



Museum Guide

Overview

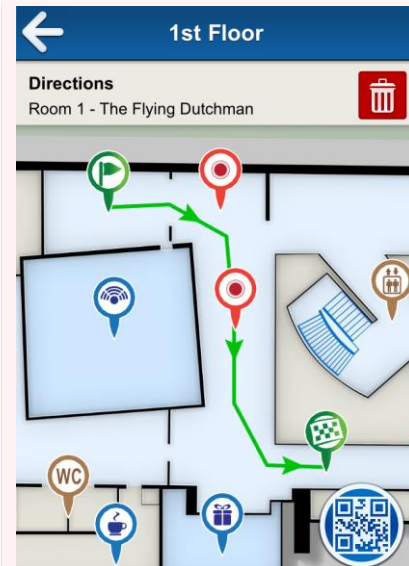
The “Museum Guide” is a mobile application that can be installed on user-owned mobile devices. The main purpose of this system is to take advantage of the near-ubiquity of mobile devices to create a rich **museum touring guide** that escorts the user during their visit to a museum.

More specifically, visitors’ experience is enhanced through:

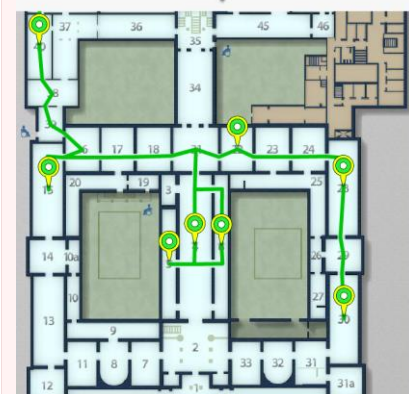
- **Area Information and Guidance:** visitors are able to identify, with relative precision, where they are located within the museum and can easily find their way around it, whether they wish to visit a specific exhibition room or a utility area of the building.
- **Thematic Information:** visitors can receive detailed information (i.e., textual descriptions, photographs, audio and video content) regarding the museum’s permanent and any temporary exhibitions, its collections as well as individual exhibits.
- **Tour Creation:** a set of predefined tours, focusing on specific collections or exhibits, is available to the visitor.

In order to identify the **visitor’s location** in the museum, the use of QR Codes was adopted. Each public building area (e.g., Cafeteria, Gift shop, WC, etc.) has been assigned its own code, as has each individual exhibit within the museum. Through the use of their device’s built-in camera, a visitor can inform the application of their current location or identify an exhibit they may be interested in finding more about.

With always-available information and multimedia regarding all exhibits and other points of interest and the ability to tailor their experience to their needs, visitors are essentially accompanied by a comprehensive, intelligent guide that makes their museum experience not only richer, but also more efficient.



A route defined by the visitor



Overview of a tour

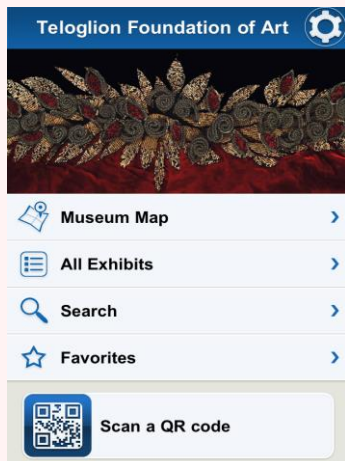
Target Domains

The Museum Guide can be integrated in almost any facility that requires indoor navigation enriched with multimedia content presentation (e.g., museums, hotels, exhibition spaces, etc.), while it can be deployed in major mobile platforms (i.e., iOS, Android).

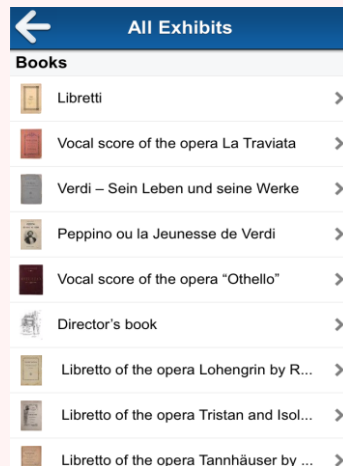
Description

A fully interactive map that supports touch-enabled zooming and panning functions through pinching and dragging gestures is provided. Users have the option to select any particular Point of Interest (e.g., room, exhibit) on the map and gain access to more details concerning it. If they wish to ask for a route to a different location within the museum, they can simply state the starting and ending points. The application will calculate the most convenient path and display it on the map, including also appropriate instructions whenever users may be required to change floor level.

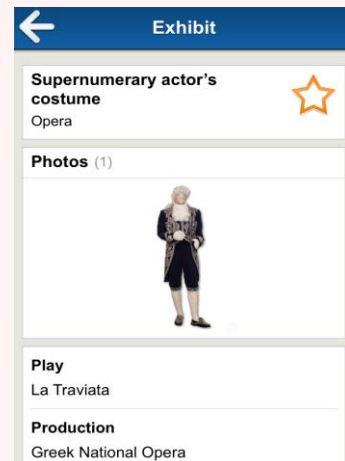
The application's touring feature currently allows visitors to select from a set of predefined tours, from short to extensive, depending on how much time they wish to spend. A tour is passively location aware; by asking the user to confirm their location in a room, it paces itself and displays the correct information for every step. In more detail, when a user states their location, the map centers to the respective room and virtual pins that correspond to the exhibits included in the selected tour are displayed, in order to facilitate finding exhibits in the physical room.



Home screen of the Museum Guide Application



List of all the exhibits



Details of a museum exhibit

Additional Information

The Museum Guide Application is available in the iTunes App Store for guidance in the Teloglion Foundation of Art:

<https://itunes.apple.com/us/app/teloglion/id821667442?mt=8&ign-mpt=uo%3D4>

Permanent public installations: Arkadi Monastery, Art Gallery



Museum Guide web page

www.ics.forth.gr/ami/project/museum-guide/

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