JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, SECTOR-62, NOIDA

B. TECH 2ND SEMESTER

A logo with a torch and globe

AI-generated content may be incorrect.

SOFTWARE DEVELOPMENT FUNDAMENTALS LAB

MINI PROJECT SYNOPSIS

TOPIC: **USER BLOG MANAGEMENT SYSTEM**

BATCH: A8

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**ABSTRACT OF THE PROJECT**

This is a comprehensive User Blog Management System designed to streamline content creation and organization in the digital space. The system implements core functionalities including user authentication, post creation and management, commenting capabilities, and content categorization through tags, all built using C++.

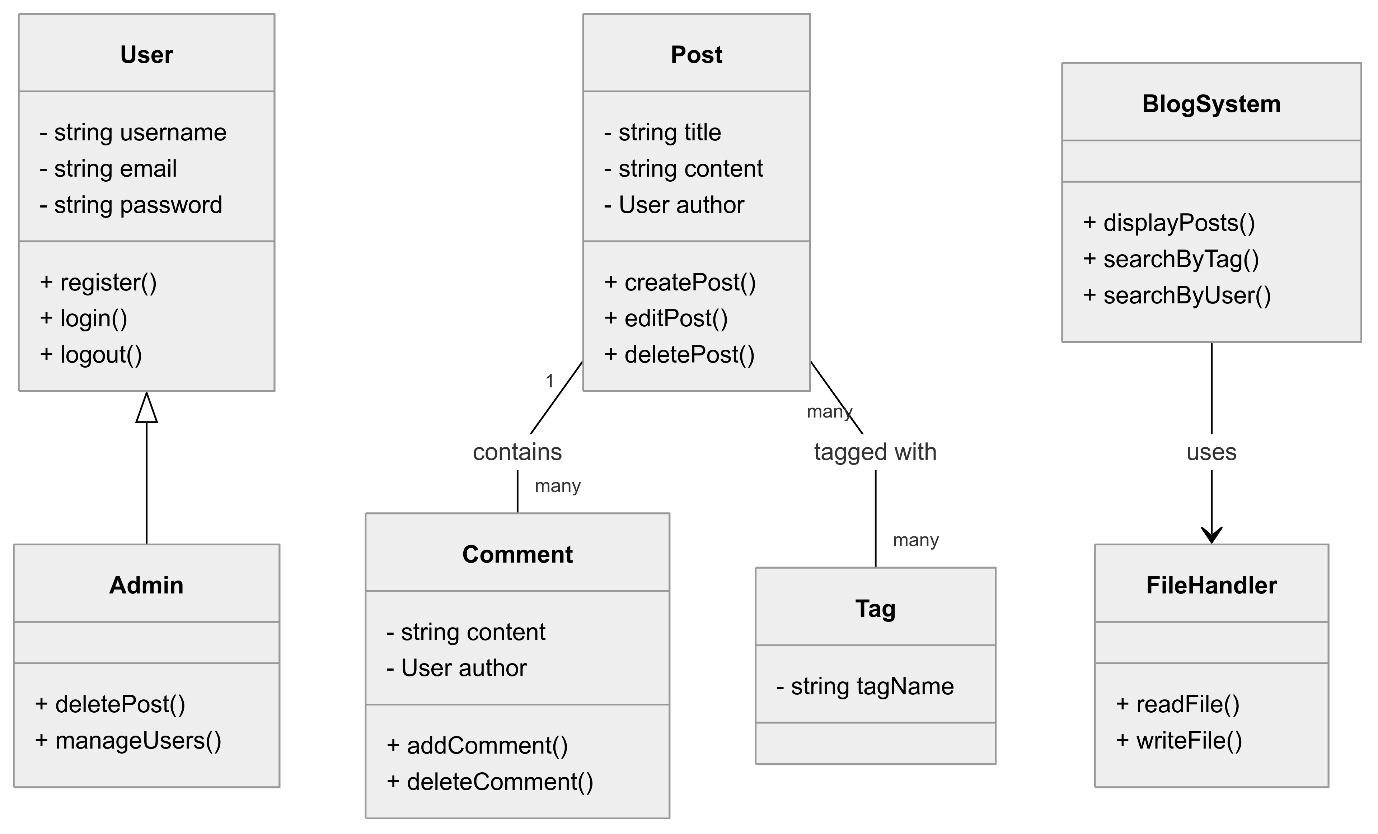
The project follows a structured development approach using the System Development Life Cycle (SDLC) methodology, encompassing phases from initiation through maintenance. It emphasizes secure user management through encryption for passwords, modular code organization for different functionalities, and a command-line interface that allows users to interact with various features seamlessly, demonstrating practical application of object-oriented programming principles.

The architecture of the system is maintainable and scalable, with separate modules for different functionalities such as user management, post operations, commenting systems, and tag management. The implementation demonstrates object-oriented programming principles, file handling and error handling, and also includes educational goals such as using programming concepts in real-world applications and learning practical software development skills. The project is both a learning tool and a working content management system.

**TOPICS OF SDF-II USED**

* Object-Oriented Programming
  + Encapsulation
  + Inheritance
  + Polymorphism
* UML Class Diagram
* Exception Handling

**UML CLASS DIAGRAM**

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