**Assignment # 2**

**Submitted By:**

**Names** Umair Asghar

**Roll no.** SP24-BCS-093

**Date** 4-7-2025

**Submitted To:**

Mam Mamona Alam

***Project :***

***“Simple Blog Website”***

To design a use case diagram for the "Simple Blog Website" project, we will first determine the use cases, actors, and then design a diagram based on the functionalities of the system.

Actors:

**1. Visitor** - An individual who reads blog posts but is not logged in.

**2. User** - A registered user who has logged into the website.

**3. Blogger** - A user with rights to create, edit, and publish blog posts.

**4. Admin** - A user with the maximum level of permissions, such as managing users, posts, comments, and system settings.

**Use Cases:**

1. **Visitor:**
   * **View Posts**: A visitor can browse and view blog posts.
   * **Search Posts**: A visitor can search for posts by category, title, or tags.
   * **Comment on Posts** (if authenticated): A visitor can leave a comment on blog posts if they are logged in.
   * **Share Posts**: A visitor can share blog posts on social media.
2. **User (Authenticated Visitor):**
   * **View Posts**: A logged-in user can view blog posts.
   * **Search Posts**: A user can search for posts by category, title, or tags.
   * **Comment on Posts**: A user can post comments on blog posts.
   * **Edit Profile**: A user can edit their profile, including name, email, and password.
3. **Blogger:**
   * **Create Post**: A blogger can write a new blog post.
   * **Edit Post**: A blogger can edit their own blog posts.
   * **Delete Post**: A blogger can delete their own blog posts.
   * **Publish Post**: A blogger can publish their blog posts.
   * **Manage Comments**: A blogger can delete offending comments on their posts.
4. **Admin:**
   * **Manage Posts**: An admin can edit, delete, or moderate all blog posts.
   * **Manage Users**: An admin can manage users (edit roles, promote, delete, etc.).
   * **Moderate Comments**: An admin can delete or manage all comments across posts.
   * **View Dashboard**: An admin can view a dashboard with system statistics like total posts, users, comments, etc.
   * **Backup System**: An admin can manage the backup and recovery process for the website.

**Use Case Diagram:**

A use case diagram visually represents these actors and their associated use cases. Here’s a description of the diagram layout:

1. **Actors** will be represented as stick figures (Visitor, User, Blogger, Admin).
2. **Use cases** will be represented as ellipses with text inside (e.g., “View Posts”, “Create Post”, “Manage Users”).
3. **Relationships** (associations) between actors and use cases will be shown as lines connecting the actors to the use cases.

For simplicity,I will describe a textual version of the diagram below:

**• Visitor:**

o View Posts

o Search Posts

o Share Posts

o Comment on Posts (if authenticated)

**• User** (Authenticated Visitor):

o View Posts

o Search Posts

o Comment on Posts

o Edit Profile

• **Blogger:**

o Create Post

o Edit Post

o Delete Post

o Publish Post

o Manage Comments

**• Admin:**

o Manage Posts

o Manage Users

o Moderate Comments

o View Dashboard

o Backup System

**Creating the Use Case Diagram:**

