

University Club Website

Project Manager Email: mariamselim16@gmail.com

****Mariam Ahmed ****(PM) || Renada Ahmed || Eman Gaber || Ahmed Saad || Mohamed Abo Elhaggag || Mostafa Mahmoud

Executive Summary

This proposal presents a full-stack web platform designed to centralize university announcements, department updates, events, and lost-and-found items. The system solves the common problem of scattered and unreliable information sources by providing one trusted, official platform. It improves daily communication inside the university, supports both students and staff, and creates a more organized campus environment.

System Overview

The system is a web-based platform that displays all essential university information in an organized structure. Students can quickly access updates, browse posts, and report lost items. Staff and administrators can publish announcements through a secure dashboard. The platform ensures accuracy, fast communication, and easy access from any device.

Intended Users

Students: Users can easily view announcements, news, and events, search and report lost items, and access all updates conveniently from any device, whether mobile or laptop.

University Staff / Admins: Admins can publish and manage announcements, review and approve lost-and-found reports, and keep all information updated and accurate to ensure smooth platform operation.

Key System Functionality

The platform displays categorized announcements, allows users to search and filter posts, and submit lost-and-found items with images. It includes an admin dashboard for managing posts, supports role-based access, and features a fully responsive, mobile-friendly interface for easy use.

Technical Architecture

Frontend

HTML, CSS, JavaScript || Framework used React || Bootstrap (Front-end UI Framework) || Responsive user interface || Designed using Figma platform || Component-based clean layout

Backend

Node.js (Express) || RESTful API || Authentication for admin users || Input validation + error handling || Jwt for tokens/argon2 and for hashing || Helmet and detect cors for it

Database

MySQL || Tables: users, announcements, events, lost items || Secure data storage with timestamps

Main Features

User Features

Browse announcements by category || View event details || Submit lost/found item || View uploaded images || Search through all posts

Admin Features

Login to dashboard || Add/update/delete posts || Manage lost-and-found reports || Organize announcements by category

Benefits & Value

The platform centralizes communication, saving time by providing fast, organized, and searchable updates. It improves item recovery through an efficient, lost-and-found system, ensures secure posting by authorized staff, and remains scalable for adding future features easily.

System Workflow Summary

Students: browse → search → submit lost item → view results

Admins: login → create/edit announcements → approve reports

System: frontend request → backend validation → database storage → response to UI