



## iOS Programming Project Summary *Asset Inventory System (AIS)*

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Inventory management can be one of the most difficult and time-consuming aspects of operating a successful business or institution. By doing a poor job tracking products available for use can cause great financial burden and unnecessary purchases, which leads to enormous losses and overlooked opportunities. Therefore, our goal was to create an iOS application that will help users organize all the items fast, hassle-free and efficiently.

Furthermore, the application targets not only businesses but can be used for home and individual entities as well. The application, Asset Inventory System (AIS) allows the user to store detailed records of the inventory on a secure database through any iPhone. As an extended feature, the application gives you the ability to update stock movements in real time. Additionally, the software designed allows the user to add an inventory item to the system, to check-out and to check-in inventory items. The application displays all the inventory items isolated by item checked status with alternating backgrounds to differentiate records. This is managed by using MySQL server to store data and manage the inventory. The program uses a user interface table view to display all possible menu options and a view controller is used to add assets to the system. Most importantly, the program exchanges data securely using a random generated 64-bit API key programmed using PHP and JSON to prevent unwanted access. Lastly, the application scheme has potential to expand to individual asset based user accounts, assigned location or individual, barcode scanning via camera, GPS tagging, report tracking and more.

