Technical Specification / Schedule
Vendor Tracking System

Team 1: Auto-Owners
CSE 498, Collaborative Design

Clay Boylan
Kenny Davidson
Nick Frattoril

Department of Computer Science and Engineering
Michigan State University

Spring 2008
Project Overview

- Develop a web-based application to check vendors (and possibly all visitors) in and out of the building and assign them visitor tags branded with a barcode to identify them.
- This will be done by using ASP.NET and C# while using a SQL server backed database.
- The Project will maintain records of all guests to visit the premises.
Functional Specifications

• The Problem: The current check-in/out process is slow, inefficient, requires paper records, and minimal visitor forecasting and information.

• The system will simplify the check-in/out procedure and increase the efficiency and speed of this process.

• Features:
  – Reports
  – Email Notifications
  – Easy Check-in/out with barcode scanning
System Components

• Hardware Platforms
  – Barcode Scanner
  – Printer
  – Server
  – Client Computers
  – Kiosk

• Software Platforms / Technologies
  – Microsoft .NET Framework
  – Windows Environment (SQL Server, IE7, etc)
Architecture Illustrated

<table>
<thead>
<tr>
<th>HTML</th>
<th>ASP.Net</th>
</tr>
</thead>
<tbody>
<tr>
<td>C#</td>
<td></td>
</tr>
<tr>
<td>SQL</td>
<td></td>
</tr>
<tr>
<td>Assembly</td>
<td></td>
</tr>
</tbody>
</table>
Database Schema

Team 1: Auto-Owners
Web Pages

- There will be about 8 web pages that the user can visit
- Some pages are only accessible if the user has rights
- Some features on the homepage will only appear if the user has rights
- Rights will be assigned by an Admin or managers only
- Kiosk will display page in which user has rights to enter information into the system
Homepage Mockup

Team 1: Auto-Owners
Risks

- Mastering C# and ASP.Net
  - These are the two primary languages that we will be coding in and currently we only have mild experience.
  - Continue reading books on subject matter and build simple prototypes in the languages.

- Barcode Print Page
  - How to create a document that can be easily sent to any printer and print off barcodes in the correct format.
  - Research pre-existing templates for labels and create a standard for template barcode printing.
Project Schedule

1. Alpha Build 2/3 point
   a) Goal: 2/3 of all pages designed but not completely functional
   b) Date: 02/02/08

2. Alpha Build
   a) Goal: Have a working web site prototype
   b) Date: 02/08/08

3. Beta Build ½ point
   a) Goal: Basic DB structure and queries successful
   b) Date: 03/01/08
Project Schedule

5. Beta Demo
   a) Goal: Implement C# and full DB access
   b) Date: 03/17/08

6. Company Beta Evaluation
   a) Goal: A.O. verifies the beta build
   b) Date: 03/20/08

7. Code Freeze
   a) Goal: No new features add. Full Functionality
   b) Date: 03/31/08

8. Zero Bug Day
   a) Goal: Testing finishes and all Pri. 0 bugs fixed
   b) Date: 04/14/08
Project Schedule

9. Project Video
   a) Goal: Video presentation of final product
   b) Date: 04/21/08

10. Design Day Page
    a) Goal: Written page for Design Day Booklet
    b) Date: 04/22/08

11. All Deliverables Complete
    a) Goal: Complete and turn in everything
    b) Date: 04/23/08

12. D-Day!!!
    a) Goal: Design Day!!!
    b) Date: 04/25/08