## **Revision**

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| **Version** | **Primary Author(s)** | **Description of Version** | **Date Completed** |
| 1.0 | TEE KAH LE | Define material objects of Context Object | 28/4/2025 |
| 1.1 | Chang Hoe Hin | Define immaterial objects of Context Object | 28/4/2025 |

## Context Object

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| **Material Object** | **Properties (Subject Facet)** | **Properties (Usage Facet)** | **Properties (IT System Facet)** |
| Campus Map | * Buildings * Roads * Elevators * Ramps | * Visual navigation * Route planning * Obstacle avoidance | * Map database * Real-time map updates |
| Facility | * Study room * Library * Cafeteria | * Facility search * User guidance * Availability display | * Facility database |
| Event | * Event name * Time * Location * Accessibility notes | * Event searching * Navigation to events * Registration reminder | * Event database * Notification system |
| User | * Accessibility needs * Preference * Current location | * Personalized routing * Alerts for unavailable paths | * User account management * User database * Privacy settings |
| Admin dashboard | * Facility data * Event data * User reports | * Manage facilities * Update events * Review reports | * Admin portal * Data analytics * Reporting tools |
| Feedback System | * User reviews * Issues reporting | * Collect user input * Improve system based on feedback | * Feedback database |
| Notification System | * Obstacle alert * Event updates | * Send alerts * Reminders | * Push notification services |

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| ***Immaterial Object*** | ***Properties (Subject Facet)*** | ***Properties (Usage Facet)*** | ***Properties***  ***(IT System Facet)*** |
| Facilities Management Database | * ID * Operational status * Last update time | * Average Response Time | * Maximum query throughput |
| Events Calendar System | * ID * Location * Start and End time | * Average usage load * Maximum number of simultaneous queries | * Maximum storage for event data |
| Real-time Accessibility Data Service | * Affected area * Estimated resolution time | * Required data accuracy for accessibility updates | * Maximum downtime in 12h |
| Map Rendering Engine | - | * Average rendering time per request | - |
| Route Optimization Algorithm | - | - | - |