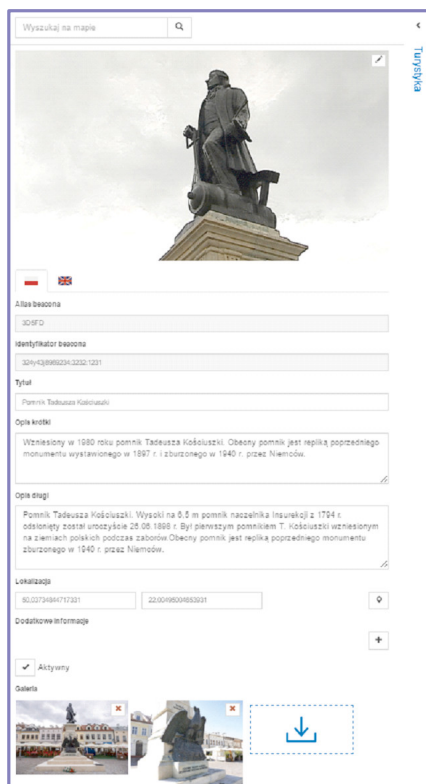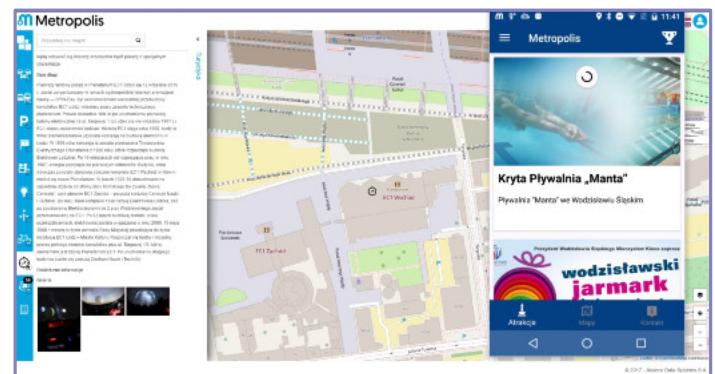# TOURISM AND CULTURE

The solution includes a central application managing beacons deployed throughout the town/city, which presents statistics and scenarios of gamification, as well as a mobile tourism application.

Tourist module in Metropolis

Allows you to view, edit and add new tourist points. All tourist attractions entered into the Metropolis system are presented on maps. Standard users have access only to the description of a given place, a gallery of photos related to it and some additional information entered in the system (e.g. opening hours, ticket price).

Mobile Tourist Application

Advanced users are given the possibility to edit the places managed by the system. In addition, they have access to hidden attributes and an identifier that physically define the beacon associated with a given place. It is possible to modify the descriptions of a given point, move it to another place and edit the gallery of photos related to it.

Additional attributes visible to the user can also be defined for a given place. They allow, among other things, for:

- Integration with the achievements module in a mobile application;
- Categorisation of tourist attractions – creation of trails;
- Entering additional information about opening hours, ticket prices, discount codes.

Gamification

Possible to run e.g. in the case of placing Bluetooth antennas connecting with active beacons on a dedicated tourist trail, e.g. kayak or bicycle trail, and equipping devices (bikes or kayaks) with beacons. The application allows you to "observe" the participants of the expedition, check where they have recently registered on the trail/ canoeing rally, record the flow times of individual participants and build a database of records of canoeing on a given day.

Rankings and points scored by users are available in the trophy/achievements module and can be used e.g. to collect a prize (e.g. a mug, T-shirt, USB flash drive with city/town logo) at a designated point.

System of booking and rental of recreational equipment (canoes, bicycles, Segways, quads)

Professional and easy to use online booking system, compatible with smartphones, tablets and personal computers. The calendar prepared in the system will allow for a graphical presentation of the quantity of available equipment within the specified time limits. It will be possible to choose and book the equipment. Available functionalities:

- Calendar – all bookings in one place;
- On-line bookings – availability of the service for customers from the browser level;
- Customer database management – information about users ordering the equipment;
- Equipment management – overview and edition of the equipment park;
- Flexible pricing policy – possibility of free management of prices, discounts and promotions;
- Business analysis – option of generating business reports.

Bezpieczna plaża (Safe beach)

Bezpieczna plaża (Safe beach) application also uses beacons to ensure safety of users of urban and municipal water bathing sites.

The solution is addressed primarily to parents with children. Thanks to the dedicated infrastructure, it will allow you to monitor people equipped with special wristbands with Bluetooth transmitters, which monitor excessive remoteness from the beach. The sensor will also inform you of temperature fluctuations that may be caused by insolation or cold. The solution consists of four elements:

- Wristbands with beacon type transmitter;
- Bluetooth antenna located on the beach;
- Mobile application;
- Central system.

Operating scheme: when entering the monitored area, a child receives a special wristband, which enables his/her localisation. With the help of the mobile application, the parents will be able to check where their child is at any time. In the event that a child gets lost and is escorted to a service point, the parent or guardian shall be notified. When leaving the beach, the wristbands are returned and prepared for the next use.

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