

## HotThess

The HotThess service harnesses the power of the crowd to offer innovative services to Thessaloniki's visitors and residents alike.

Based on the check-in data of the popular FourSquare service, it is able to discover and visualise not just the "hot" points of interest in the city, but also wider "hot" (lively) areas.

By storing and analysing this data, the service allows its users to plan their trip around town not just for the current moment, but for any day and time in the week that interests them.

The service offers, amongs others, some unique capabilities that are not found in any other service:

- Automated planning of thematic routes (e.g. city's museums)
- Automated planning of routes that guide the user through the city's liveliest neighbourhoods, depending on the day and time
- Visualising the city's lively neighbourhoods via web and mobile apps
- Visualising information upon simple printed paper maps, using Augmented Reality

### Augmented Reality for Thessaloniki

Despite the advances in mobile technology and apps, the simple paper map will always remain a popular tool, because of its unique characteristics of being very low cost (or free), no consumption of power or data, the ease with which users can annotate it, the coverage of large areas with sufficient detail and its ability to aid collaboration between multiple users (which is hard to accomplish on a small mobile screen). Our services gives simple paper maps new abilities, by overlaying digital information regarding points of interest and routes, when the maps are viewed through the mobile device's camera viewfinder, supporting multiple devices at the same time. Acting like a "magic lens", our app allows users to quickly and easily discover all the digital information they require when they need it, and to continue to use the map in a traditional way in all other circumstances, e.g. for simple navigation.

### Technologies used

Back end: MySQL, PHP, JSON

Web: HTML5, AJAX, PHP

Mobile app: Android Java

Augmented Reality app: Android, C#

### Technical Requirements

Web : Latest version Chrome, Firefox, Safari

Mobile app: Android 4.4.4, 1Gb RAM, Dual core processor

Augmented Reality app: Android 4.4.4, 2Gb RAM, Quad-core processor