**Experiment-No.1**

**Objective:** Prepare an SRS document in line with the IEEE recommended standards for the specified Case Study. (Functional Requirements)

**Online Blogging System**. These requirements define the features and behaviors that the system must implement to enable users to achieve their goals. Here are some functional requirements for a blogging system:

1. **User Registration and Authentication**:
   * The system must allow users to **register** by providing necessary details (such as username, email, and password).
   * Users should be able to **log in** using their credentials.
   * The system must verify user accounts through email or phone number.
2. **Blog Creation and Management**:
   * Users should be able to **create new blogs** by writing content, adding images, and formatting text.
   * Blogs can be categorized into different topics or themes (e.g., technology, lifestyle, travel).
   * Authors can **edit**, **update**, or **delete** their own blogs.
   * The system should support **drafts**, allowing authors to save incomplete blog posts.
3. **Commenting System**:
   * Readers can leave comments on blog posts.
   * Authors can moderate comments (approve, delete, or mark as spam).
   * Comments may include features like **replies**, **likes**, and **reporting inappropriate content**.
4. **Search and Navigation**
   * Users should be able to search for blogs based on keywords or categories.
   * The system must provide a user-friendly navigation menu for easy access to different sections (e.g., home, categories, archives).
5. **User Profiles and Social Sharing**:
   * Each user has a public profile displaying their authored blogs.
   * Blogs can be shared on social media platforms (e.g., Facebook, Twitter) directly from the system.
6. **Notifications and Subscriptions**:
   * Users receive notifications for new comments on their blogs or replies to their comments.
   * Readers can subscribe to specific blogs or categories to receive updates via email.
7. **SEO Optimization**
   * The system should generate SEO-friendly URLs for each blog post.
   * Meta tags (title, description) should be automatically generated based on blog content.
8. **Analytics and Reporting**:
   * Authors can view statistics such as page views, unique visitors, and engagement metrics.
   * Popular blogs and trending topics can be highlighted.
9. **Responsive Design**:
   * The system must work seamlessly across different devices (desktops, tablets, mobile phones).