## **Revision**

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| **Version** | **Primary Author(s)** | **Description of Version** | **Date Completed** |
| 1.0 | Chang Hoe Hin  Yee Si Shun | Explain what and how Vision will be | 19/4/2025 |
| 1.1 | Goh Chun Yong | Define project goals. | 24/4/2025 |

## Vision

**Requirement for the whole system**

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| **What?** | **How?** |
| The System needs to provide accessible route planning across campus | * The user can select the starting point and desire location. * The navigation system should show multiple available routes from start location to end location. * Some route being shown should automatically avoid unwanted events (elevator breakdown and construction) and default one is the fastest without events consideration. |

**System Architecture**

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| **What?** | **How?** |
| The System needs to integrate with the university's facilities management database and events calendar | * Universities that want to use the system need to link their events calendar and build a map model database. |

**Requirements for the components**

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| --- | --- |
| **What?** | **How?** |
| Users can contribute accessibility information about campus. | * Users can select the location on map model to mention the type of event that will be marked as potential event. * The navigation system provides different interfaces for the university’s administrator to validate and double confirm the information sent by users or update themselves manually. |

**Design model of the components**

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| **What?** | **How?** |
| The System shall provide multiple interfaces for users to choose | * Normal routes and wheelchair-accessible maps can be chosen by users. * User’s account can be use differ between basic users and administrator person for different interfaces. |

**Implementations of the components**

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| **What?** | **How?** |
| The System shall present event information on campus navigation | * Events calendar and database being link from university will import the information to show details on the specific location. |

## Goals

1. **Enhance Campus Accessibility**
   * Ensure all users, including those with disabilities, have equal access to navigate the campus efficiently and safely.
2. **Improve Real-Time Decision Making**
   * Enable users to make informed navigation choices based on live updates about accessibility-affecting changes.
3. **Dynamic Route Adjustments**
   * Recalculate paths based on obstacles (construction, outages).
4. **Real-Time Data Integration:**
   * Sync with facilities and event systems for up-to-date routing.
5. **Facilitate User Engagement and Feedback**
   * Provide options for users to report accessibility issues or suggest improvements, supporting continuous system enhancement.