4th United States Circuit Court of Appeals – Scan Inventory

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The 4th United States Circuit Court of Appeals requested that a native iOS application be developed to better utilize their existing inventory web application on iOS devices. The existing web application was difficult to navigate on mobile devices and did not expose a public API for interacting with the existing database. Therefore, it was desirable to have a native application that was tailored to mobile devices and also provided an API that could be consumed by future applications.

The project sought to provide employees of the Court with a user friendly manner of looking up and verifying the status of existing inventory. The app also utilized the built in cameras of mobile devices to scan barcodes in order to reduce the need for accessory devices.

The solution was centered around a native iOS application that was written in an established web framework and translated to native code which allows for the application to later be deployed to Android devices or as a traditional web application. The middle tier, that provides access to the existing database, was designed to be consumed by multiple applications while providing security on all HTTP endpoints. The modular design of both elements leaves open the possibility of extending functionality at a later date.

Keywords: iOS, Angular, Node, REST