The Monnig comprises a scientific research collection (the Monnig Meteorite Collection) as well as a Museum (the so-called “Gallery”). The exhibit has an educational game and interactive video screens. While there have been some updates to the technology in the exhibits in the last twenty years, most of the Gallery remains unchanged since its opening in 2003.

With the help of the iBeacon Bluetooth protocol it is possible to perform indoor navigation. This allows the app to detect in which region of the Gallery a visitor is at a specific moment. Then, since we have the information of the meteorites’ display location in the gallery, which can be absolute using the grid of the map or a name of the room, relevant content is generated in the tour assistance screen.

We use two iBeacon scanning techniques: Ranging and Monitoring. Ranging allows the application to list detected beacon spots. Monitoring allows the application to be aware as the visitor exits and enters defined regions.

The MMG Tour Assistance App supports Spanish and French beside English. Furthermore, a text to speech feature is implemented to assist reading difficulties more efficiently.

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