

Vocabulary

Core Components

- Museum Map: A digital map of the museum, displaying exhibits, routes, and user location.
- Exhibit: A physical or virtual display in the museum, with associated details (e.g., description, audio transcript).
- Route: A calculated path between points in the museum, optimized for time, distance, or traffic.
- Offline Mode: A system state allowing access to pre-downloaded content without internet connectivity.
- Arrival time: The estimated time of arrival at the destination.
- Selected destination: The destination selected by the user.
- GPS signal: The GPS signal provided by the device and used for navigation.
- Traffic levels: Traffic conditions that affect navigation.

User Actions

- Download for Offline Use: User-initiated action to save exhibit or map data locally.
- Search by Keyword/Category: User inputs to filter exhibits (e.g., "Art," "History," or free-text terms).
- Navigate: User request start navigating on the displayed calculated route to a destination.
- Manage Offline Content: User access to delete or update downloaded content.
- Cancel Navigation: User action to stop active route guidance.
- Personalized Route Generation: User-triggered route creation based on saved preferences.
- Modify route: Modifying the existing route.
- Multiple stops: Selecting multiple stops along the route.
- Change starting point: Changing the starting point of the route.
- Cancel navigation: Cancelling navigation to the destination.
- No results found: Message displayed when no search results are found.
- Add to favorites: Adding an exhibit to the user's favorites list.

System Actions

- Display route: Displaying the calculated route on the map.
- Synchronize Data: Automatic upload of user activity (e.g., favourites, ratings) when connectivity resumes.
- Display Notification: System alerts (e.g., "Offline mode activated," "No route available") on a screen pop-up.
- Calculate Route: Algorithmic determination of optimal paths between points.
- Indicate Limited Functionality: Warn users about unavailable real-time features in offline mode.
- Inaccessible destination: A destination that is not accessible (e.g., a closed exhibit).
- Alternative destination: A suggested alternative destination.
- Profile setup: The process of setting up the user's profile.
- Profile creation: Creating a user's profile.
- Profile update: Updating user preferences in their profile.
- Manage offline content: Managing content downloaded for offline use.
- Offline map: A map used without an internet connection.

Technical Terms

- Pre-Downloaded Content: Exhibits, maps, or audio transcripts saved locally for offline access.
- Storage Space: Device memory required/used for offline content.
- Real-Time Features: Functionality requiring internet (e.g., live traffic updates).
- User Preferences: Saved settings (e.g., exhibit interests, preferred historical era) for personalized routes.
- Internet connectivity: Connection to the internet.
- Limited functionality: Reduced functionality due to lack of internet connectivity.
- Online-only features: Features that require an internet connection.
- Cultural and historical preferences: User's cultural and historical preferences given during user profile set-up
- Audio transcript: Audio transcripts of an exhibit.