# **Introduction**

Aiming to solve challenges with accessibility, navigation and lack of information at Universities, the Campus Accessibility Navigation System with Facilities and Event Integration was created. Through a route design based on physical constraints and existing conditions on campus, including accessibility, this system will help visitors, staff and students. The system also provides context-aware navigation, including information on ongoing construction work, the status of elevators and special event express services. It is connected to the university’s database for facilities and event management. This document contains descriptions of the principal context objects and source(s) of requirements for operations and the use of the system.

# **Step 1 - Identification of Potential Relevant Requirements Sources**

## Context Objects Checklist

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Description** | **Role** |
| Student | User | Individuals navigating the campus, including those with accessibility needs. | Primary users; utilize the platform via mobile/web app |
| University Admin | User | Staff managing facilities and campus accessibility policies. | Define infrastructure constraints and validate access info |
| Facilities Management System | System | Maintains real-time records of building access, elevator status, and maintenance updates. | Supplies data for route availability and alerts |
| Campus Events Calendar | System | Schedules and logs campus-wide events and their accessibility arrangements. | Provides event-based route adjustments |
| Accessibility Officer | User | Personnel responsible for ensuring accessibility compliance across campus infrastructure. | Consulted for policy enforcement and inclusive design |
| Admin Interface | Interface | Administrative dashboard for managing users, routes, and incident reports. | Supports route management and reporting functions |

# **Step 2 – Selection of Most Relevant Requirements Sources**

## Prioritization via 100 Dollar Test

A stakeholder discussion was held, and a hypothetical $100 budget was allocated to determine the importance of each requirements source:

|  |  |  |  |
| --- | --- | --- | --- |
| **Requirements Source** | **Allocated Budget ($)** | **Priority** | **Rationale** |
| Students | 35 | High | Direct users whose accessibility needs and feedback shape the system's primary features. |
| University Admin | 25 | High | Determine data permissions, compliance requirements, and platform boundaries. |
| Facilities Management System | 20 | Medium | Provides infrastructure data critical for routing logic. |
| Campus Events Calendar | 10 | Medium | Influences temporary changes in route availability. |
| Accessibility Officer | 7 | Low | Important for long-term compliance but not central to initial development. |
| System Documentation | 3 | Low | Reference materials that support technical design but are not primary elicitation sources. |

## Final Selection

Primary Sources for Initial Elicitation:

* Students
* University Admin
* Facilities Management System

Secondary Sources for Later Phases:

* Campus Events Calendar (validated during event scheduling integration)
* Accessibility Officer (consulted during compliance review)

# 4. Conclusion

Through the process of systematically discovering and ranking context objects and sources of requirements, this process roots the system in the reality of the operational, technical, and user environment in the university. Emphasis on primary stakeholders and systems at the outset facilitates effective early development, with secondary sources integrated in later stages to encourage flexibility, safety, and adherence to accessibility standards.