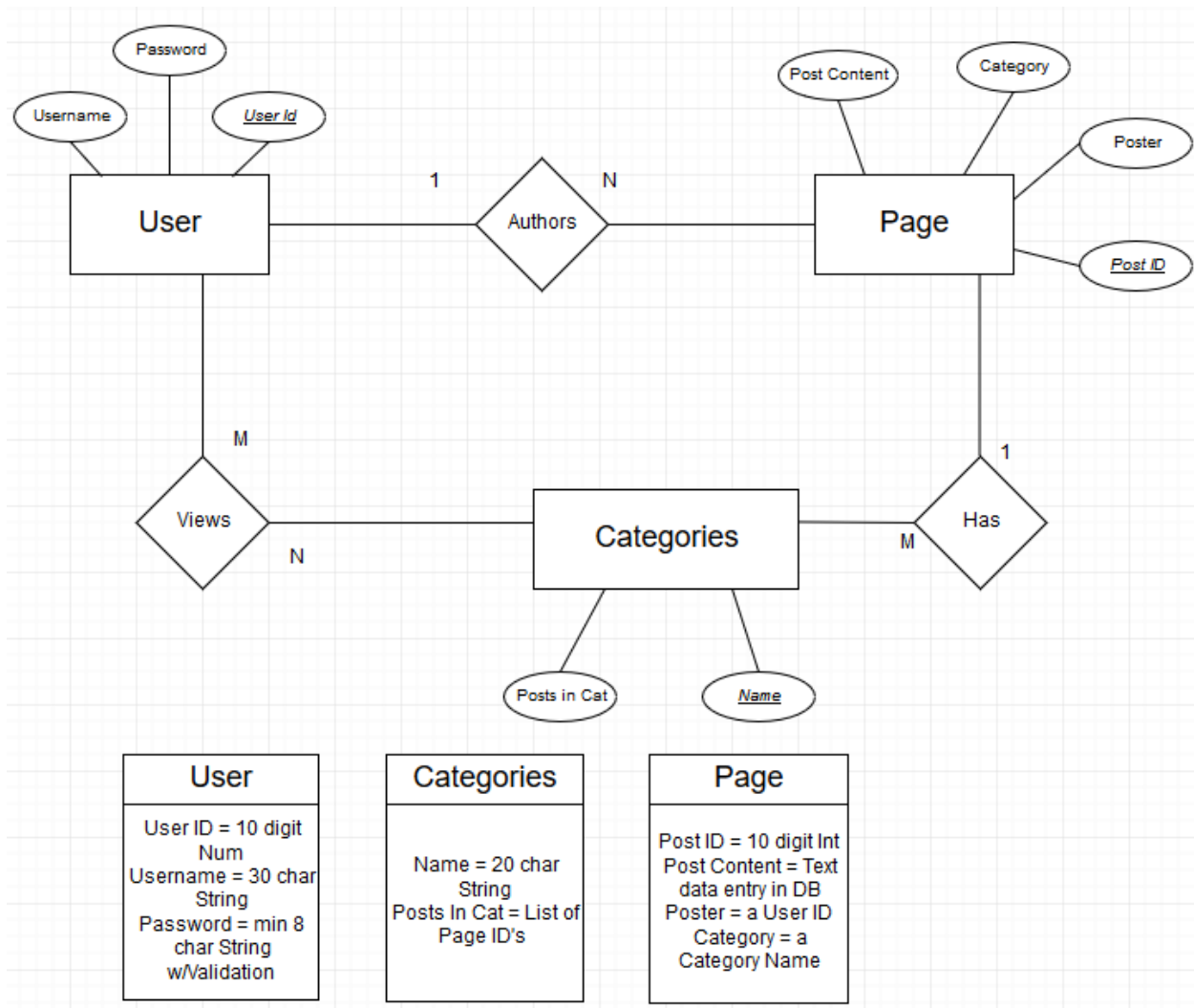


4.3 Backend

The backend will store the data/content for the application. It will do this in a database. Services will also be stored here (search API).

5 Entity Relationship Diagram

5.1 Entity Relationship Diagram



5.2 Structure of Models

The structure for the user model will be a relation with the fields: Username, Password and User ID. The primary key for this will be User ID. Page will be a relation with the fields: Post Content, Category, Poster and Post ID. The primary key for this shall be Post ID. Finally the category is a relation with the fields: Post in Categories and Name. The primary key being Name.

5.3 Relationship and Cardinality

The relationship between users and page is: users are authors of a page and pages have authors. The cardinality is 1-N, with users have many pages and pages belonging to one user. The relationship between users and categories is: users view categories and categories have many users viewing them. The cardinality is M-N, users new many pages and pages have many views from user. The relationship between page and categories is: each page has a category and a category has pages. The cardinality is 1-M, categories have many pages and a page belongs only to one category.

6 Wireframes

6.1 Index Page



6.2 Recipe Page





The Pantry

[Log Out](#)

[Home](#)[Trending](#)[Categories](#)[Favourites](#)[Profile](#)

Suppon Burger



Some User



Ingredients

100gr things
200gr food
100ml blood of your enemies

Method


- 1) wash your hands
- 2) get in the zone
- 3) pray to the gods
- 4) maybe cook


Comments

User238234: This viscous hamburger patty and sauce is providing a sensuous stimulus

[Latest](#)[About](#)[Contact](#)[FAQ](#)

6.3 Category Page






The Pantry


[Log Out](#)

[Home](#) [Trending](#) [Categories](#) [Favourites](#) [Profile](#)


Categories




Mains



Sides



Desserts



Quick Recipes

[Latest](#) [About](#) [Contact](#) [FAQ](#)

6.4 Login Page





RECIPES WEBSITE

[Home](#) [Trending](#) [Categories](#) [Favourites](#) [Profile](#)

Latest



Yukihira Soma 

Heading

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Views: 1024

Likes: 64

New to RecipesWebsite? Join now!

[Latest](#) [About](#) [Contact](#) [FAQ](#)

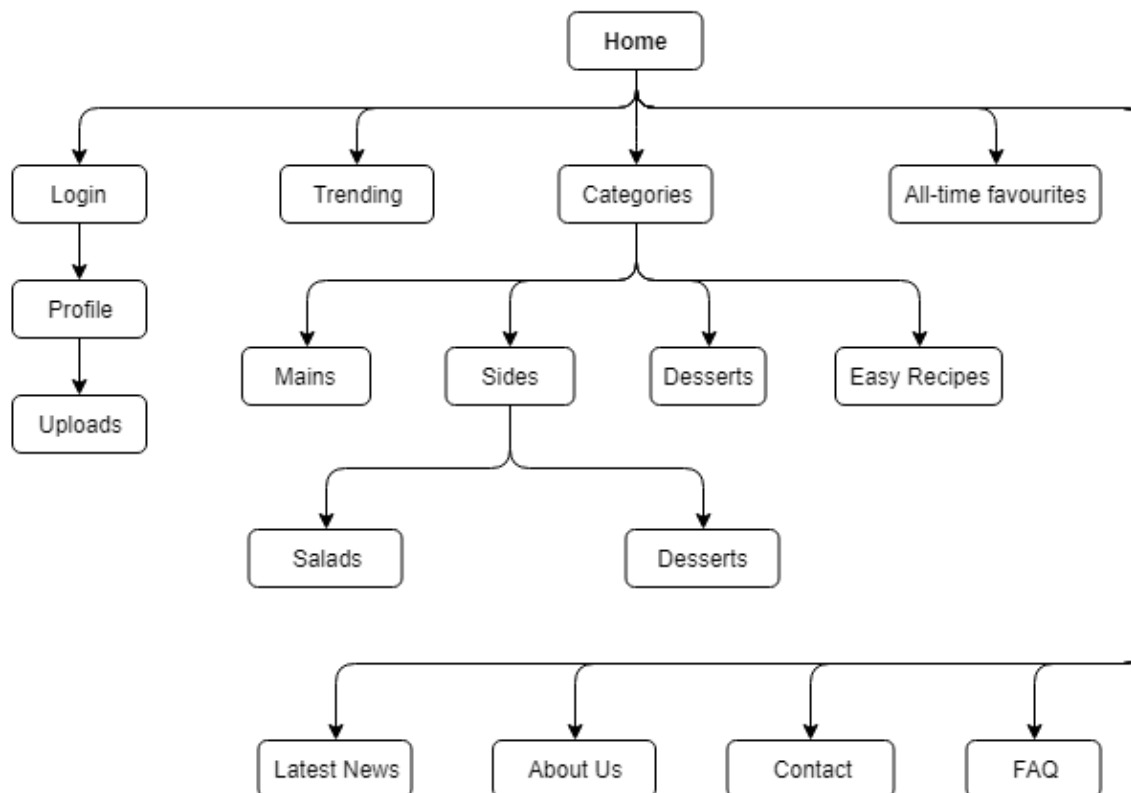
7 Site Walkthrough

7.1 General Layout

When one first loads up the website, one will be presented with a menu bar at the top with the options: Home, Trending, Categories, Favourites and Profile. Clicking on any of these will take you to the respective pages. At the top right hand corner of the website one will find a login/out button which can be used once one has a registered account. To the left hand corner of the top menu, there is a search bar that users can use. Furthermore, users are presented with a feed of recipes in the center of the page. When transitioning from page to page, the main section of the website may change content to fulfill said pages requirements. Finally There is a menu at the foot of the website with a link to the latest recipe posts and several support links. Each page has the same general layout to provide an easy to use website and continuity.

7.2 Visual Site Mappings

Provided below are visual mappings of how to navigate the website:



Site URLs

- /index
- /login
 - login/profile
 - login/profile/uploads
- /categories
 - /categories/mains
 - /categories/sides
 - /categories/sides/soups
 - /categories/sides/salads
 - /categories/desserts
 - /categories/easy
- /trending
- /all-time-favourites
- /logout
- /latest
- /about
- /contact
- /faq

7.3 How-To Tutorial

7.3.1 Index Page

To navigate users need to click on links in the respective menus to take oneself to another page. If users want to find a specific recipe or user, one simply needs to type what they are looking for in the search bar. If not signed in one will be presented with a feed of trending recipes, however if signed in the feed is personalised based on which users one follows and on previous recipe viewing history.

7.3.2 Catagory Page

On this page the feed is replaced by captioned images of the catagories available on the website, to go to the respective catagories the user simply needs to click the image for the catagory.

7.3.3 Recipe Page

When the user has clicked on the recipe, the user will be presented with the method and ingredients. The ingredient list is always below the image of the finished product and is listed by name and amount. The method is always to the right, users should follow the steps provided to make the following recipe. At the bottom users can leave comments for the recipe author, comments are seen by all users.

7.3.4 Login Page

If the user is already registered with the website then one can login by entering one's username and password and pressing the log in button. Once logged in users have the option to modify their profile and post a recipe. If the user is not registered with the website then one can register by choosing a available username and password and providing an email account that belongs to oneself.