Jail Tracking Mobile Application

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Abstract
Jail systems would like to leverage current mobile technology to help with daily tasks of inmate data collection. Per laws and regulations, prisons facilities are liable for the health and safety of inmates which includes access to recreation and exercise. A documented log must be kept in order to prove inmates were given such opportunities.

This is a mobile application that is to be used by prison guards to quickly scan barcodes to keep track of inmate time and location. It is user friendly and is intuitive allowing users to learn the functionality fast.

Architecture
Our application was built for Android devices 4.3 Jelly Bean API 18. Android OS has a wide variety of devices that the application can be loaded into making it more flexible in choosing a device. Since the application was built in Android Studio, the application can be easily upgraded for future iterations.

Android has a java backend which allows the device to harness the powerful capabilities of the language.

Impact
The majority of the daily activities performed in a jail facility involve tracking inmates or collecting data to be used to provide services to inmates. The biggest hurdle in the process is the location in the jail where the data collection needs to take place.

With our application, officers will be able to do just that. Our application will enable prison officers to collect data with ease and upload it to Odyssey Justice database. This process will significantly reduce the chance for misreporting due to tedious manual logging.

Results

Summary
The top picture displays the layout of the application. Once the application is loaded, it is designed that you cannot get out of it to any other applications. Once you log in, you choose between several tracking tools.