lobo SoftDev Design Document

TARGET SHIP DATE: {2024-11-1}
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Blog - xbxlobog ("suh-buh(respirated/inhaled)-low-bog")

Overview

We will be creating a blog platform where users can sign up, create, edit, and delete their blog posts. The site will feature categories for posts, comments, and the ability to view other users' blogs. The focus of our blog will be food (recipes, information, etc.)

* "blog entry" is used interchangeably with "blog post"

Components

1. **User Authentication Module (UAM)**
   Role: Manages user sign-up, login, and logout functionality.
2. **Post Management Module (PMM)**
   Role: Allows users to create new posts, edit existing posts, and delete their posts.
3. **Comment System Module (CSM)**
   Role: Enables users to comment on blog posts, edit their comments, and delete their comments.
4. **Category Management Module (CMM)**
   Role: Organizes blog posts into categories for easier navigation by users.
5. **Database Module (DbM)**
   Role: Handles all data storage and retrieval operations using SQLite3. Contains tables for users, posts, comments, and categories.
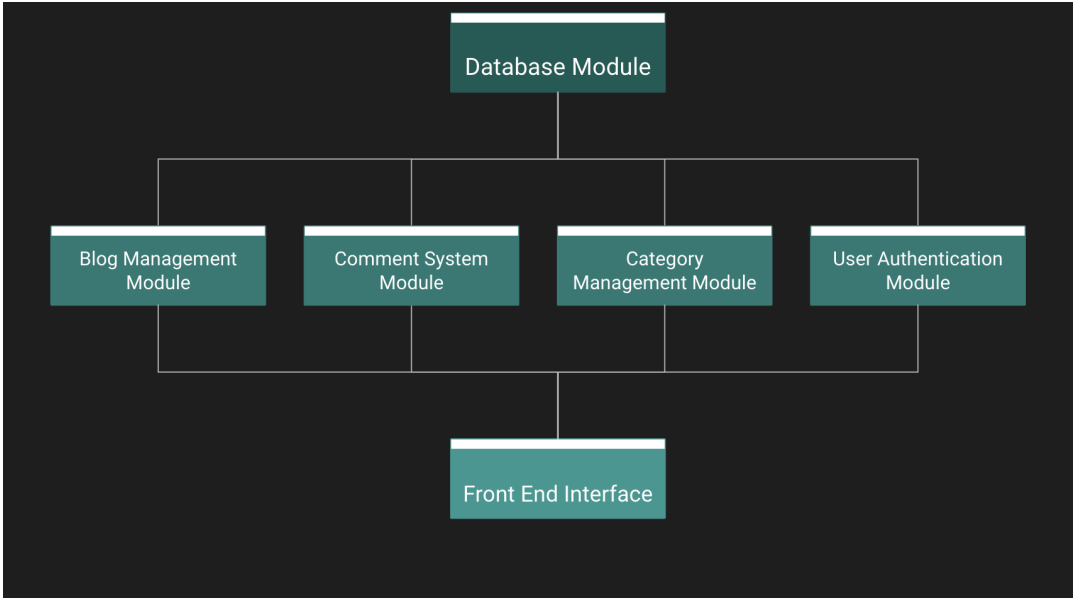6. **Frontend Interface (FeI)**
   Role: User-facing component built with HTML and CSS. Responsible for site layout and styling.

Component Relationships

- **UAM** interacts with the **DbM** to manage user credentials and Flask sessions.
- **PMM** communicates with the **DbM** to create, pull, update, and delete blog entries.
- **CSM** relies on the **DbM** to store and retrieve comments associated with each blog post.
- **CMM** categorizes posts stored in the **DbM** and enables filtering of posts.
- **FeI** integrates all modules to visually represent the data managed by the backend components.

Component Relationship Visualization:

Database:

Tables:

Users:

id	username	password	email
#	(abc) --------	(abc) ---------	-----@--.---

Categories:

id	title
#	(abc)-----

Posts:

id	title	date_created	category	username	content
#	(abc)-	(YYYY/MM/DD)--	#category_id	(abc) --------	<HTML>

Comments:

id	content	date_created	username	under_post
#	(abc)—————	(YYYY/MM/DD)———————	(abc) ————————	#post_id

Site Map

Home → Login/Sign Up + About + Blog Pages
              |
              |
            +-----Blog pages

TASK ASSIGNMENTS

TASK	Will Nzeuton	Daniel Park	Tim Ng	Yinwei Zhang
Set up Flask and SQLite3 environment		**X**	**X**	
Build UAM	**X**			
Build PMM			**X**	
Build CSM	**X**	**X**		
Build CMM			**X**	
Build DbM		**X**		
FeI (HTML)				**X**
FeI (CSS)				**X**
Final Testing and Bug Fixing	**X**	**X**	**X**	**X**