

BUSINESS REQUIREMENTS DOCUMENT

PROJECT DETAILS

Project Name	Team Members	Stakeholders / Target audience
UNIVERSITY MS	Sarah Mohamed Maya Hazem Karim Nabil Kirolos Kamil Malak Mohab Habiba Mohsen	Students Professors Employees

1. EXECUTIVE SUMMARY SNAPSHOT

This Business Requirements Document (BRD) outlines the key objectives, requirements, and functionality for the development of a comprehensive University Management System (UMS). This system aims to streamline administrative processes, enhance student and department experiences, and ensure efficient management of university resources.

2.Project Scope

Dataset Overview:
The university dataset includes:

Student Data: Demographics, enrollment, academic performance, extracurricular activities, and retention metrics.

Department Data: Demographics, qualifications, workload, publications, and tenure status.

Course Data: Curriculums, schedules, credits, and enrollment statistics.

Administrative Data: Budgets, expenses, resource allocation, and staff information.

Research Data: Projects, grants, outcomes, and collaborations.

Academic Departments: Require insights into student and department performance.

Administration: Needs tools for resource allocation and financial planning.

3.PROJECT OBJECTIVES

1. Educational Research and Analysis	<ul style="list-style-type: none">• Analyze university performance metrics like student success rates, graduation rates, or employment outcomes.• Study the impact of student demographics on academic success.• Evaluate department-to-student ratios and their influence on academic performance.
2. Admissions and Enrollment Insights	<ul style="list-style-type: none">• Predict enrollment trends using historical data.• Analyze factors affecting admission rates, including test scores, extracurriculars, and demographics.• Create models to optimize scholarship allocation.
3. Institutional Benchmarking	<ul style="list-style-type: none">• Compare universities based on rankings, funding, and facilities.• Study variations in tuition fees, financial aid, and research grants.• Benchmark academic programs to identify strengths and weaknesses.
4. Improving Student Experience	<ul style="list-style-type: none">• Analyze course feedback and teaching evaluations to improve quality.• Study dropout rates and their causes to improve retention.• Develop recommendations for student well-being based on surveys and data.
5. Data-Driven Policy Making	<ul style="list-style-type: none">• Provide insights for policymakers on education funding and resource allocation.• Study trends in international student enrollment and mobility.• Inform policy decisions on diversity, equity, and inclusion.

4. FUNCTIONAL REQUIREMENTS

List the main functionalities the database must support.

REQUIREMENTS	DESCRIPTION
1. USER MANAGEMENT	This functionality will allow the system to manage user roles and access levels, including administrators, faculty, students, and other staff. It ensures secure login, registration, and profile management while enabling role-based access to specific features.
2. STUDENT INFO SYSTEM	Maintains comprehensive student records, including personal details, academic history, enrollment status, and contact information. This module allows easy retrieval and updates to student data for administrative purposes
3. COURSE MANAGEMENT	Facilitates the creation, modification, and management of course offerings, including course schedules, prerequisites, credit allocations, and faculty assignments. It also allows students to register or enroll in courses
4. ATTENDANCE TRACKING	Automates the process of recording and managing attendance for classes, labs, and other activities. It provides attendance reports for faculty and administrators and allows students to view their attendance records.
5. GRADING SYSTEM	Enables the management of student grades and assessments for various courses. Department can input grades, and students can access their academic performance. The system supports grade calculations, transcripts, and progress monitoring.
6. FINANCIAL MANAGEMENT	Manages financial transactions related to tuition fees, scholarships, fines, and other payments. This module generates invoices, tracks payments, and provides reports on financial activities for students and the administration.