



# K.R. MANGALAM UNIVERSITY

THE COMPLETE WORLD OF EDUCATION

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*Empowering the Youth; Empowering the Nation*





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# Digital Archiving of Cultural Data

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## Second Year Project Synopsis Submitted by

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# Project Overview

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This project aims to digitally archive cultural artifacts, historical documents, and interviews for long-term preservation and accessibility. Using metadata tagging, it enables structured search and retrieval. By replacing fragile physical records with a secure digital platform, it ensures easy access for researchers and students, protecting cultural heritage while enhancing academic research and interdisciplinary collaboration.



# Objectives

- **Digitize and preserve** culturally significant data for long-term accessibility
- **Enable efficient discovery** through a robust metadata-driven search system
- **Ensure seamless user access** across roles and content types
- **Design an intuitive and user-friendly interface** to enhance user experience



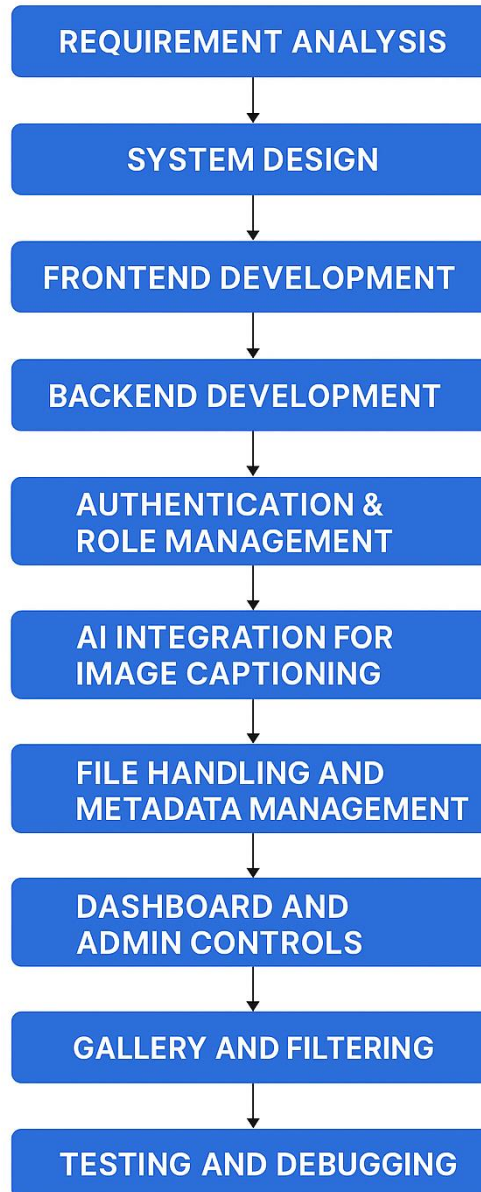
# Tools and Techniques

## TOOLS & TECHNIQUES USED:

- **Frontend:** CSS, HTML, JavaScript
- **Backend:** Python (Flask) , JWT Authentication
- **Database & Storage:** MongoDB
- **Authentication & Security:** Firebase Auth, JWT
- **Machine Learning Model:** Meta-Llama vision for AI-based image captioning



# METHODOLOGY

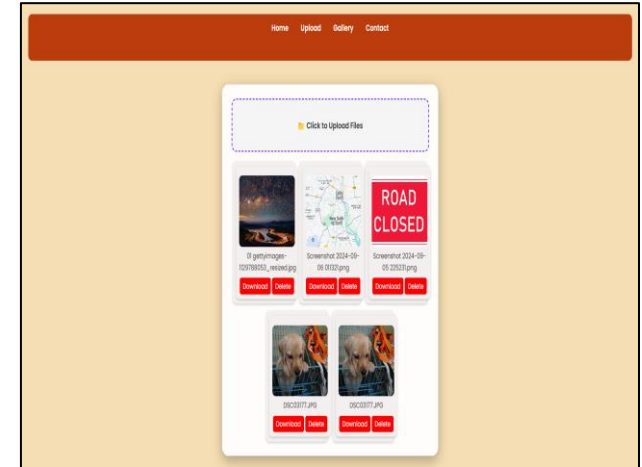




# Project Outcomes

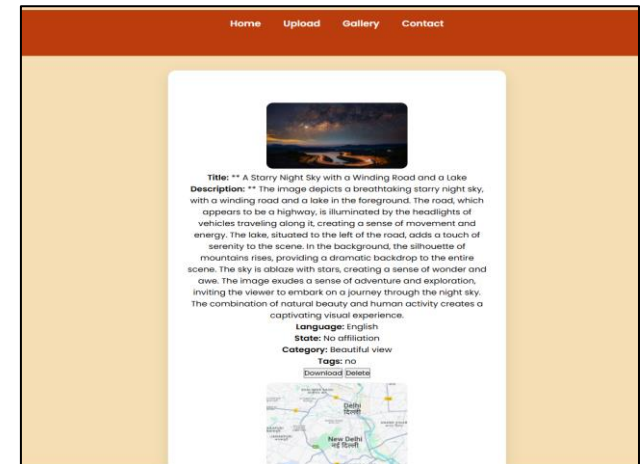
## Upload Page:

Allows users to upload images, videos, or PDFs along with detailed metadata for organized cultural data preservation.



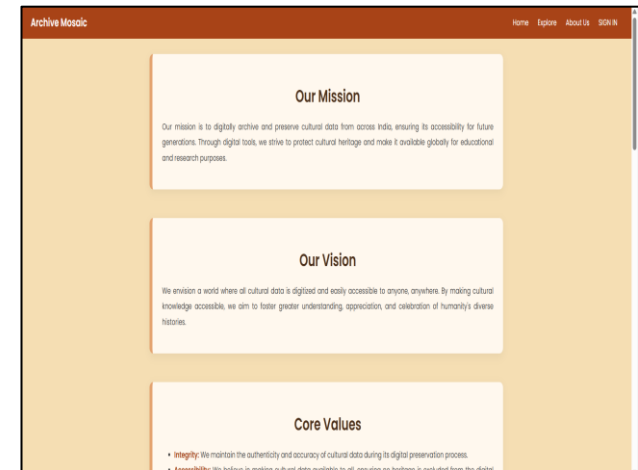
## Gallery Page:

Displays all uploaded content with filtering options based on metadata for easy browsing and discovery.



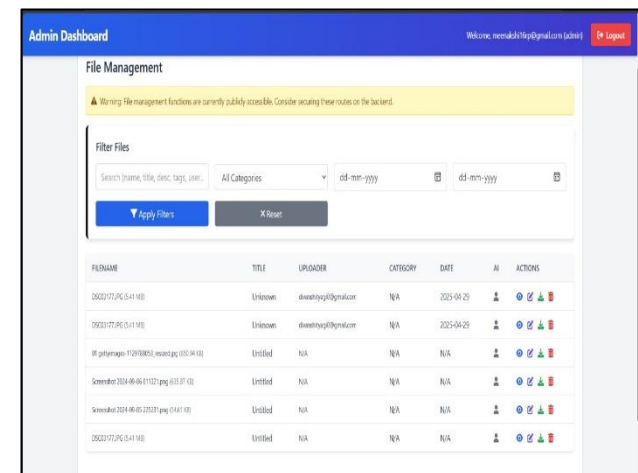
## About Us Page:

Highlights the mission and vision of the platform, focusing on cultural preservation through digital means.



## Admin Dashboard:

Enables administrators to manage users, control roles, and oversee all uploaded content efficiently.





THANK YOU

