PSA
PROFESSIONAL SOFTWARE ASSOCIATES, INC.

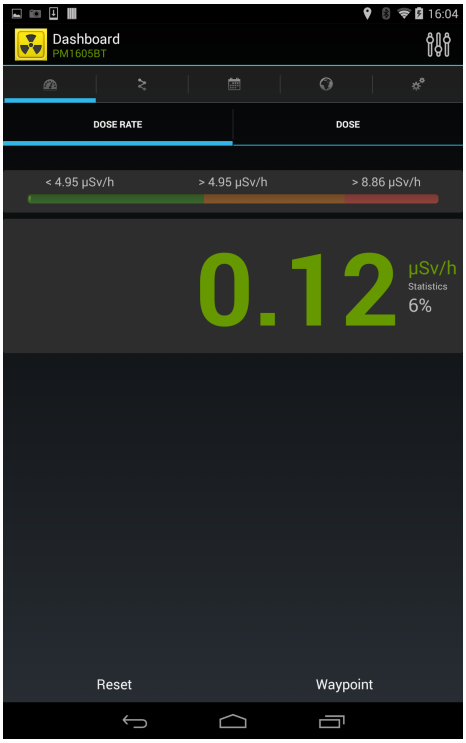
DOSIMETER MOBILE APP

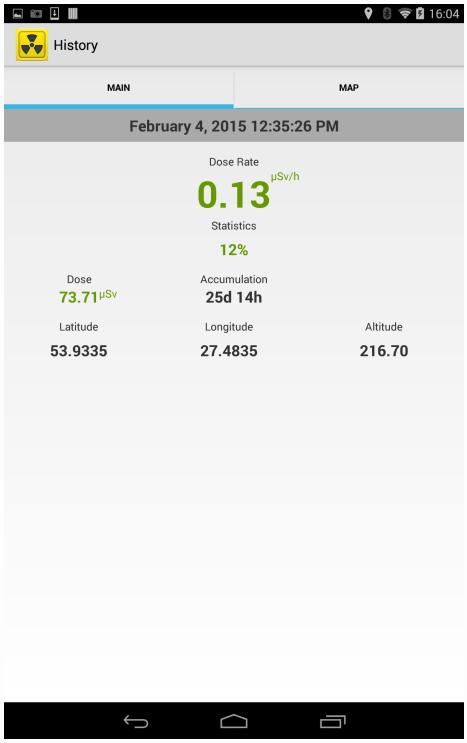
Datasheet

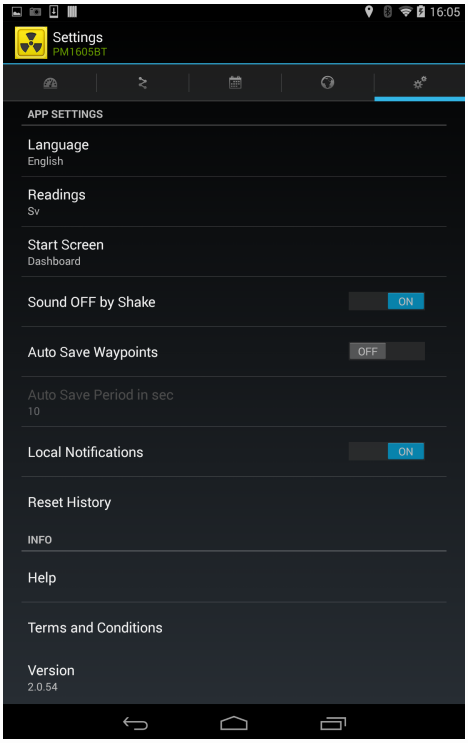
PROVIDING SOLUTIONS FOR TOMORROW – SINCE 1993

Project objective

Develop the mobile application to ensure simple, reliable and comprehensive control of radiation levels ensuring a robust connection with multiple types of client's devices. The delivered app would provide immediate transfer of measured parameters, and opportunity of sharing radiology data to promote public safety.







Result

The delivered application allows for control of the level of radiation and accumulated dose, saving the data and route map of the device movements within preset periods of time, and the capable to send the data to a remote server. The delivered app simplifies operations for various applications, such as customs and border control, steel and recycling industry and waste management sites among others. This resulted in 10k+ download of the app and increase of the overall sales.

Scope of work

- Implement communication over Bluetooth 4.0 (BLE)
- Add support for the new devices discovery and pairing
- Ensure immediate receiving and display of real-time measured data on radiation rate
- Implementation of storage of event history in various formats
- Implement positioning support, and integration with Google Maps to show the route map of the device movements
- Ensure sound and visual alerts when the radiation rate is exceeded
- Provide sharing of data over social networks
- Integration of the RadResponder protocol to upload data on the server and user interface for configuring connection to the RadResponder server
- Publish the app to Google Play

Activities

- Requirements definition
- Software development
- User interface design
- Functional, system and regression testing
- Bug fixing
- User guide creation (bilingual)
- Support by request

About the project

Technologies

- Android SDK
- Java
- XML
- Bluetooth 4.0 (BLE)
- SVN
- SQLite
- JSON
- Axure

Project size

- 2 people

Duration

10
months

Platform

- Android OS 4.3