**Functionality & Coding Considerations**

Coderfly is a blog website explicitly for coders and Computer Programming students to post their thoughts or coding notes.

1. Responsive Design: Ensure a responsive design for users accessing event information on various devices. When the width of the screen width is small, aside goes to the top of the page. And the position of search bar will chage.
2. CRUD: User can create, read, update, and delete their posts.
3. Search and Filter: Users can search posts by category, by authors, or by keywords. Search function will be visible to logged-in users. Filtering is based on post categories.
4. Authentication: Only authenticated users can use searching function. Also, we enhanced the security of our website by only enabling logged-in users to create posts or comments. If an unlogged user tries to create post or review, they will be redirected to sign in page with an alert.
5. Authorization: Enhance security by authorizing users both frontend and backend. The edit and delete buttons are only visible to the owners of posts and comments. Unauthenticated users are allowed to view posts and reviews.
6. User Registration: Develop a user registration form for individuals to create accounts and write posts.
7. User-friendly Design: Use SESSION to store user information. After logging in, users will be able to see a greeting message in the nav bar, and users will have access to their own post collection.
8. Form validation: Implement both client-side and server-side validation for the registration form and post-creation form. For the client side, when users sign in or sign up, there is a rule on email validation and password length. When users create a new post, the title and category should not be empty. If the rule isn’t met, an error message will pop up to help users correct it.
9. Dynamic Behavior: Allow users to comment on blog posts and dynamically update the page with newly created comments without refreshing.
10. Recommendation: Recommend the top 5 most popular posts to users.