

**CSE6224 Software Requirements Engineer TT3L**

**SRS**

**GROUP 1**

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## 

# Introduction

## 1.1 Purpose

The purpose of this document is to specify the software requirements for MMUAccess, a campus accessibility navigation system. The document outlines the functionality, constraints, and design requirements of the platform, which aims to assist students, staff, and visitors in navigating the university campus — especially those with accessibility needs. This document is intended for software developers, system designers, project stakeholders, and testers involved in the development and deployment of the system.

## 1.2 Scope

MMUAccess shall facilitate mainly the following operations

1. Navigation across campus with accessible route
2. Real-time updates on campus events
3. Integration with MMU’s event calendar to guide users to accessible event locations

## 1.3 Product Overview

### 1.3.1 Product Perspective

MMUAccess is a new, independent system designed specifically for Multimedia University. However, it will interact with existing university systems such as the campus facilities management database and the official event calendar system. The system is developed as a responsive web and mobile application to ensure accessibility across multiple platforms.

This product will serve as an enhancement to the university's infrastructure by supporting inclusive campus navigation. It provides real-time route adjustments and helps users with disabilities find the most suitable paths and access points.

### 1.3.2 Product Function

MMUAccess shall facilitate the following core functions:

i. Generate accessible navigation routes across the MMU campus, avoiding stairs, blocked paths, or other obstacles.  
ii. Provide real-time notifications and updates regarding campus events and their impact on navigation routes.  
iii. Integrate with MMU’s official event calendar to help users locate event venues and determine if the routes and locations are accessible.

### 1.3.3 User Characteristics

i. Students, staff, and visitors of MMU who require assistance navigating the campus, especially users with mobility, visual, or auditory impairments.  
ii. Users with varying levels of technical experience, from tech-savvy individuals to those with limited digital skills.  
iii. Administrative staff responsible for updating facility information and event accessibility details.  
iv. Users accessing the system from different devices, including smartphones, tablets, and desktop computers.

### 1.3.4 Limitation

i. The system depends on timely data updates from MMU staff for construction zones, elevator outages, and event information.  
ii. Internet connection is required for accessing real-time updates and using the application.  
iii. MMUAccess is limited to the MMU campus environment and will not provide navigation outside university grounds.  
iv. The system’s route accuracy may be affected by incomplete or outdated facility data.

## 1.4 Definition

# 2.0 References

i. IEEE Std 830-1998, *IEEE Recommended Practice for Software Requirements Specifications*.

# 3.0 Requirement

## 3.1 Functions

## 3.2 Performance Requirements

## 3.3 Usability Requirement

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## 3.5 Logical Database Requirement

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## 5.1 Assumptions and Dependencies

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