

# Secure Document Sharing Portal

The Secure Document Sharing Portal is a web-based platform designed to facilitate the secure exchange of sensitive documents among users. Key features include robust user authentication, end-to-end encryption for document transfers, granular access controls, and secure document storage. Users can upload, share, and download documents with confidence, knowing that their data is protected at all times. The platform also offers an intuitive user interface and performance optimizations for seamless document management.

## Features:

1. **User Authentication:** Implement user authentication system with registration, login, and password recovery functionalities.
2. **Document Upload:** Allow users to securely upload documents to the platform. Ensure that uploaded documents are encrypted for security.
3. **Document Sharing:** Enable users to share documents securely with other users or groups. Implement access controls to restrict document access.
4. **End-to-End Encryption:** Ensure that all document transfers are encrypted using industry-standard encryption algorithms to protect data in transit.
5. **Access Controls:** Implement granular access controls, allowing document owners to specify who can view, edit, or download their documents.
6. **Secure Storage:** Store documents securely on the server, utilizing encryption and access controls to prevent unauthorized access.
7. **Audit Trail (Optional):** Log all document access and modification events to provide an audit trail for compliance and security purposes.
8. **User Interface:** Design an intuitive user interface for seamless document upload, sharing, and management.
9. **Security Measures (optional):** Implement security best practices such as HTTPS, CSRF protection, and input validation to prevent common vulnerabilities.
10. **Performance:** Optimize the platform for performance, ensuring fast upload and download speeds even for large documents.

# Document Management System:

The Document Management System is a comprehensive solution for organizing, storing, and managing documents within an organization. It includes features such as document categorization, advanced search functionality, tagging system, and version history tracking. Additionally, the system incorporates a document approval workflow, allowing documents to be reviewed and approved by users with higher roles before publication. With role-based access control, notifications, and reporting capabilities, the Document Management System streamlines document collaboration and enhances productivity while ensuring data security and compliance.

## Features:

1. Document Categorization: Allow users to categorize documents into folders or categories for better organization.
2. Search Functionality: Implement a robust search feature, enabling users to search for documents based on metadata, keywords, or content.
3. Tagging System: Enable users to tag documents with keywords or labels for easier retrieval and categorization.
4. Version History: Maintain a version history for documents, allowing users to track changes and revert to previous versions if needed.
5. Document Approval Workflow: Implement a workflow for document approval, where documents must be approved by users with higher roles before being published to others.
6. Role-based Access Control: Define different user roles (e.g., admin, manager, user) with varying permissions for accessing, editing, and approving documents.
7. Notifications: Send notifications to users when documents are awaiting approval or when changes are made to documents they are involved with.
8. Reporting and Analytics: Provide insights into document usage, such as most accessed documents, approval timelines, and user activity logs.
9. Document Expiry: Allow users to set expiry dates for documents, automatically archiving or deleting them after a specified period.
10. Integration: Integrate with third-party tools such as email clients or project management software for seamless collaboration and workflow management.

## Final List of Deliverables:

1. Working Video:
  - A complete working video demonstrating the application's functionality.
  - Demonstrate every single feature implemented from the provided list, showcasing its usage and effectiveness.
  - Provide clear explanations and step-by-step demonstrations to ensure a comprehensive understanding of the application's capabilities.
2. Source Code:
  - Complete source code of the project, well-structured and documented for easy understanding and maintenance.
  - Include comments where necessary to explain complex logic or functionalities.
3. Localhost Setup Instructions:
  - Clear and concise steps to run the project on localhost.
  - Instructions for setting up the development environment, installing dependencies, configuring the database, and starting the server.
  - If using a cloud-based database service, provide detailed instructions on creating and configuring the necessary database instances.
4. Documentation:
  - Detailed documentation outlining the project's architecture, design decisions, and implementation details.
  - Include information on technologies used, external libraries or APIs integrated, and any notable dependencies.
  - Provide API documentation if applicable, including endpoints, request/response formats, and authentication methods.
5. Security Measures Documentation (If applicable):
  - Document detailing security measures implemented to ensure data protection and user privacy.
  - Describe encryption methods used for data transmission and storage, authentication mechanisms, and access control policies.
6. Testing Documentation (If applicable):
  - Documentation covering testing methodologies employed during the development process.
  - Include unit tests, integration tests, and any other testing strategies utilized to ensure the reliability and stability of the application.

Webstack: Any of your choice. Preferably, MERN Stack (MongoDb, Express, React, Node)

Submission Date: Before 8th May 7pm.

Submission Mechanism: github public repository link with complete source code.