Project: Hardware Asset Tracking

COP 2335

Spring 2015

Prof. Adnan Zejnilovic

Team Members

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Problem Description

Engineering & Technology Department (EnTec) in Miami Dade College has purchased quite a few tablets to aid in teaching mobile technology courses to its students. EnTec faculty often organize events such as high school mobile app competitions, demo-days in order to promote MDC curriculum.

The tablets are stored in 2 locked cabinets. Faculty who teach mobile development applications, checkout the tablets every week before each class by filling out a spreadsheet that has MDC asset tag and tablet serial number. When they return from the class, the tablet serial numbers are matched against the serial numbers in the checkout spreadsheet and if everything is OK (no damage) stored back into their respective cabinets. In case there is damage, an incident report is filed. The incident report is a word document that is printed, filled out, scanned and emailed to the appropriate EnTec personnel.

The process is the same when tablets are checked out for an event. On few occasions, there were conflicts because tablets were "reserved" via email for the same time slot resulting in a lot of frustration.

The process is extremely time consuming and needs to be automated. Your team was hired by the EnTec Department to implement a solution. Following is a list of deliverables

Deliverables

Deliverable	Description	Value
Scope Document	Scope document outlining the scope of the project (5%). Start with the above mentioned information and outline a list of features that will be implemented. Define which features are in scope and which features are out of project scope. Also, specify "must have", "should have", and "could have" features. Get your project sponsor to sign off on the scope.	5%
Requirements Document	Gather additional requirements and document them.	25%
Design	Design your solution using UML.	20%
Implementation (Source Code)	Implement the system (source code) using either Visual Studio 2010 (C++ with .NET) or Qt	40%
Presentation	You will have 40 minutes to present your design, and explain the reasons for your design decisions/implementation details (i.e. data structures used, etc.)	10%