

**CSE6224 Software Requirements Engineer**

**System Documentation**

**for**

**Campus Accessibility Navigation System with Facilities and Event Integration**

**Project Preliminary**

**TT3L**

**GROUP 1**

**Prepared by:**

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# 1.0 Meeting Objective

To discuss project vision, scope, and goals for the development of an accessibility-focused campus navigation system integrated with real-time facility and event data.

# 2.0 Discussion Summary

## 2.1 Project Vision

The vision of the Campus Accessibility Navigation System is to create an inclusive, real-time, and intelligent navigation platform for university campuses that supports students, staff, and visitors—especially those with mobility impairments. The system will provide barrier-free route suggestions, live facility updates, and accessible event guidance. It aims to enhance mobility, promote independence, and improve user experience for all campus users by integrating accessibility data from facilities and event systems.

## 2.2 Project Scope

The application will be developed as a web and mobile system integrated with the university's facilities and event databases to provide the following services:

### 2.2.1 Student and Visitors

i. Search and navigate to buildings using accessible routes

ii. Receive live updates on elevator outages, path blockages, and ongoing construction

iii. Get directions to accessible event locations

### 2.2.2 Admin Staff

i. Update facility status (e.g., elevators, ramps, blocked pathways)

ii. Upload and manage campus event information

iii. Maintain accessibility database with real-time infrastructure changes

### 2.2.3 System Features:

i. Personalized routing based on user mobility needs

ii. Real-time alert notification for sudden facility change

iii. Integration with event calendar and facility status system

iv. Admin dashboard for content and data management

# 3.0 Project Goals

Promotes Inclusive Navigation

* Enable students and visitors with mobility challenges or without to move independently on campus
* Ensure no user is disadvantaged due to inaccessible infrastructure

Integrate Real-time facility and Event Updates

* Delivering timely updates about construction, outages, or changes in accessibility
* Link navigation features with the university’s event management system

Enhance User Experience and Safety

* Minimize time spent finding routes by showing only accessible paths
* Increase confidence among users when attending classes or events

Support Campus Operations and Maintenance

* Allow admin staff to update facility status quickly
* Help university management monitor infrastructure accessibility and event readiness

Deliver Actionable Alerts

* Notify users of real-time disruptions that impact their planned routes or events
* Enable proactive decisions and rerouting through automated alerts