

CLIENT NAME: DVT
PROJECT NAME: KINDERFINDER

KinderFinder User Manual

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1 Welcome to KinderFinder

1.1 What is KinderFinder

KinderFinder is a solution that uses indoor tracking of people , to assist with a common problem in public places. Many restaurants aim to give parents a worry free dining experience, by providing facilities to entertain, and safely look after their children.

However, a parent still has the worry, and consistent need to ensure their children are still in the safe and designated areas. KinderFinder attempts to assist the parents in being able to make sure their children are still in these areas without the need to get up from their tables.

2 About this manual

- Please read this manual before using the device to ensure safe and proper use.
- Please read this manual before using the device to ensure safe and proper use.
- Descriptions are based on the devices default settings.
- Images and screen shots may differ in appearance from the actual product.
- Content may differ from the final product, or from software provided by service providers or carriers, and is subject to change without prior notice.
- Content (high quality content) that requires high CPU and RAM usage will affect the overall performance of the device. Applications related to the content may not work properly depending on the devices specifications and the environment that it is used in.
- Available features and additional services may vary by device, software, or service provider.

3 Getting started

3.1 Set up

Congratulations on your purchase of the KinderFinder system, this manual should help you get the most out of the KinderFinder system installed.

3.2 Installation

3.2.1 Software

If you are purchasing the KinderFinder software for an establishment, good news, there is minimal installation required. All software necessary is on the cloud. Navigate on a web browser to www.kinderFinder.co.za to view the Administration Portal that will provide one with the necessary admin tasks that will be discussed later.

3.2.2 Room Maps

As you are aware, KinderFinder uses a map of the room being monitored to view the locations of tags worn by users. In this regard, a map of the room must be made and uploaded to the admin portal. The .JPG format for the map file would be sufficient. On the mobile application it would look similar to figure 1 below.

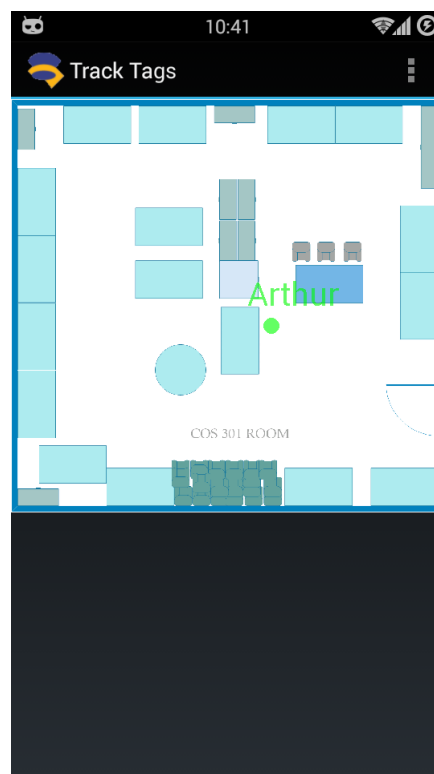


Figure 1: Map view in mobile application

3.2.3 Receivers

Receivers are devices that pick up the signals from tags worn by users. These receivers should be placed at the edges of the room for maximum range and location capabilities. Refer to figure 2 for the optimal places to place the receivers.

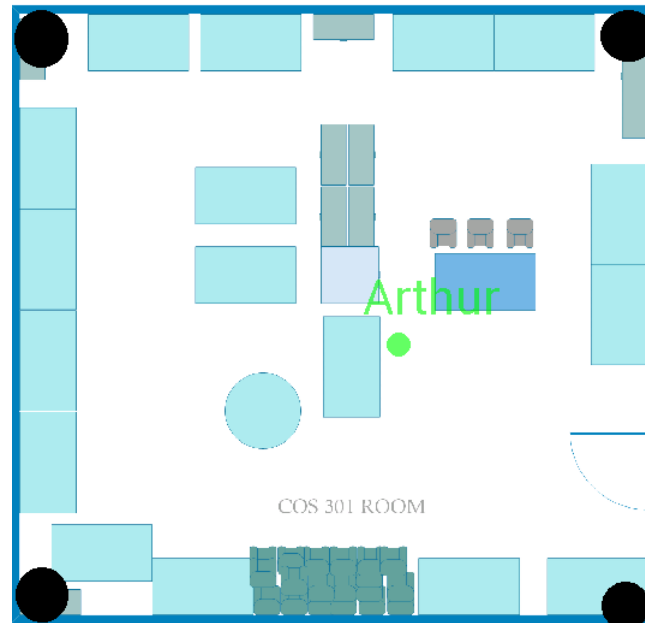


Figure 2: Optimal receiver placement

Setting up Receivers Receivers used in KinderFinder are android mobile devices. The application that needs to be installed on these devices is called "Transmitter" and should be run from the device. Upon opening the transmitter application, choose the establishment the device will be used in and then the place in the room the device will be in X and Y Cartesian co-ordinates. Tap the "Transmit" button and the application will start to transmit to the server. Do this for all mobile devices used as receivers.

4 The Administration Portal

Each establishment will have an administrator. The job of the administrator is to add and register users, in this case, register parents who would like to know the location of their children and the assignment of tags to the users.

4.1 Administration Portal

The main page of the administration portal is depicted below in figure 3

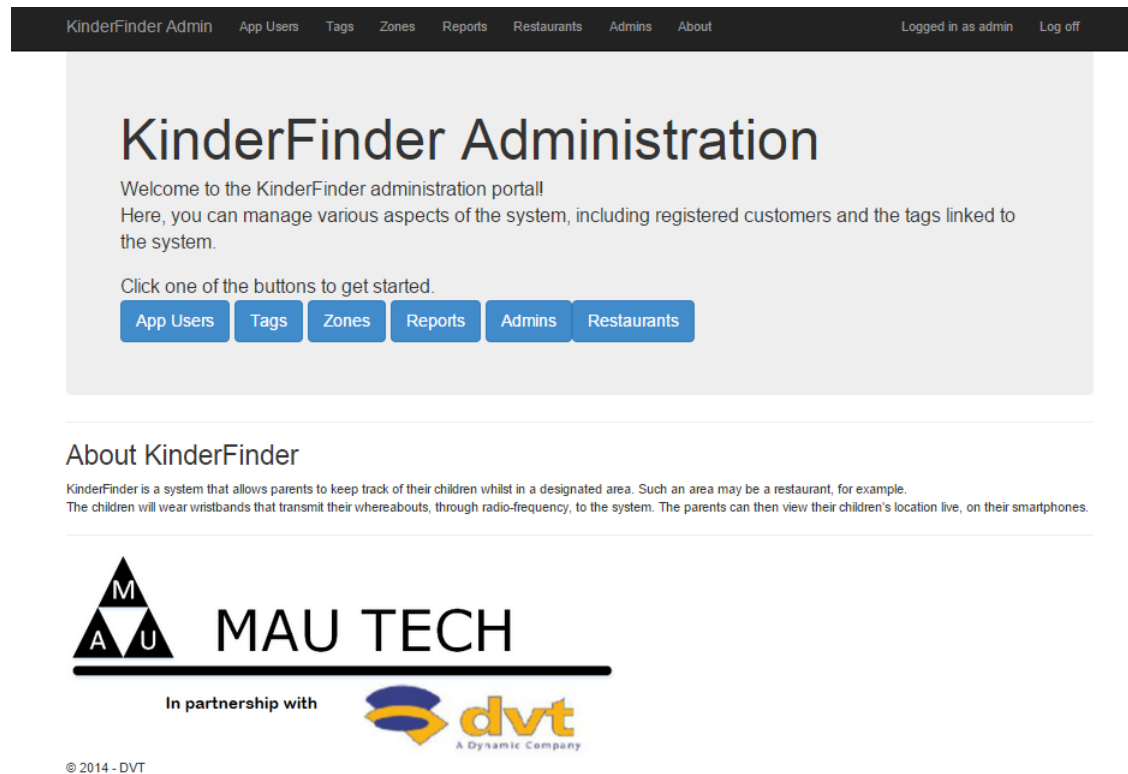


Figure 3: Administration Portal

4.2 App Users

Figure 4 below depicts the administration portal. For your establishment, all users will be shown here and can be edited and removed from the program by the admin.

KinderFinder Admin App Users Tags Zones Reports Restaurants Admins About Logged in as admin Log off

List of App Users

FirstName	Surname	EmailAddress	PhoneNumber	CurrentRestaurant	
Mike	Johnston	mrbean@gmail.com	0835257243	Demo Room	Details Delete
Arthur	Someone	Arthur@test.com	0123456789	Demo Room	Details Delete
Tesh	None	test@Tesh.com	0123456789	Demo Room	Details Delete



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Figure 4: Administration Portal

4.3 Tags

Figure 5 below depicts the "Tags" tab. Here, admins can assign tags to registered users and either free tags or edit the usage of these tags. Also, these tags can be deemed out of order if a report shows that the tag itself no longer functions.

KinderFinder Admin App Users Tags Zones Reports Restaurants Admins About Logged in as admin Log off

List of Tags

[Create New](#)

Label	Restaurant	CurrentUser	OutOfOrder	
Tag1	Demo Room	Mike	<input type="checkbox"/>	Details Edit Delete
Tag2	Demo Room	Mike	<input type="checkbox"/>	Details Edit Delete



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Figure 5: Administration Portal

4.4 Zones

Each establishment will have allocated zones, places that will be monitored. Here the user can monitor zones for a particular establishment.

The screenshot shows the 'Zones' management page in the KinderFinder Admin portal. The top navigation bar includes links for KinderFinder Admin, App Users, Tags, Zones, Reports, Restaurants, Admins, and About. The user is logged in as 'admin'. The main content area is titled 'Zones' and includes a link to 'Create New Zone'. Below this is a table with columns for ZoneName, Restaurant, and Preceding Zone. The table lists four zones: ZoneA, ZoneB, ZoneC, and ZoneD, all associated with 'Demo Room'. Each row has a link to 'Edit | Details | Delete'. At the bottom of the page is the MAU TECH logo, a partnership with dvt (A Dynamic Company), and a copyright notice for 2014 - DVT.

ZoneName	Restaurant	Preceding Zone	
ZoneA	Demo Room		Edit Details Delete
ZoneB	Demo Room	ZoneA	Edit Details Delete
ZoneC	Demo Room	ZoneA	Edit Details Delete
ZoneD	Demo Room	ZoneB	Edit Details Delete

Figure 6: Administration Portal

4.5 Reports

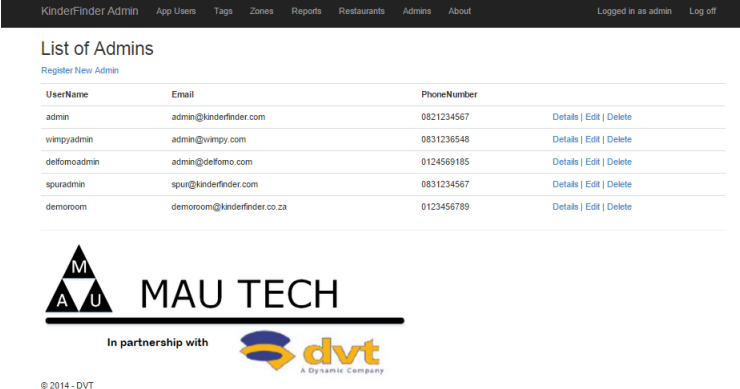
The reports page can generate reports for the user based on tags, zones and application users. Greater administration privileges will be needed to access some of the reports.

The screenshot shows the 'Reports' page in the KinderFinder Admin portal. The top navigation bar is the same as in Figure 6. The main content area is titled 'Reports' and includes a welcome message: 'Welcome to the KinderFinder reports page! Here, you can view reports of the system.' Below this is a link to 'Click one of the buttons to view a report.' and three buttons: 'Tags Report', 'App User Statistics', and 'Zone Status Report'. At the bottom of the page is the MAU TECH logo, a partnership with dvt (A Dynamic Company), and a copyright notice for 2014 - DVT.

Figure 7: Administration Portal

4.6 Admins

Here users who have higher administration privileges can add administrators to a specific establishment.



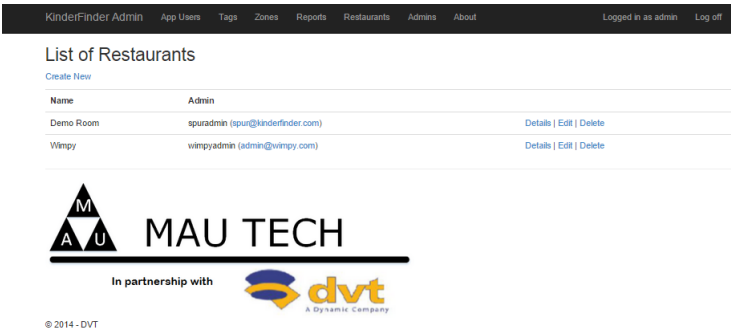
Username	Email	PhoneNumber	
admin	admin@kinderfinder.com	0821234567	Details Edit Delete
wimpyadmin	admin@wimpy.com	0831236548	Details Edit Delete
delfomoadmin	admin@delfomo.com	0124569185	Details Edit Delete
spuradmin	spur@kinderfinder.com	0831234567	Details Edit Delete
demoroom	demoroom@kinderfinder.co.za	0123456789	Details Edit Delete

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Figure 8: Administration Portal

4.7 Restaurants

Clicking on the restaurants tab will open the list of restaurants that can be viewed, restaurants can be added and removed or edited by the system administrator.



Name	Admin	
Demo Room	spuradmin (spur@kinderfinder.com)	Details Edit Delete
Wimpy	wimpyadmin (admin@wimpy.com)	Details Edit Delete

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Figure 9: Administration Portal

5 Mobile Application - Android

KinderFinder's main interface with its registered users is the mobile application, here one can view the locations of all the linked tags and add specific names to each tag linked to a user's account.

5.1 Log in

When the app opens, this page is the first page the user will be directed to, here one can log in, or, if one has not registered with the app, click on the "register" button to register.

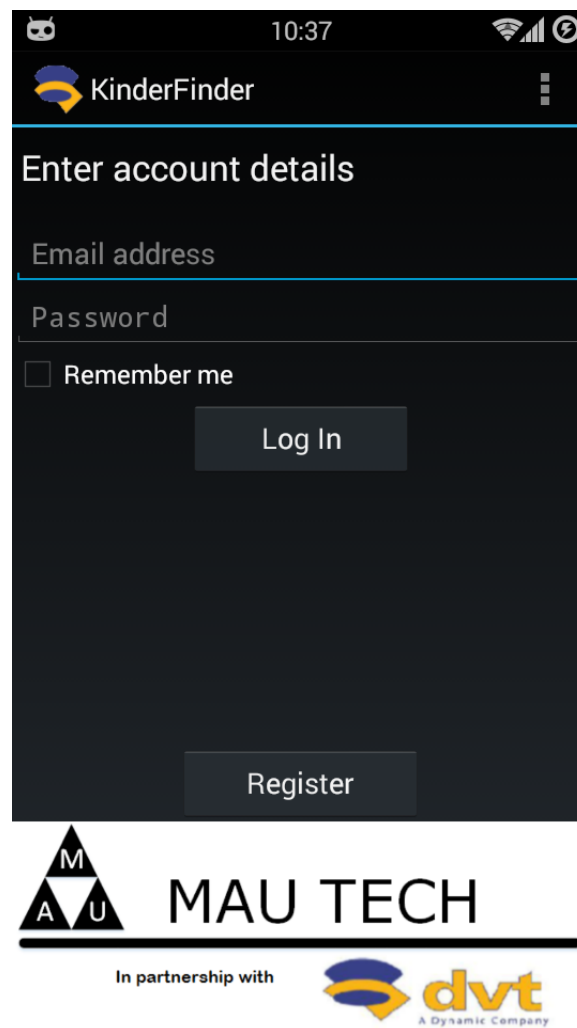


Figure 10: KinderFinder Mobile Application

5.1.1 Registration

To register with the application, just add your details as below in figure 11 to register.

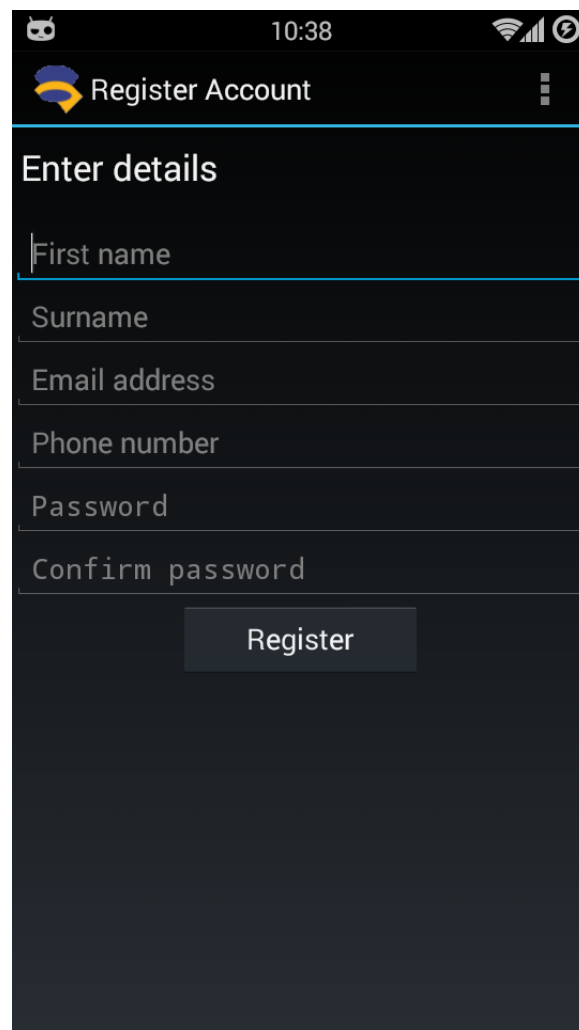
A screenshot of a mobile application interface for account registration. The screen has a dark theme. At the top, there is a status bar with a cat icon, the time 10:38, and signal/battery icons. Below the status bar is a header with a blue and yellow logo and the text "Register Account". The main content area is titled "Enter details" and contains six text input fields stacked vertically: "First name", "Surname", "Email address", "Phone number", "Password", and "Confirm password". Each field has a light blue border. Below the input fields is a dark grey button with the text "Register" in white.

Figure 11: KinderFinder Mobile Application

5.2 Link Restaurant

After a successful log on, users will have to specify which establishment they are visiting by choosing the restaurant they want to link to. This is done by searching through a list of restaurants using KinderFinder and choosing the one that matches the name of the restaurant the user is dining at.

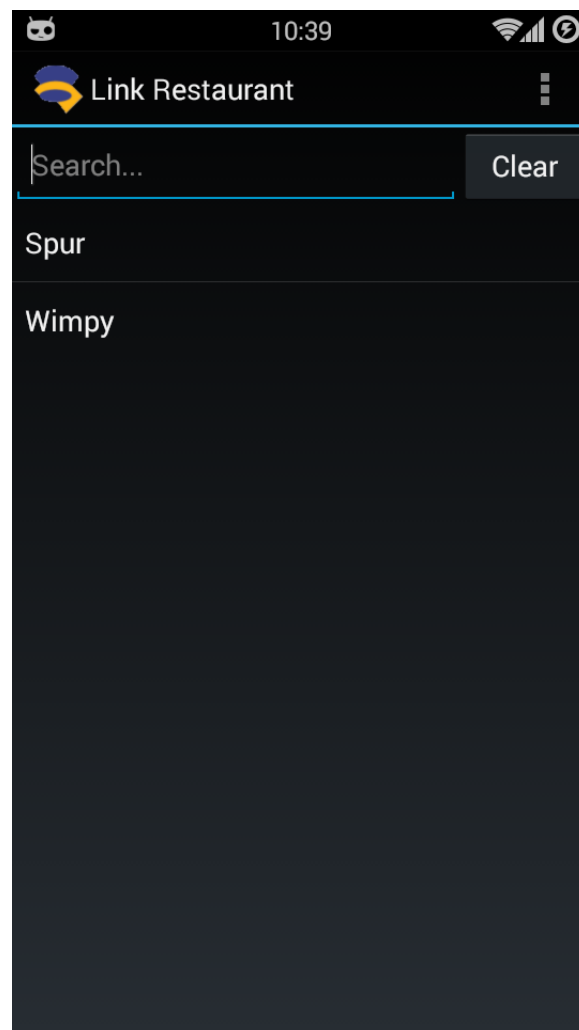


Figure 12: KinderFinder Mobile Application

5.3 Tags View

A list of tags registered to the user is shown here, from here one can assign names to tags (to specify and help remember which tag is being worn by a specific child).

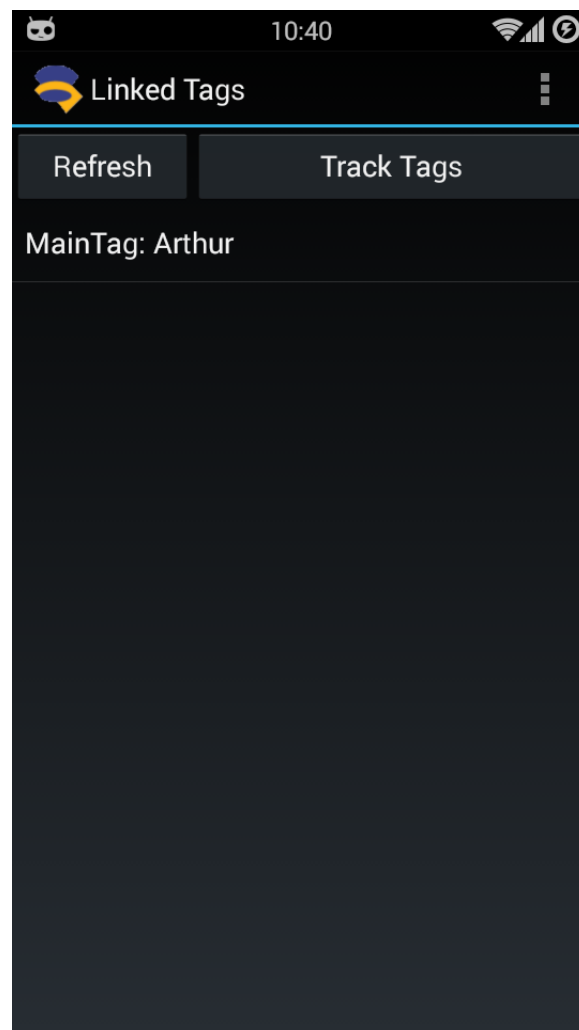


Figure 13: KinderFinder Mobile Application

5.4 Map view and tracking

Here, all the tags in the restaurant will be visible on a map of the restaurant areas and zones. If a child goes out of a zone for what ever reason, the phone will vibrate and beep to inform the parent of this.

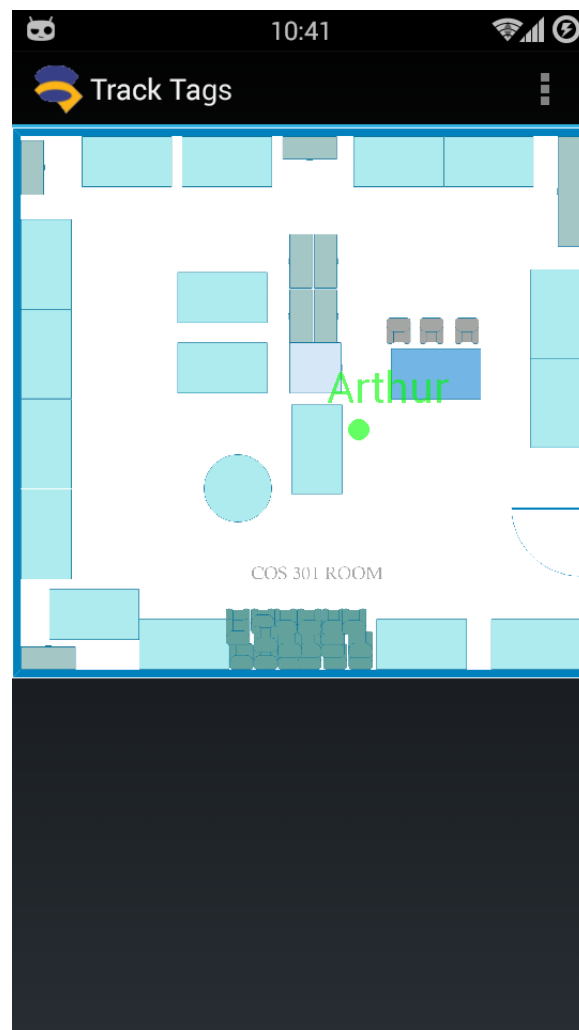


Figure 14: KinderFinder Mobile Application