

WEB FORUM IN GOLANG

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MAIN GOALS

Ask and answer questions seamlessly

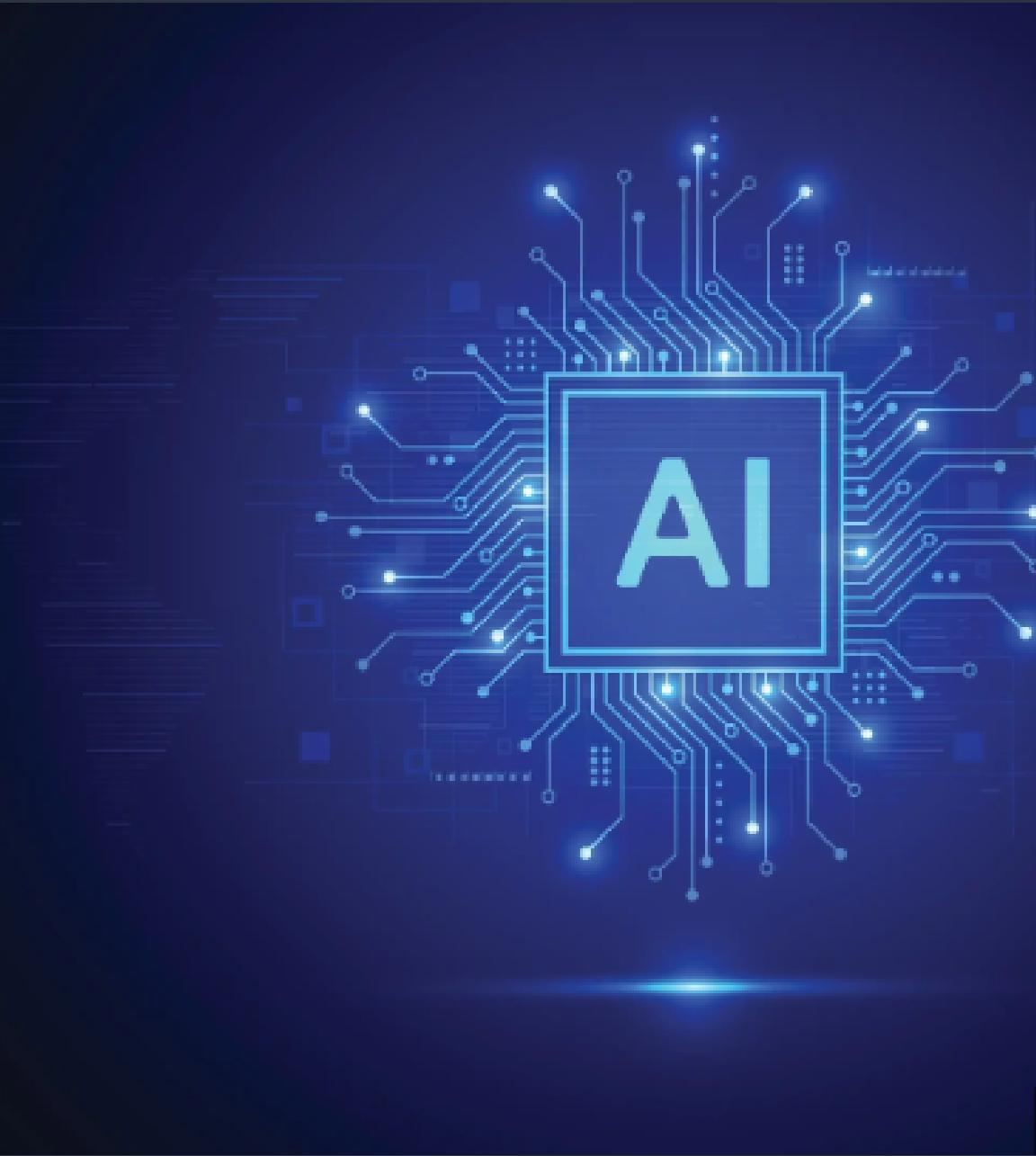
Engage with a supportive community

Gain insights and share expertise

- A dynamic web application where users can ask questions and provide answers to help others.
- Built to foster a collaborative environment, our platform encourages knowledge sharing and meaningful discussions.

Project Relevance

In the digital age, artificial intelligence like ChatGPT can provide instant answers to questions. However, our project will focus on creating a platform where users can not only receive answers, but also actively participate in discussions, share personal experiences, and receive feedback from other community members. This allows for a deeper understanding of issues and contextual nuances, which AI, despite its power, cannot always achieve. The platform will also be useful for expert opinions and discussions, which will add value in the field of education, career and other specific topics.



Objectives



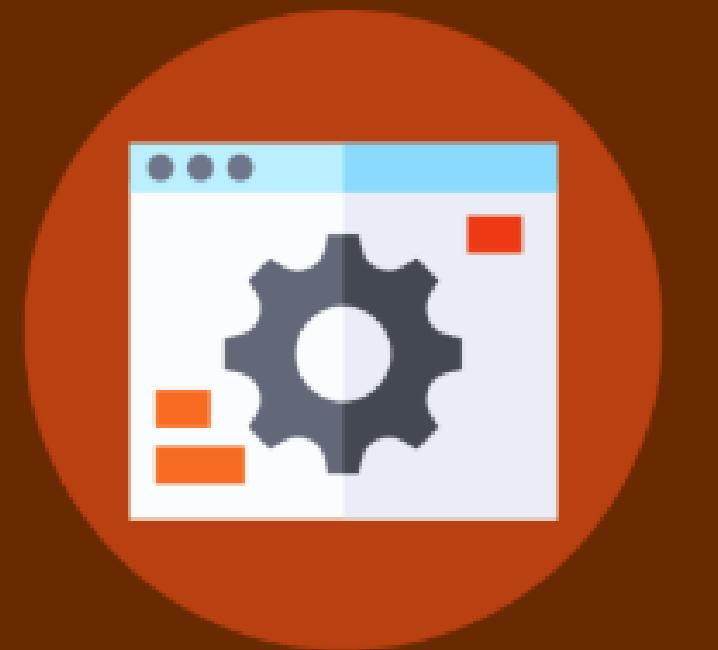
- 1 Build a Scalable Platform
- 2 Implement RBAC
- 3 Enhance User Engagement
- 4 Third-Party Authentication
- 5 File upload and Categorization

Project Features

Overview of Key Features

- **Categories** : Admin-managed categories help organize posts effectively.
- **Role Management** : Three distinct roles—Admin, Moderator, and User—with unique responsibilities.
- **Post Approval System** : Moderators approve/reject posts; they can also report suspicious content to admins.
- **Feedback Mechanism** : Users can like and comment on posts, fostering community interaction.
- **Notifications** : Real-time updates about post approvals, feedback, and reports.
- **Third-Party Sign-In** : Easy login via Google or GitHub without manual registration.

Technical Overview



Backend



Frontend

Backend

Go / ES6

Echo + Validator

PostgreSQL

Session Cookies

Multipart Form

BCrypt

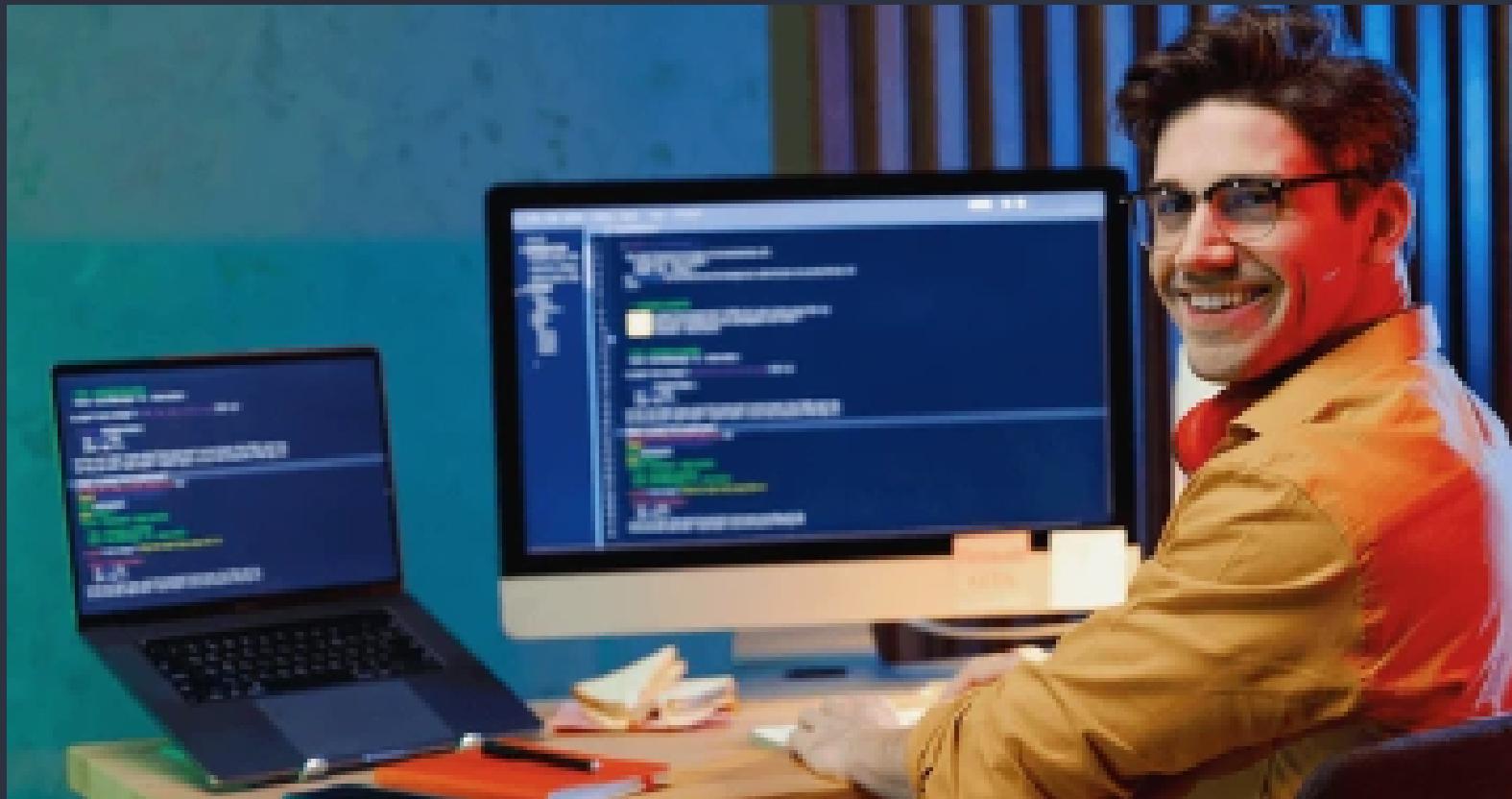
Frontend

HTML

css

JS

Golang template



Customer

Viewing and creating posts
Commenting and rating (like/dislike) posts and comments
Register, log in, and log out of your account
Edit your profile and change your password
Notifications about actions on the platform
Apply for the moderator role

User Experience

Moderator

Access to the moderation panel
Approving or rejecting posts
Deleting comments
Managing complaints about posts
Community support through content quality control

Admin

User management (promotion and downgrade of roles)
View and manage all complaints
Category management (adding, updating, and deleting)
Full control over content and users

Admin

Forum

Home Create post

Logout Profile

Pending user requests

ID	Name	Email	Role	Action
2	BRUH	zwafipbvmiroxzqddl@poplk.com	moderator	Promote Demote

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Category Management

New category name

Add

2	Rauan memes	Delete
1	Shyngys memes	Delete

User role management

ID	Name	Email	Role	Action
2	BRUH	zwafipbvmiroxzqddl@poplk.com	moderator	Promote Demote
3	whoami	whoami@gmail.com	pending_moderator	Promote Demote

Moderator

Forum

Home Create post

Logout Profile

Report submitted successfully!

Latest Posts

Select Category: Ruan memes Sort

Title	Category	Created	Author	ID	Action
I am Ben	Shyngys memes	16 Feb 2025 10:06	whoami	#7	<p>report content</p> <p>Report to Admin</p>

Moderation Panel

Posts Pending Approval

This is new post of whoami
post content
Author: whoami

Approve

Delete

Customer

 Forum

Home Signup Login

Email:
This field must be a valid email address

john

Password:
This field cannot be blank

New Password:

Apply new Password:

Change Password

Login

Login with Google

Login with Github

Name: whoami
Email: whoami@gmail.com
Role: user
Apply to be Moderator
Password: *****
Change Password

Current Password:

Post content

Upload File: Выбор файла Не выбран ни один файл

Category: Rauan memes

Your Posts

ID	Title	Created	Modify
#7	I am Ben	16 Feb 2025 10:06	Edit Delete

Your Comments

Home Create post

Logout Profile

Title:
This is new post of whoami

Content:
post content

Upload File: Выбор файла Не выбран ни один файл

Category: Rauan memes

Feedback & Interaction

I am Ben
not Affleck

Category: Shyngys memes

Created: 16 Feb 2025 10:06

Author: whoami

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Comments

No comments yet. Be the first to comment!

[Add a Comment](#)

Comment:

Comment content here

[Add Comment](#)

Home Create post

Logout Profile

Your Notifications

BRUH disliked your post Feb 12, 2025 19:00

BRUH liked your comment Feb 12, 2025 19:00

BRUH disliked your comment Feb 12, 2025 19:00

BRUH commented on your post Feb 12, 2025 19:00

BRUH commented on your post Feb 12, 2025 18:59

BRUH liked your post Feb 12, 2025 18:49

Future development

Home Page
Display the latest
questions and popular
topics.

Voting System
Users can upvote or
downvote questions
and
answers. Promotes
the best content to
the top.

User Profiles
Personal profiles to
track activity.
Display of questions
asked, answers
provided, and
reputation score.

CONCLUSION



Our web forum is more than just a platform for asking and answering questions — it's a space for meaningful connections, knowledge sharing, and collaborative learning. By combining a user-friendly interface, secure authentication, and role-based access, we've created a system that supports both community engagement and content moderation. As we move forward, we aim to enhance the platform with new features, optimize performance, and continue fostering a positive and supportive online environment. Together, we're building a community where everyone has a voice and the opportunity to learn and grow.