

College Resource Hub

Project Assessment Document

Centralized Platform

A unified web-based solution for students to upload, share, and access comprehensive study resources including notes, past exam papers, and study guides.

Smart Organization

Advanced categorization system enabling tagging by subject and semester, with intelligent search capabilities for quick resource discovery.

Quality Assurance

Student-driven rating system that ensures high-quality resources rise to the top, fostering collaborative learning and knowledge sharing.

Core Objectives

- 1 Structured Repository**
Provide a comprehensive, organized repository of academic resources that students can easily navigate and contribute to.
- 2 Advanced Categorization**
Enable sophisticated tagging and categorization systems organized by subject and semester for optimal resource discovery.
- 3 Quality Assessment**
Facilitate a robust student-driven rating system that ensures resource quality and usefulness for the academic community.
- 4 Collaborative Learning**
Encourage peer-to-peer knowledge sharing and collaborative learning experiences among students.



- Platform Vision:** Creating a seamless digital ecosystem where students can effortlessly share knowledge, discover quality resources, and enhance their academic journey through collaborative learning.

Key Features & Functionality



Secure Authentication

Robust user authentication system with role-based access control, ensuring secure login for students and administrators with appropriate permissions.



Resource Management

Seamless upload and download functionality for study notes, past examination papers, and comprehensive study guides with file validation.



Rating & Feedback

Comprehensive rating and feedback system allowing students to evaluate resource quality and provide constructive feedback for continuous improvement.



Smart Dashboard

Intelligent dashboard displaying top-rated resources, most-downloaded materials, and personalized recommendations based on user preferences.

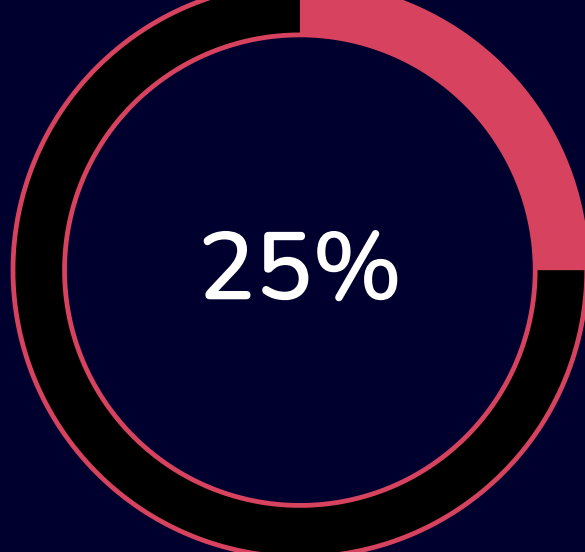
Recommended Technology Stack

Frontend	Backend Options	Authentication
React.js - Modern, component-based architecture for building responsive and interactive user interfaces	Express.js + MongoDB OR FastAPI/Flask + PostgreSQL - Flexible backend solutions for robust data management	JWT-based System - Secure, stateless authentication for seamless user experience and enhanced security

Project Deliverables

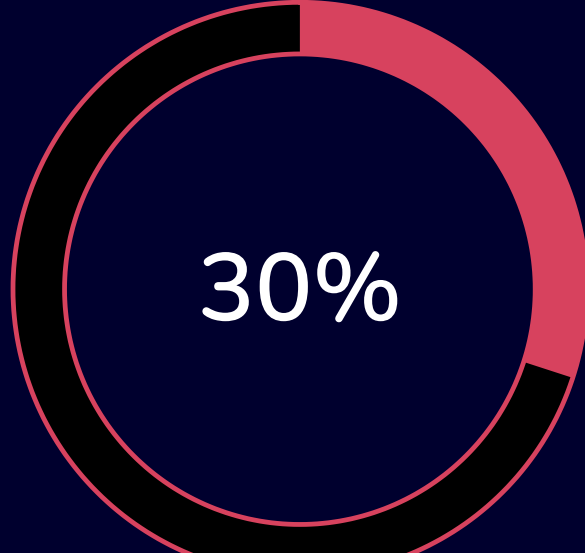
- 1 Full-Stack Application**
Complete functional web application featuring React frontend integrated with chosen backend technology stack.
- 2 Core Features**
Implemented user authentication, resource upload/download capabilities, and comprehensive user management system.
- 3 Advanced Functionality**
Fully operational tagging system, intelligent search capabilities, and robust rating functionalities.
- 4 Complete Documentation**
Comprehensive documentation including detailed setup instructions, API documentation, and thorough project report.

Evaluation Criteria



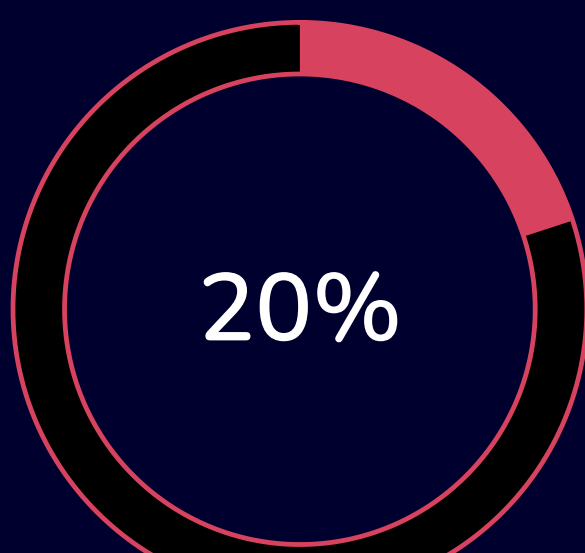
Code Quality

Structure, readability, and best practices implementation



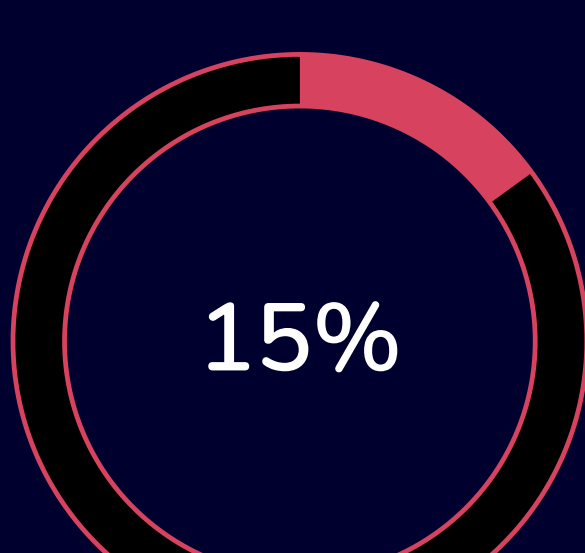
Feature Implementation

Correct execution of upload, tagging, and rating systems



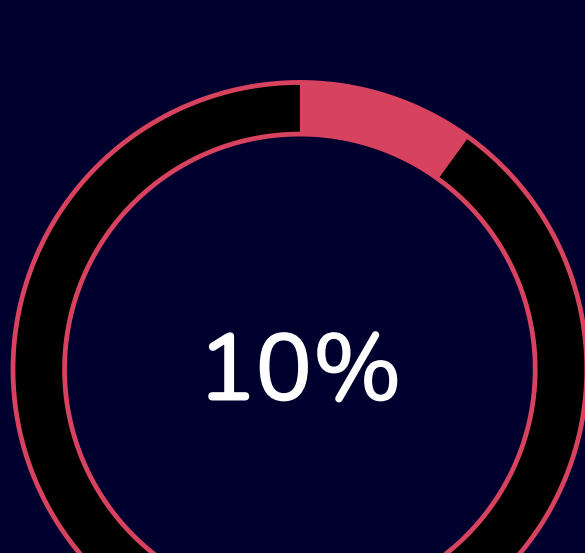
UI/UX Design

User interface design and navigation ease



Database Design

Efficient database structure and query optimization



Documentation

Completeness and clarity of project documentation



Submission Instructions

Candidates must complete the project and push it to github public repo and submit all deliverables, including source code, comprehensive documentation, public github repo link to:

support@leadmasters.ai

Please ensure your submission is well-organized and follows the specified deliverables structure for optimal evaluation.

"Building the future of collaborative academic learning through innovative technology solutions"