



CSE6224 SOFTWARE REQUIREMENT

GROUP: GROUP 1

TASK 2

PRODUCT NAME : UNICONNECT

CONTEXT OBJECT AND REQUIREMENT SOURCES

**UNIVERSITY COMMUNICATION AND SERVICES PORTAL
WITH CAMPUS MANAGEMENT SYSTEM AND SMS GATEWAY
INTEGRATION**

| STUDENT NAME | STUDENT ID |
|---------------------|-------------------|
| NG TUAN HOM | 1221101892 |
| FOO YAU YUN | 1211111966 |
| TAN ZHE ENN | 242UC2451F |
| NG KEAN TIONG | 242UC244V5 |

Table of Content

| | |
|----------------------------|----------|
| Table of Content | 1 |
| Context Object | 2 |
| Requirement Sources | 4 |

Context Object

The University Communication and Services Portal is designed to provide transparent, timely communication and access to academic and administrative services for students, lecturers, administrators, and parents. This portal will integrate with the university's existing Campus Management System to retrieve essential data such as academic performance, attendance, and billing information, and present it in a user-friendly interface. The system will also integrate with an SMS Gateway to ensure critical updates (such as low attendance alerts, fee reminders, and academic performance summaries) reach parents and students directly on their mobile phones.

| System Context Object | Explanation |
|-------------------------------|---|
| University Database | Stores centralized data accessed by the portal. |
| Lecturer | Users who input attendance, performance data and choose course schedules. |
| Student | Users who access their academic, financial and attendance information. |
| Parent | Recipients of student updates via SMS. |
| Campus Management System(CMS) | External system providing academic, attendance, and financial data. |
| Regulatory Body | Online Law Document(Document) |
| SMS Gateway | Sends notifications to parents and students. |
| Administrator | Manages users, courses, billing, and system configurations. |
| Payment Gateway | External service used to process student fee payments securely. |
| Authentication System | Authenticates user login, manages session handling and access roles. |
| Portal User Interface | Web interface for users to interact with the system. |
| Regulatory Body | Defines compliance needs(e.g., data privacy laws, education standards). |

Requirement Sources

| Object | Source | Explanation |
|----------------------------------|------------------------------------|--|
| University Administration System | University Guidelines(Document) | Provides business rule, policy constraints. |
| Lecturer | Lecturer (Stakeholder) | Feature requests for marking attendance,updating grades and choosing course schedules. |
| Student | Student(Stakeholder) | Input for UX design,preferred services,and pain points in current system. |
| Parent | Parent(Stakeholder) | Preferences for notification access. |
| Campus Management System(CMS) | CLIC MMU(System) | Reference for how CMS works. |
| Regulatory Body | Online Law Document(Document) | Defines compliance needs(data privacy laws,education standards) |
| SMS Gateway | SMS Gateway Provider(Document) | Technical documentation for sending/receiving SMS via API |
| Administrator | Administrator(Stakeholder) | Features for managing users,managing sources,billing information and clubs. |
| Payment Gateway | Payment Gateway Provider(Document) | Documentations for implementing payment gateway. |