



Technical Interview

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Ganiam Tech Backend Developer Interview Instructions

Welcome to the Ganiam Tech Backend Developer Interview. We are thrilled to have you participate in our recruitment process. At Ganiam Tech, we are passionate about delivering exceptional digital solutions tailored to our clients' needs. Our commitment to custom design, innovative technology, and seamless user experiences has made us a trusted partner for businesses across various industries.

About Ganiam Tech

Ganiam Tech is a leading technology company specializing in custom website design and development. Our approach is centered around understanding our clients' unique challenges and crafting bespoke solutions that align with their brand and business objectives. We pride ourselves on not relying on templates, ensuring that each project we undertake is a true reflection of our clients' vision and identity.

Our portfolio includes a diverse range of projects, from law firms and hotels to charity organizations and e-commerce platforms. We have consistently delivered dynamic and visually appealing websites that not only meet but exceed our clients' expectations. At Ganiam Tech, we believe that our success is driven by the talent and dedication of our team, and we are always on the lookout for skilled professionals who share our passion for excellence.

Interview Process Overview

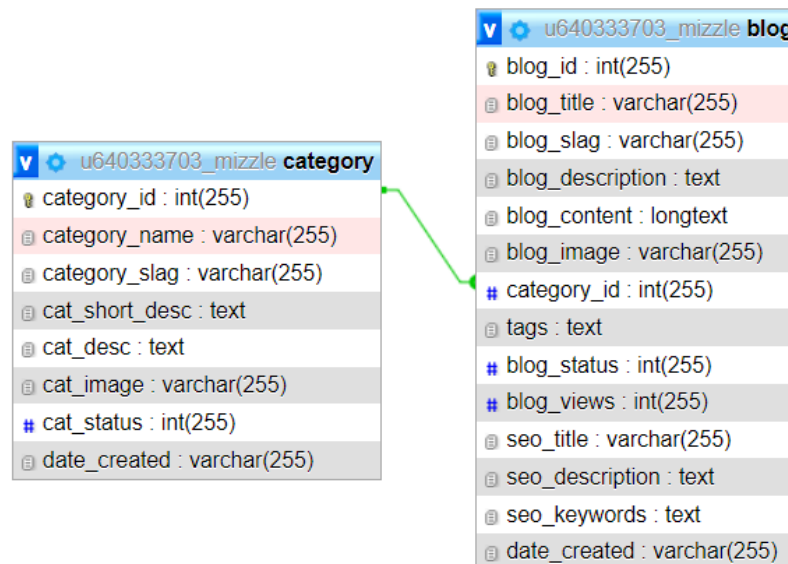
This interview is designed to assess your technical skills, problem-solving abilities, and fit within our company culture. You will be evaluated on various aspects of backend development, including but not limited to database design and server-side logic. We encourage you to demonstrate your thought process and coding standards throughout the interview.

Case Study

Mizzle is a company operating in the financial industry. They currently have a blog website to post company news, insights and blogs. They have reached out to us for assistance in correcting and fine-tuning some of their existing code. As part of this project, you will be tasked with resolving specific issues and ensuring the smooth functionality of their application. The project is built using raw PHP.

Project Overview

You have been provided with the database schema for Mizzle, represented by the entity-relationship diagram (ERD) below:



This diagram outlines the database design you will be working with.

The project files are organized as follows:

- **Admin Pages:** Located in the admin folder.
- **Admin Login:** To log in as an admin, navigate to admin/index.php.
- **Database Connection:** Managed in the includes/connect.php file.

Tasks

Task 1: Fix Category Description Display

On the admin/categories.php page, there is a button that triggers a modal. However, the category descriptions are not being displayed as expected. Your task is to modify the code so that the correct category description from the database is shown within the modal.

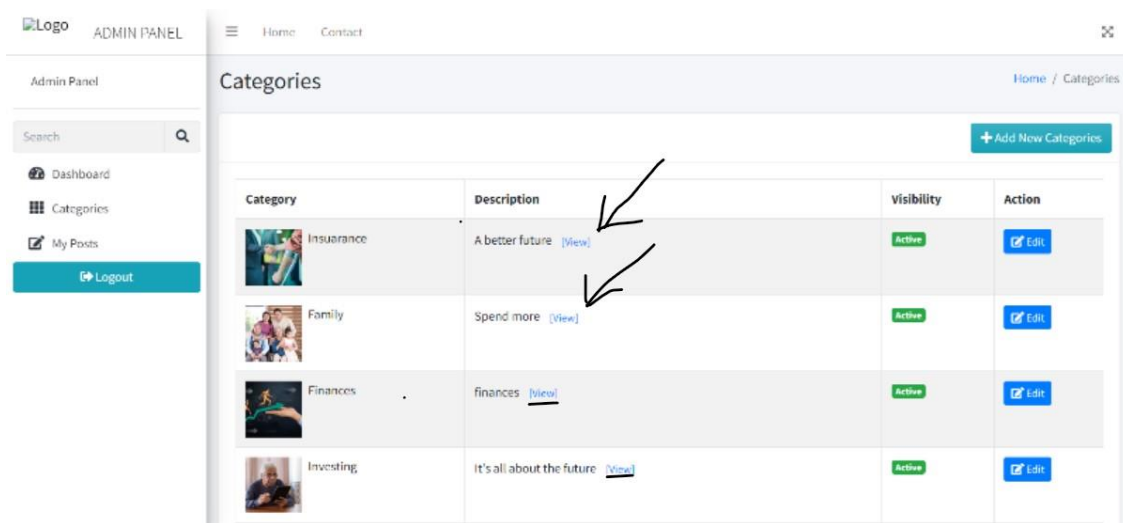


Figure 1 View Buttons to show modal

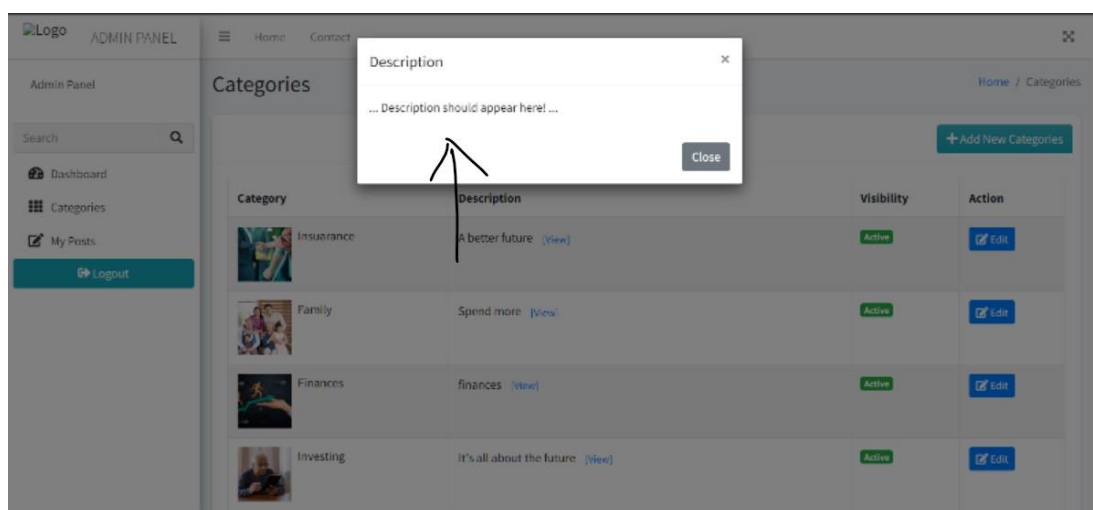
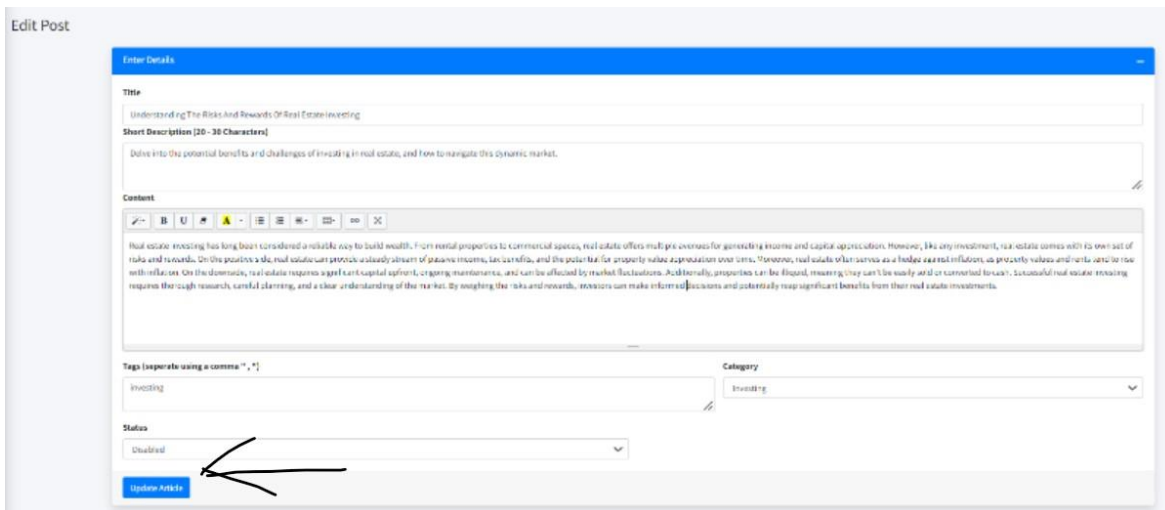


Figure 2 The modal that will show the description

Task 2: Enable Blog Editing and Saving

On the admin/edit-blog.php page, there is a form to edit the details of a blog. Your task is to ensure that this form is functional. It should correctly submit the edited details and save the changes in the database.



The screenshot shows a web form titled "Edit Post" for editing a blog entry. The form has a blue header bar with the text "Enter Details". Below the header, there are several input fields: "Title" (containing "Understanding The Risks And Rewards Of Real Estate Investing"), "Short Description (20 - 30 Characters)" (containing "Dive into the potential benefits and challenges of investing in real estate, and how to navigate this dynamic market."), and "Content" (containing a paragraph about real estate investing). Below the content field, there are "Tags" (containing "Investing") and "Category" (containing "Investing"). At the bottom, there is a "Status" dropdown menu (currently set to "Draft") and a blue "Update Article" button. A black arrow points to the "Update Article" button.

Figure 3 Edit Blog Page

Task 3: Display Correct Blogs with Categories

On the index.php page, the blogs should be displayed with their corresponding categories. Currently, the correct blogs are not being shown. You need to ensure that each blog is retrieved from the database and displayed with the appropriate category, as shown in the layout below.

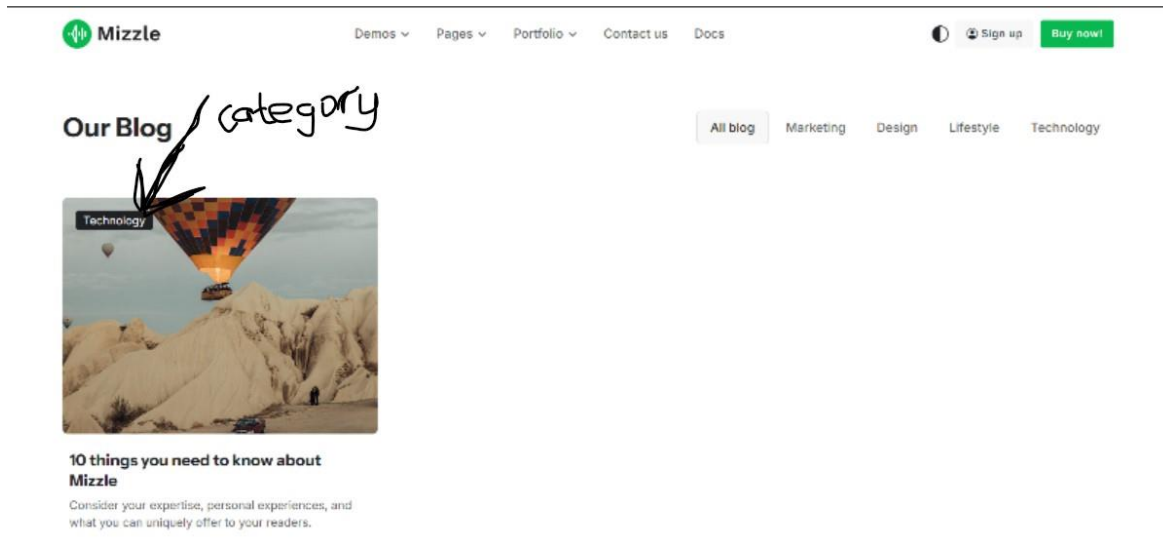


Figure 4 index.php page. Blogs with respective category names should appear here.

Please carefully review the provided files and make the necessary corrections. You are encouraged to follow best practices in PHP and ensure that your code is clean, efficient, and well-documented.

The deadline for this interview project is **11:59 PM, Friday, 23rd August 2024**. Please ensure that you complete and submit your work by this time.

Your submission will be made via a Google Form, which includes a few additional questions that we ask you to fill out before the deadline. The form can be accessed at the following link: <https://forms.gle/bBuJZmu2X1P9axKM8>

Please compress your completed project into a ZIP file and upload it through this Google Form:

GOOD LUCK!