

# HU MINI ASSIGNMENT

## Bloggng Platform

### Objective

The objective of this project is to develop a set of RESTful APIs for a blogging platform. These APIs will enable users to perform various operations such as user registration, login, role assignment, blog post management, and comment management. The APIs will ensure secure, efficient, and scalable interactions between the client applications and the server, adhering to best practices in API design and implementation.

### User Types and Their Functionalities

#### 1. Subscribers

- **Read Blog Posts:** Subscribers can access and read all blog posts published by bloggers.
- **Comment on Blog Posts:** Subscribers can engage with the content by leaving comments on blog posts.
- **Edit or Delete Comments:** Subscribers can edit or delete their own comments.
- **No Editing or Deleting Posts:** Subscribers do not have permissions to write, edit, or delete any blog posts.

#### 2. Bloggers

- **Subscriber Capabilities:** Bloggers can do everything that subscribers can.
- **Manage Blog Posts:** Bloggers can write, edit, publish, and delete their own blog posts.

#### 3. Admins

- **Subscriber and Blogger Capabilities:** Admins can do everything that subscribers and bloggers can.
- **Manage Users:** Admins can manage both bloggers and subscribers, including the ability to delete user accounts if necessary.
- **Moderate Blog Posts:** Admins can review blog posts and delete any that violate community guidelines or terms of service.
- **Assign Roles:** Admins have the authority to assign roles to users, designating them as bloggers, subscribers, or other admins.

## Functionalities to be Implemented

1. **User Registration:** Users should be able to register on the platform by providing necessary details such as username, email, and password. Upon registration, users can be assigned a default role as Subscriber, which can be changed later by an admin.
2. **User Login:** Registered users should be able to log in to the platform using their credentials (username/email and password).
3. **Role Assignment:** Admins should be able to assign roles to users, determining whether they are bloggers, subscribers, or other admins..
4. **Managing Permissions Based on Roles:** Implement role-based access control (RBAC) to ensure that users can only perform actions permitted by their roles. For example, only bloggers should have access to writing, editing, and deleting their own posts, while subscribers can only read and comment.
5. **Password Reset:** Users should have the ability to reset their passwords.