



# K.R. MANGALAM UNIVERSITY

THE COMPLETE WORLD OF EDUCATION

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*Empowering the Youth; Empowering the Nation*





# Unified College Interaction System

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## Pre-Final Year Project Synopsis

**Submitted by**

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# Project Overview

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## The Problem

In colleges, students rely on scattered sources like WhatsApp groups, notice boards, and personal contacts. This leads to confusion, missed opportunities, and difficulty finding faculty details.

## The Solution

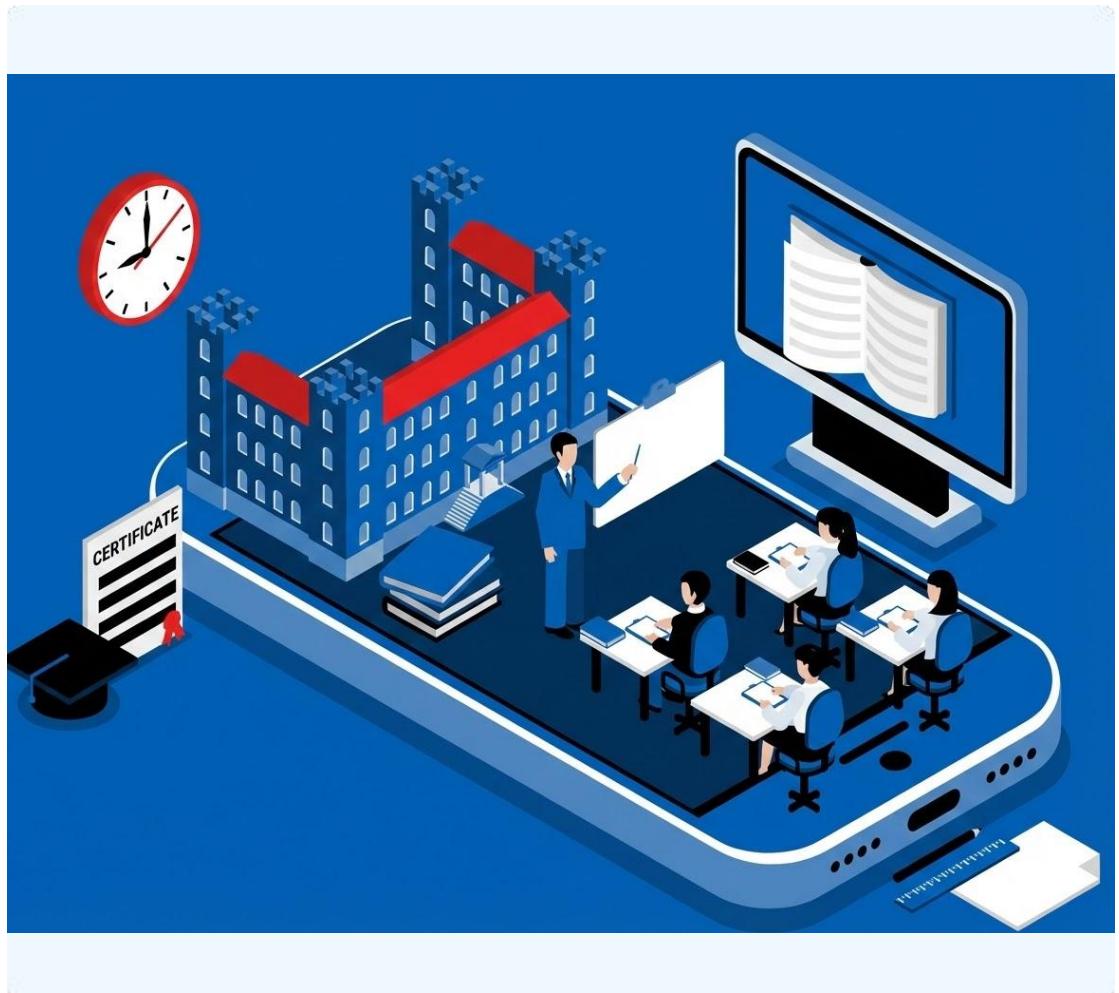
A centralized **Unified College Interaction System**. This web-based platform integrates clubs, events, faculty directory, and discussion forums into a single, organized interface.



# Specific Objectives

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- ✓ **Centralize Information:** Bring all college-related data onto a single platform.
- ✓ **Streamline Access:** Provide easy access to club activities, events, and registrations.
- ✓ **Faculty Connectivity:** Enable students to find accurate faculty contact details efficiently.
- ✓ **Structured Discussions:** Offer a formal forum for academic and general queries.
- ✓ **Reduce Dependency:** Move away from unorganized channels like WhatsApp for official info.



# Key Features

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## Clubs & Societies

View detailed lists of all college clubs, their descriptions, coordinators, and upcoming activities.

## Event Management

Publish events, manage one-click registrations, and generate participant lists automatically.

## Discussion Forum

A structured Q&A platform for academic queries, replacing chaotic chat groups.

## Faculty Directory

Searchable database of faculty members with verified email IDs and department details.



# Project Usecases & Scope

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## Student Role

- Browse and join clubs.
- View official announcements.
- Register for events instantly.
- Ask questions in forums.
- Access teacher contact info.

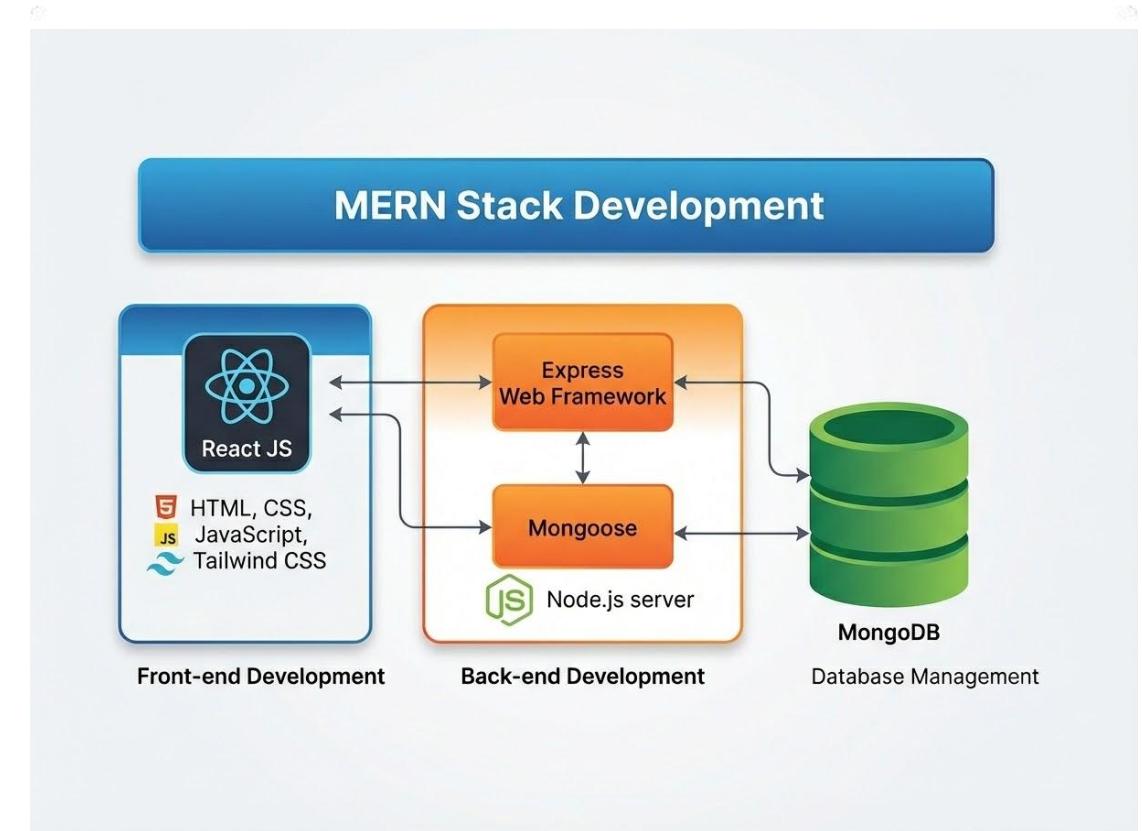
## Admin / Faculty Role

- Post new events and manage dates.
- Publish official notices.
- Manage club details.
- Moderate discussion forums.
- View registration data.



# Data & Resources

Component	Technology
Frontend	HTML, CSS, JavaScript, React / Next.js
Backend	Node.js, Express.js
Database	MongoDB (NoSQL)
Data Sources	College Administrative Records

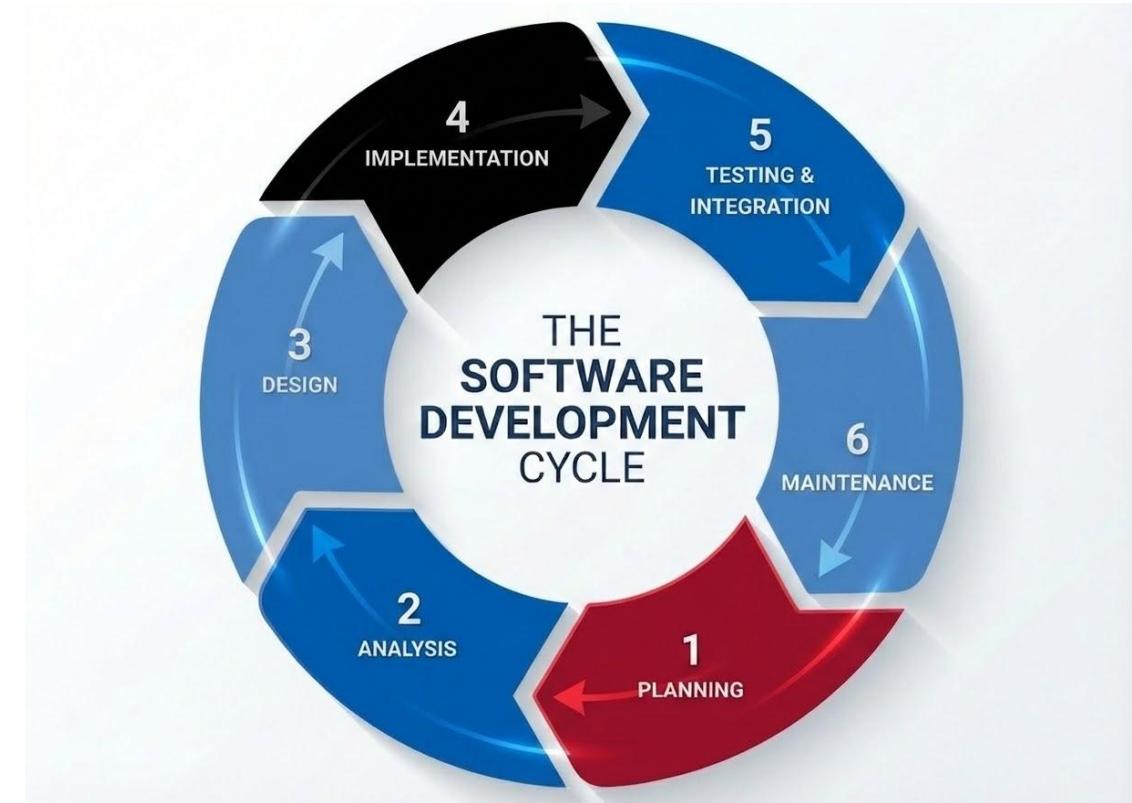


# Methodology

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## Agile Process

- ✓ **Requirement Analysis:** Identify gaps in communication.
- ✓ **System Design:** MERN stack & REST API architecture.
- ✓ **Implementation:** Coding modules (Auth, Events, Forums).
- ✓ **Testing & Deployment:** Unit testing and user feedback loops.



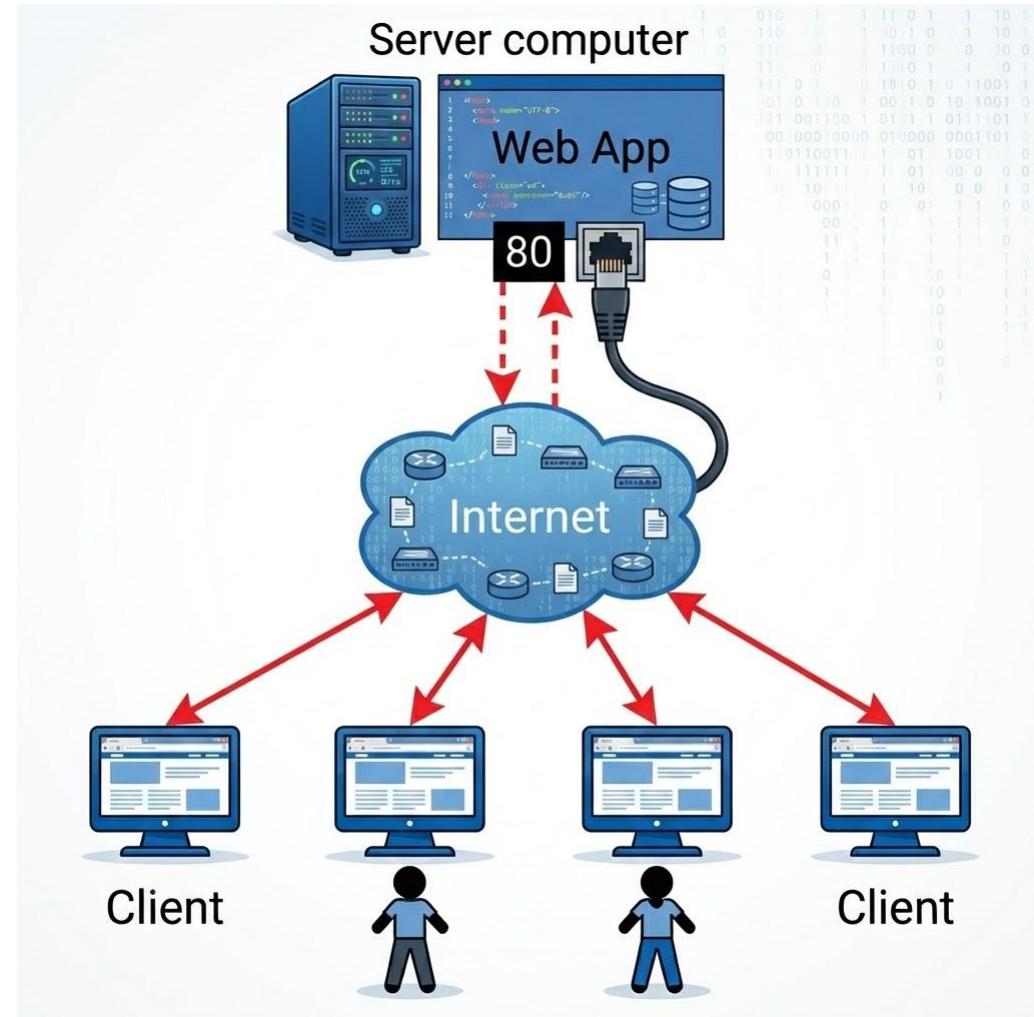
# System Architecture

The system relies on a robust **Client-Server Architecture.**

**Client:** React.js Application providing the user interface for students and admins.

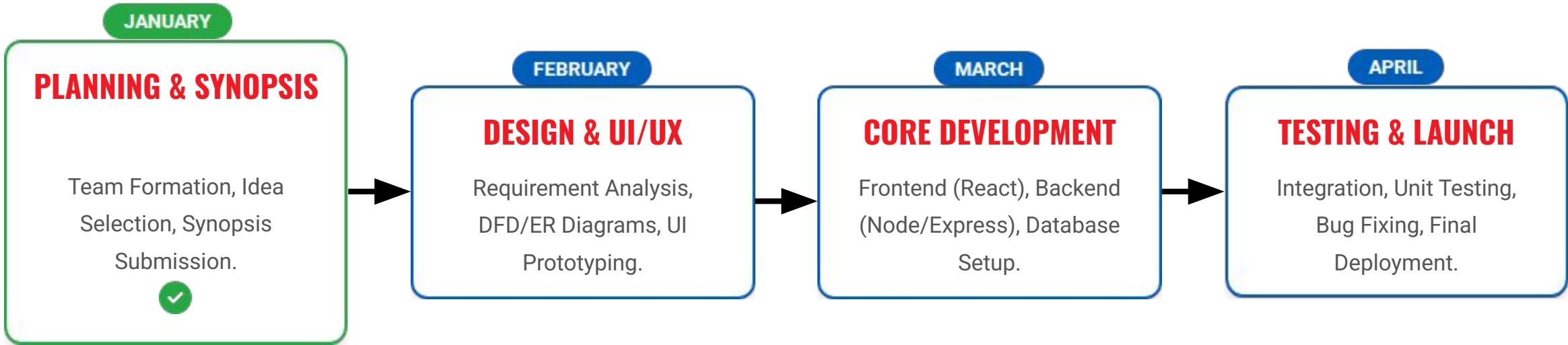
**Server:** Express.js handling business logic and API routing.

**Database:** MongoDB storing JSON-like documents for flexible data management.



# Project Timeline

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# Expected Results & Impact



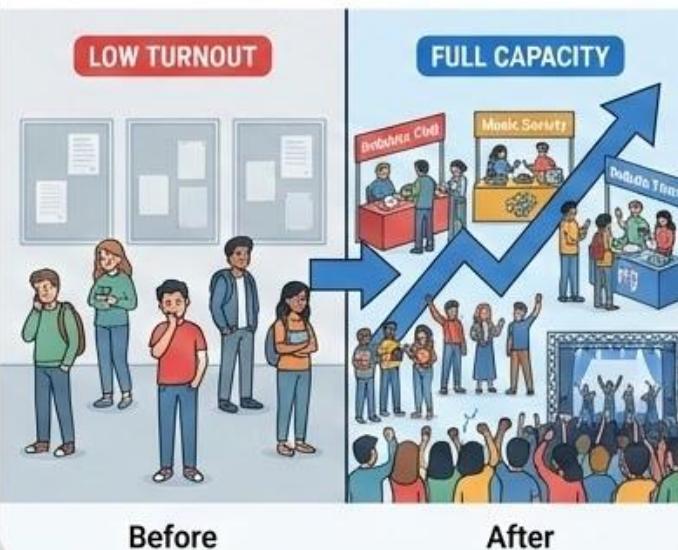
## Improved Efficiency

Reduction in time spent searching for faculty contacts and event details.



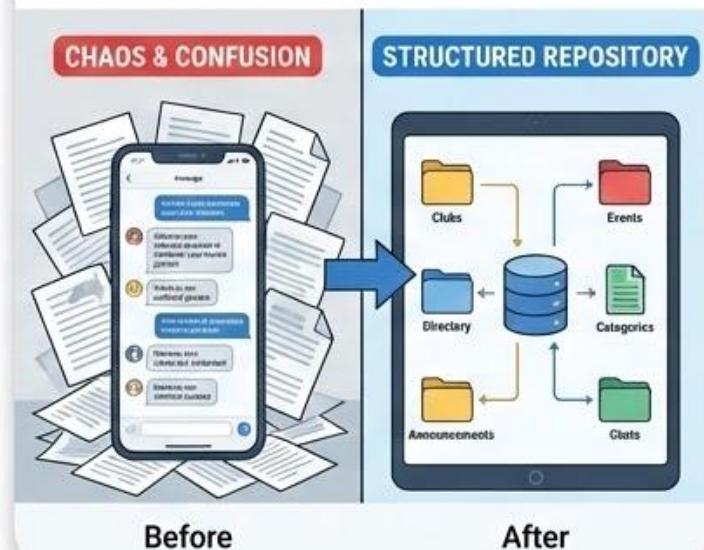
## Higher Engagement

Increased student participation in clubs and events due to better visibility.



## Organized Data

A structured repository of college activities replacing unstructured chat logs.



# THANK YOU



# Image Sources



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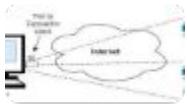
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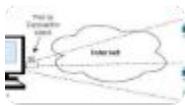
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