Software Tender

DVT

http://www.dvt.co.za/

KinderFinder

Team Members

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Introduction

We are a team of third year Computer Science students that are passionate about computers. We feel that there is still much that can be done with computers in the security sector, and we, as a group, feel that the safety of children should be a top priority. Parents will always worry about the safety of their children, we are hoping that when the development of this project comes to fruition, parents will be able to sit down to a meal and not be constantly worried about their' children's whereabouts.

Problem Description

KinderFinder is a project for the purpose of helping parents keep track of their' children's whereabouts at a restaurant. Using client browsers and a mobile application, parents should be able to view their children's whereabouts at the specific venue. RFID tags in the form of wristbands will be worn by the children to be tracked and RFID receivers will read the frequency of the bands to determine the whereabouts of the children.

Proposed Solutions

Our solution is to develop a well-structured, high quality system that is trustworthy and scalable. We have experience in working with electronics, circuitry , web applications, including databases, client– and server-side scripting. During the last three years while studying, we have learnt about various design patterns, which allow us to develop reliable programs that can be easily maintained and upgraded. Our team is familiar in all the technology preferences and meet all the required skills to bring this project to DVT, with the high standards that DVT upholds.

Our solution is to use the RFID wristbands and RFID receivers to read the whereabouts of the children, Using this information and a map of the venue that will be created the data gathered from the receivers will be able to be viewed securely on the parents' device of choice.

Thank you for your time.

Sincerely,

Michael, Po-Han and Uteshlen.