**Inventory System for Minor and Major Equipment**

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***Abstract:*** *Currently the University of North Dakota Computer Science department (UND CSci) tracks its equipment via a simple spread sheet program. Under the current system each piece of equipment is given a barcode representing a unique identification number which then then must be manually added to the inventory spread sheet. This is a time-consuming task combined with the access issue presented with storing this information in a single spread sheet file makes the current system inefficient and to an extent risky to use. This project was aimed at replacing the current system with one that will allow multiple users easy access to the inventory data as well as speed up the entry process by scanning each items barcode with there phone camera. To accomplish a web application was built to store….add quarter of a page more*

**INTRODUCTION:** The departments at the University of North Dakota (UND) have two types of inventory that must be kept track of: major inventory which consists of things costing over $XXXXX and minor inventory consisting of things under the same amount. The computer science department currently handles tracking its inventory by giving each item a unique identification number and manually adding it with all the relevant information about the item to a spreadsheet in a program similar to Microsoft Excel.

This creates an access and a matanence problem based on the spread sheet being a singular file. Only the person with the file can access it, copies can be made and distributed to allow more access to the file but any changes made will not be shared. Should the original file be lost the entirety of the departments inventory would need to be manually reentered. The goals of this project are to create a means for multiple users to have easy access to inventory information and speed up the entry of that information in to the system.

This is not the first attempt at this project at least two previous attempts were made both starting from scratch. The second of the two attempts used a website in order to allow any devise with a web browser to access and update the inventory information. At the beginning of this project the original plan was to continue building off of this website. Unfortunately do to lack of documentation this was not possible forcing this incarnation of the project to scratch. A new goal to provide enough documentation to allow someone else to pick up where this project ends.

How successful were we with our goals?

One sentence descriptions of the other sections of the paper

**RELATED WORKS:** rip the good ones from the paper we did in semester one

**APPROACH:** discuses why we chose to work in visual studio

Why didn’t we continue of the work of previous years?

This project has been attempted at least twice in the past. We would have liked to build off of what they started but do to lack of documentation we could not.

Why did we try to build a standalone app first?

Why did we abandon that approach?

Why did we switch to a website?

Why did we use the ASP frame work?

**IMPLEMENTATION:** explain how we broke the project down in to three parts.

How did we set up the website part of the project?

How did we set up the database portion of the project?

How did we set up the scanner portion of the project?

What would someone need to know to run our project?

**RESULTS:** Do the web pages work on mobile? On desktop?

Does the database receive, return, and store what it needs to?

Can barcodes be scanned under reasonable conditions and in a resemble period (i.e. less than two seconds turnaround time)?

Is there enough documentation for others to continue working on this.

**FUTURE WORK:** Spit ball ideas on where to host this web page.

Features could be stream lined or added?

**CONCLUSION:** Acknowledge success or failure.

Highlight how we set this up to be built upon.