

**Web
Application**

Functional Documentation

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Introduction

Rizel's fun forum is a website that allows users to engage with one another by writing posts and exchanging knowledge about a specific topic. Rizel's fun forum was designed as it is a wonderful way to form social relationships and cultivate a feeling of community.

The application is like a basic forum that allows users to share various posts, ideas and topics with other users.

There are 3 set of users in the application. Admin, Post creator and regular readers. Admin has access to the entire application and its features. Admin can add, modify, remove other users and their roles in the application. Admin can also create new categories that the posts beings to, which the creator selects while creating a post. Admin can create posts, review and either approve or reject other user's posts. Post creators has the access to view the posts from other users that are approved by the admin and create, edit, delete their own posts. Readers has only the ability to read the posts on the dashboard after login.

Use case diagram

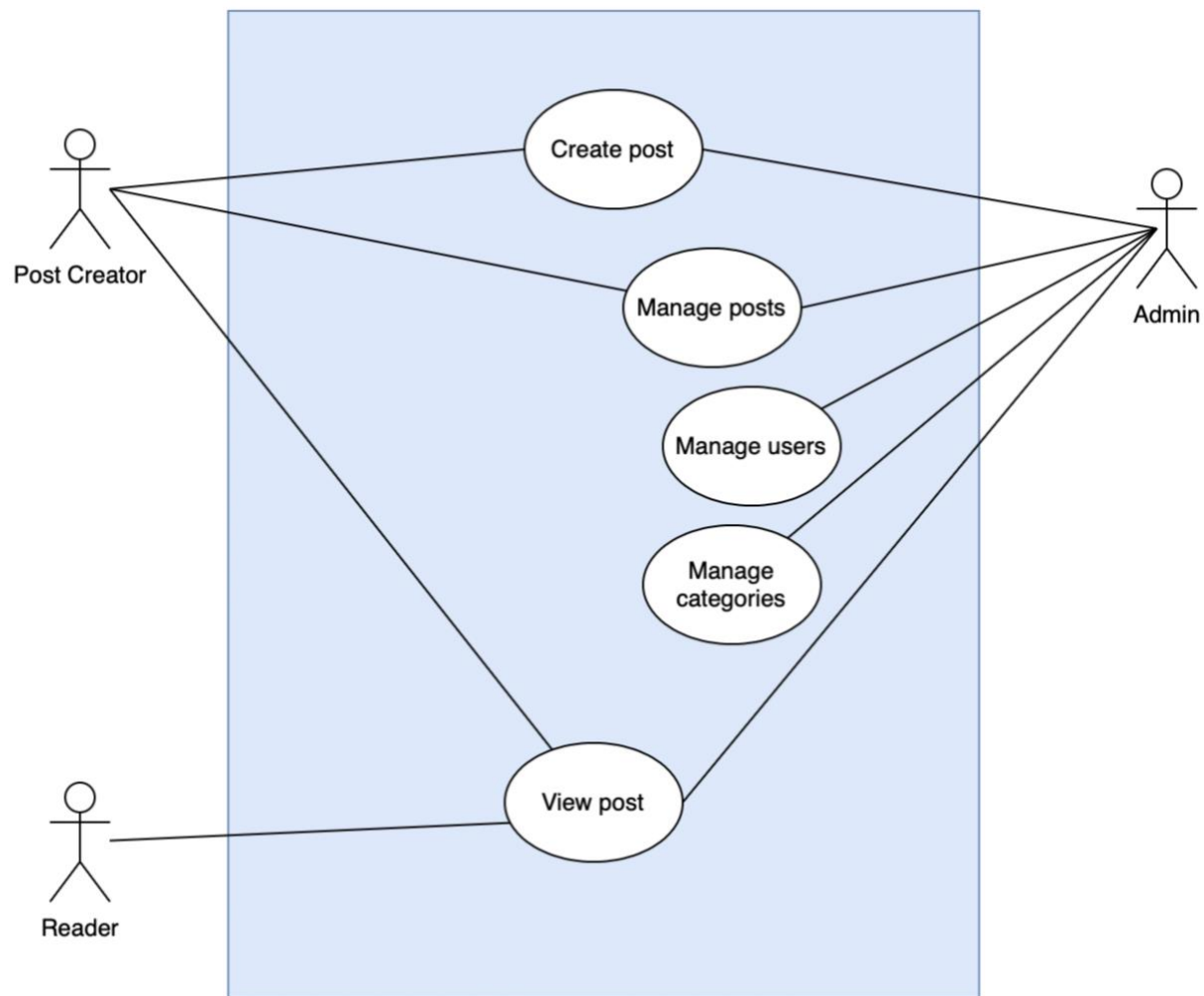
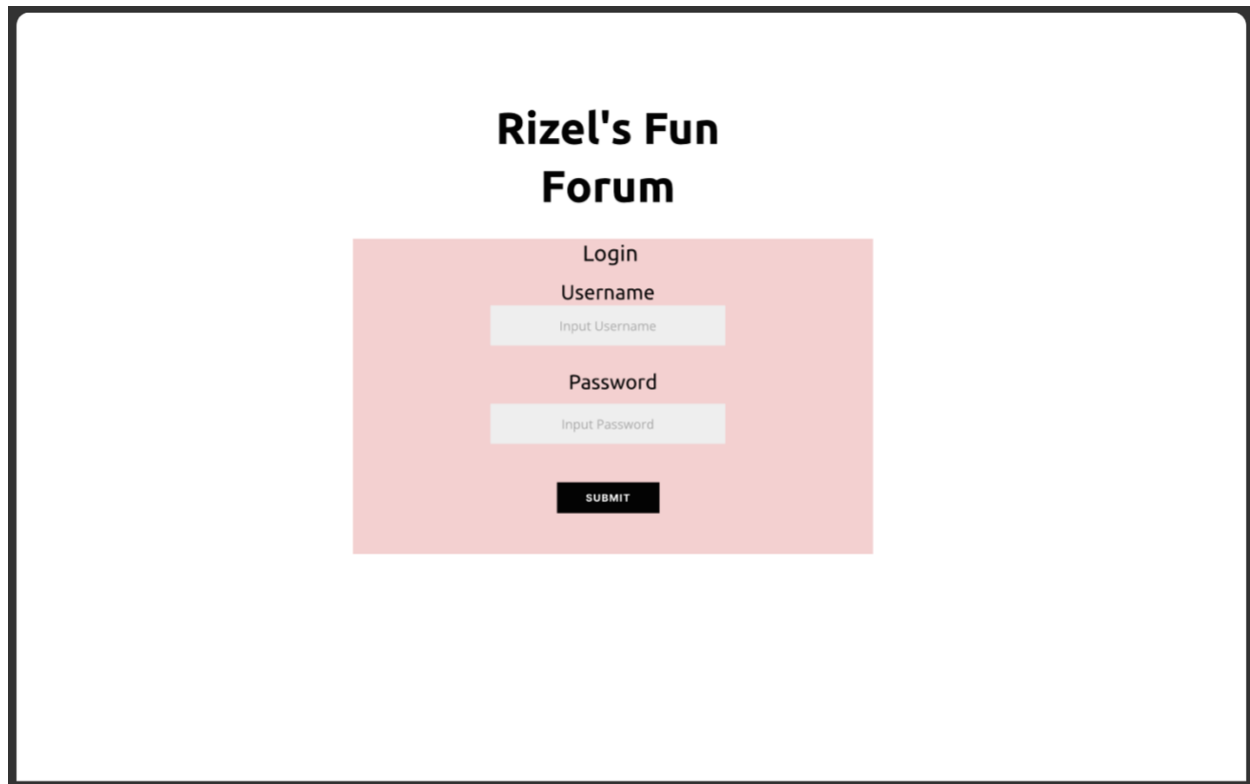


Figure 1: Use case diagram for the forum

The use case diagram depicts the exchanges that take place between the forum and the actors. In this case the actors would be the reader, admin, and post creator. The admin has the ability to view posts, create new posts, manage posts made by everyone including themselves, manage the users on the forum and manage the categories. The post creator just like the admin can create new posts, manage posts only made by them and view everyone posts. The reader would only be able to view other posts.

Wireframes

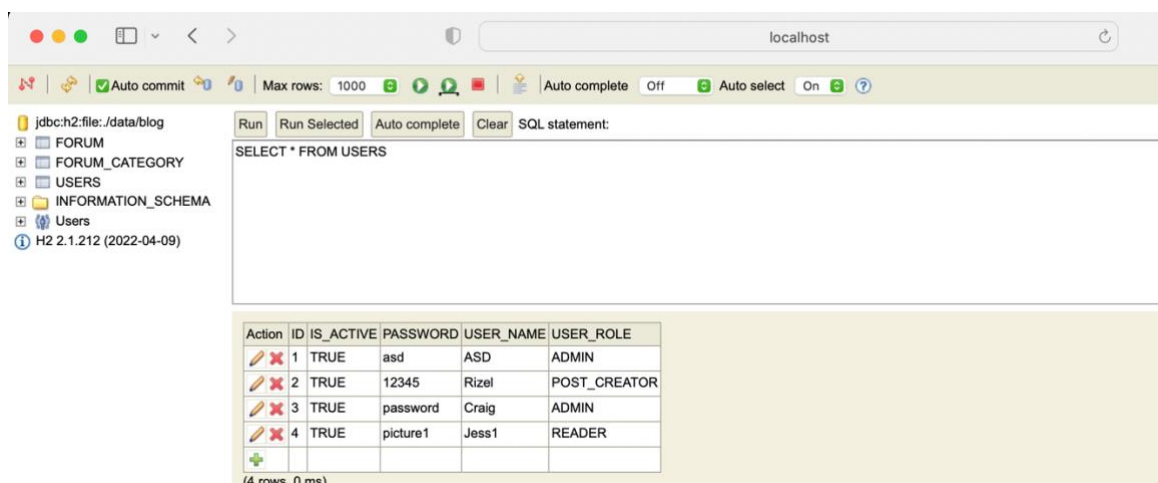
This is the login page for the forum, the user must have a login. The forum can be accessed by the admins, readers, and post creators with logins.



The wireframe shows a login page for 'Rizel's Fun Forum'. The title 'Rizel's Fun Forum' is centered at the top. Below it, the word 'Login' is centered. There are two input fields: 'Username' with a placeholder 'Input Username' and 'Password' with a placeholder 'Input Password'. A black 'SUBMIT' button is centered below the password field. The entire login form is enclosed in a light red rectangular box.

Figure 2: Rizel's Fun Forum Login page

If the user does not have a login they can only be added directly through the admin or through the database as seen below. The link to access the database is <http://localhost:8080/h2> and the username and password for the database is just cms.

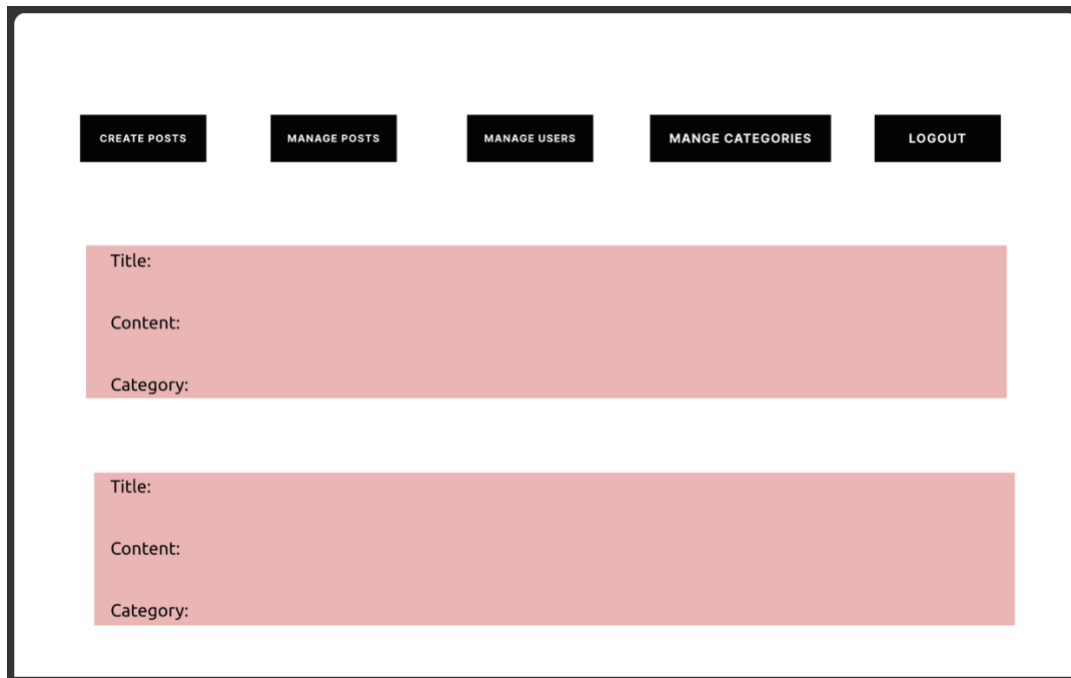


The screenshot shows a web browser window at localhost with the H2 database console. The left sidebar shows the database structure: jdbc:h2:file:./data/blog, FORUM, FORUM_CATEGORY, USERS, INFORMATION_SCHEMA, and Users. The main area shows the SQL statement 'SELECT * FROM USERS' and its results. The results table has columns: Action, ID, IS_ACTIVE, PASSWORD, USER_NAME, and USER_ROLE. There are 4 rows of data.

Action	ID	IS_ACTIVE	PASSWORD	USER_NAME	USER_ROLE
	1	TRUE	asd	ASD	ADMIN
	2	TRUE	12345	Rizel	POST_CREATOR
	3	TRUE	password	Craig	ADMIN
	4	TRUE	picture1	Jess1	READER

(4 rows: 0 ms)

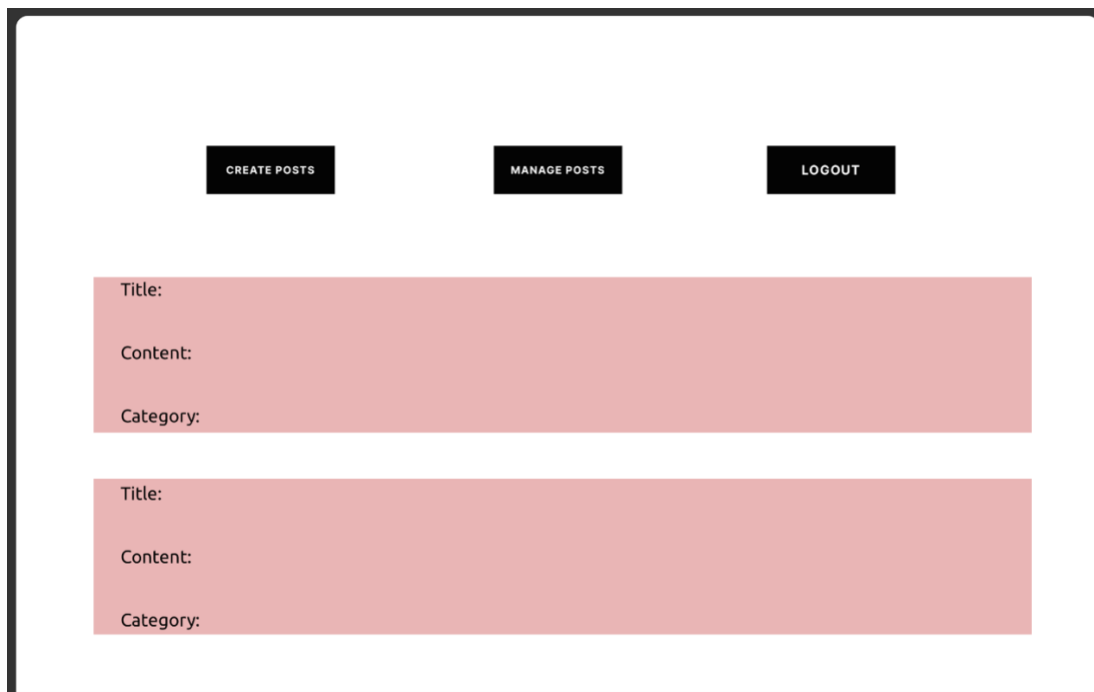
Figure 3: The Forum database (User table)



The Admin's Main page features a top navigation bar with five black buttons: 'CREATE POSTS', 'MANAGE POSTS', 'MANAGE USERS', 'MANGE CATEGORIES', and 'LOGOUT'. Below this, there are two identical form sections. Each form section consists of a light red rectangular area with three labels: 'Title:', 'Content:', and 'Category:'.

Figure 4: Admin's Main page

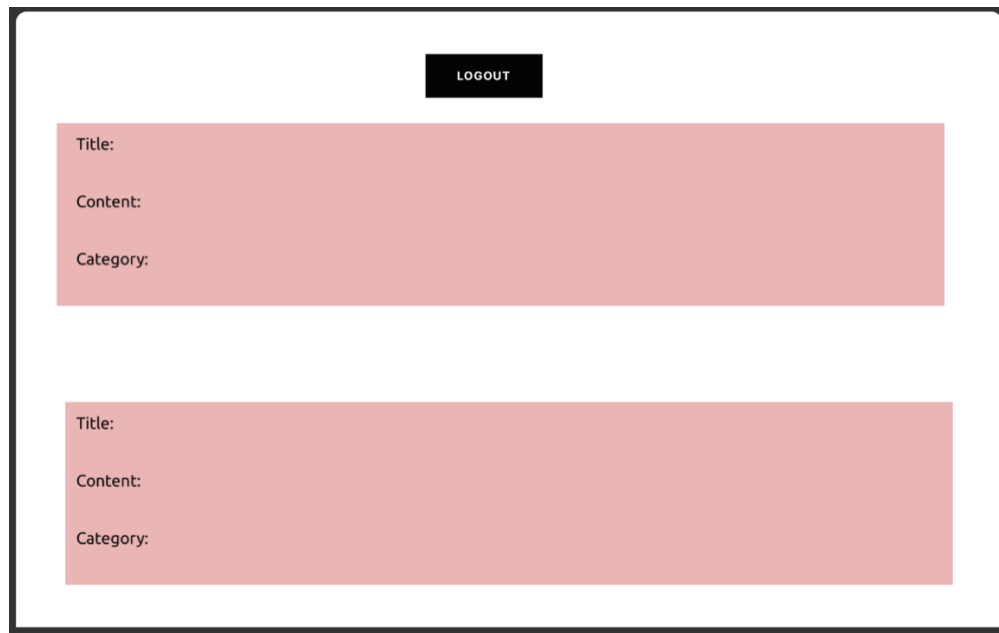
The admin's main page shows previous posts made and approved and at the top of the screen has options for the admin to create posts, manage posts made by them and other users, manage users, manage categories and logout. Logging out will redirect all users to the login page.



The Post creator's Main page features a top navigation bar with three black buttons: 'CREATE POSTS', 'MANAGE POSTS', and 'LOGOUT'. Below this, there are two identical form sections. Each form section consists of a light red rectangular area with three labels: 'Title:', 'Content:', and 'Category:'.

Figure 5: Post creator's Main page

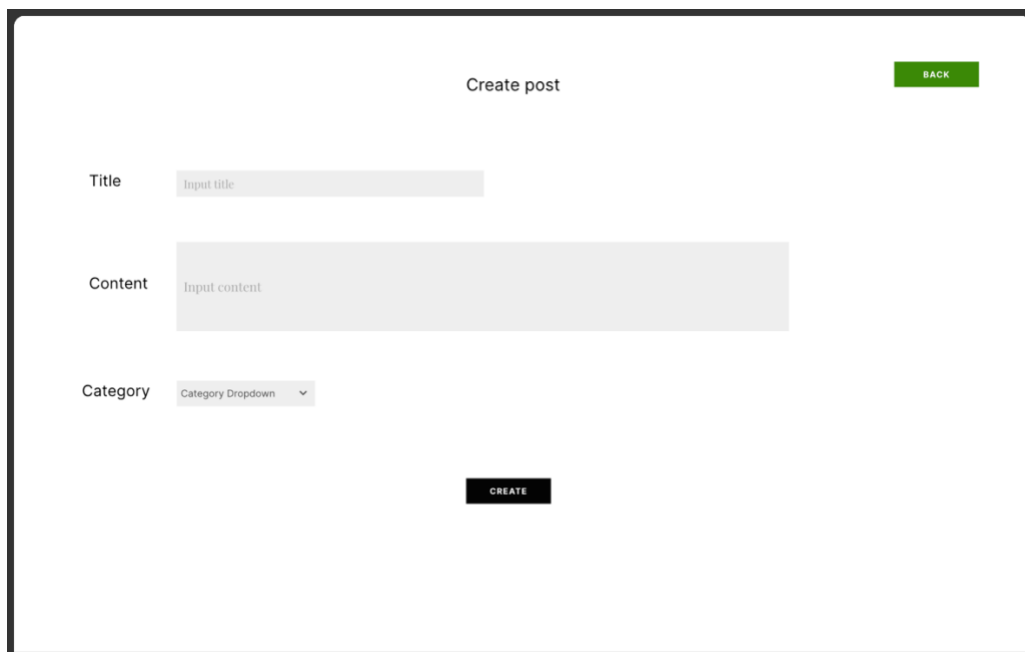
Post creator's main page also shows pervious posts made and approved by the admin, at the top of the screen they also have options to create posts, manage posts that only they've made and logout.



The mockup shows a rectangular frame representing a web page. At the top center is a black button with the text "LOGOUT" in white. Below this, there are two identical, vertically stacked red rectangular boxes. Each box contains three labels: "Title:", "Content:", and "Category:", arranged vertically. These labels are positioned on the left side of each box, with the rest of the box being empty, suggesting input fields.

Figure 6: Reader's Main page

The reader main page only displays posts made by other users, the reader will only have an option to logout as they are not a post creator or admin.



The mockup shows a rectangular frame representing a web page. At the top center is the text "Create post". In the top right corner is a green button with the text "BACK" in white. Below the "Create post" text, there are three form elements: a "Title" label followed by a light gray input field with the placeholder text "Input title"; a "Content" label followed by a larger light gray input field with the placeholder text "Input content"; and a "Category" label followed by a light gray dropdown menu with the text "Category Dropdown" and a downward arrow. At the bottom center of the page is a black button with the text "CREATE" in white.

Figure 7: Create a post page

The create a post page can be accessed by admins and post creators from the main page , it allows them to create a post by inputting the title, content and using the category drop down to use the pre-added category.

Manage Posts

BACK

Title:

Content:

Category:

DELETE UPDATE

Title:

Content:

Category:

DELETE APPROVE REJECT

Figure 8: Manage posts page for the Admin

This is the manage posts page for the admin that can only be accessed from the main page , this is where they can see the posts that have been made by themselves or other users. When a post creator or admin creates a post before it gets added to the main page the admin has to decide whether they want to approve or reject the post. Admins also have an option to edit/update posts made by them or other users.

Manage Posts

BACK

Title:

Content:

Category:

DELETE UPDATE

Figure 9: Manage posts page for the Post creator

The posts creators only have the option to delete and edit/update posts made by them.

ADD USER

BACK

Username:

User Role:

DELETE

UPDATE

Username:

User Role:

DELETE

UPDATE

Figure 10: Manage Users page for the Admin

This is the page in charge of managing users, this page can only be accessed by admins from the main page. The manage users page displays all the users by the username and user role, the admin will also see two buttons under the username and user role, one would be to delete the user and one would be to update the user. Deleting the user will remove the user from the website and the database, so the user will no longer be able to login. At the top of the screen there is a button that allows the admin to add users. When clicked it redirects the admin to a add user page. As seen below.

Add User

BACK

Username Input username

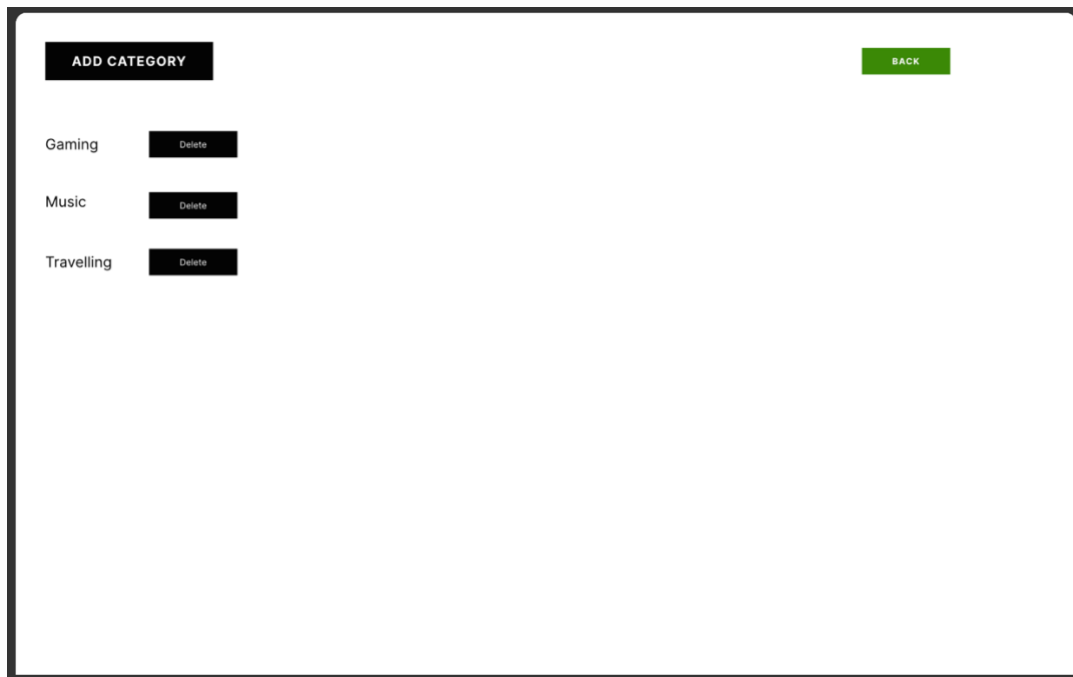
Password Input password

User Role Dropdown

CREATE

Figure 11: Add User page

The add user page allows the admin to add a user by letting them input a username, password and selecting a user role from the drop down. The users role can be a admin, reader or post creator.

A screenshot of a web application interface for managing categories. At the top left is a black button with white text that says "ADD CATEGORY". At the top right is a green button with white text that says "BACK". Below these, there is a list of three categories: "Gaming", "Music", and "Travelling". Each category name is followed by a black button with white text that says "Delete".

Category	Action
Gaming	Delete
Music	Delete
Travelling	Delete

Figure 12: Manage categories page

The manage categories page can only be accessed by admins from the main page. On this page the admins have an option to delete existing categories or at the top of the screen thee have an option to add a category. When the button is clicked it redirects the admin to a add category page. As seen below.

A screenshot of a web application interface for adding a new category. At the top left is the text "Add Category". At the top right is a green button with white text that says "BACK". Below this, there is a label "Category name" followed by a light gray input field with the placeholder text "Input category name". At the bottom left is a black button with white text that says "ADD CATEGORY".

Form Element	Value / Label
Page Title	Add Category
Category name	Input category name
Action Button	ADD CATEGORY

Figure 13: Add category page

The add a category allows the admin to input a new category so users creating posts can make use of it.

Justification of other choices

For each of the different pages on the forum I kept the background a plain white as cleanliness, brightness, and simplicity are some qualities that white might imply, although on each of the pages the background has a nice + design. The color of design changes on every page to give the website a more fun and welcoming appearance. Other than the colors, the website was kept quite simple, so no use of images or animations have been used.