

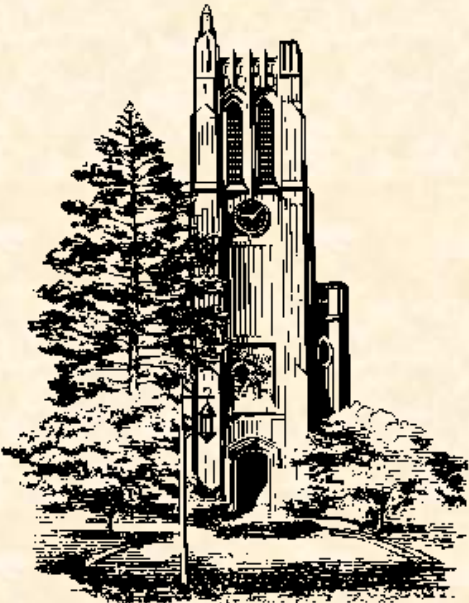
Technical Specification / Schedule Vendor Tracking System

Team 1: Auto-Owners
CSE 498, Collaborative Design

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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

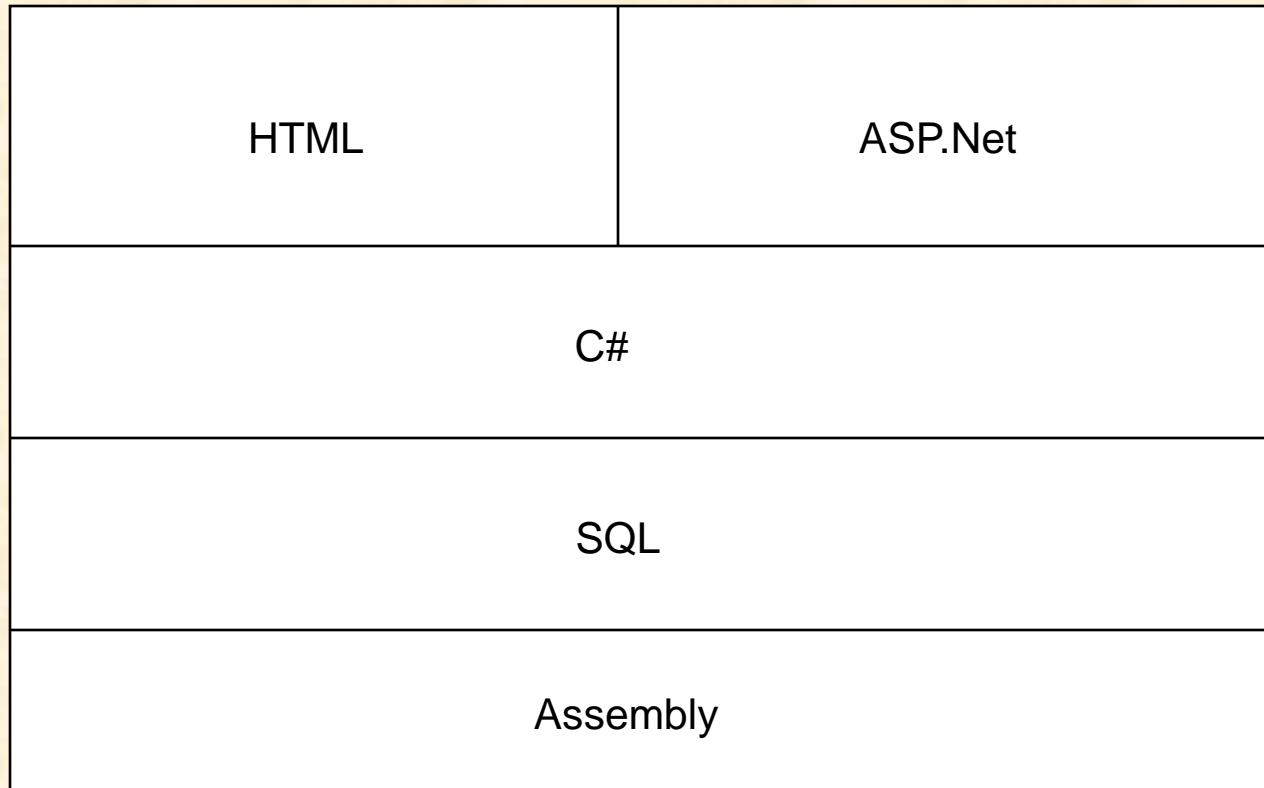
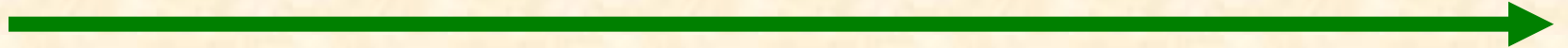


System Components

- Hardware Platforms
 - Barcode Scanner
 - Printer
 - Server
 - Client Computers
 - Kiosk
- Software Platforms / Technologies
 - Microsoft .NET Framework
 - Windows Environment (SQL Server, IE7, etc)



Architecture Illustrated

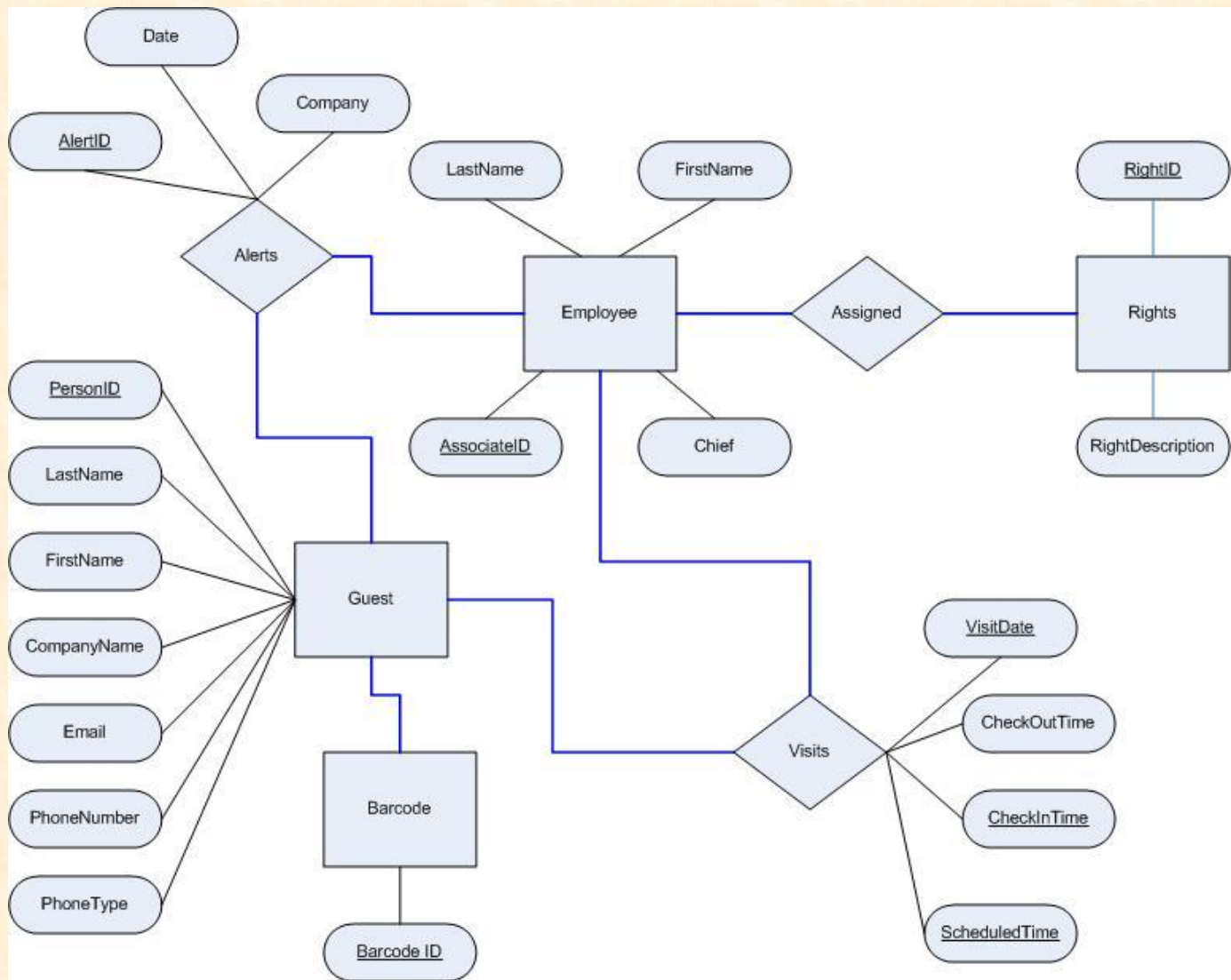


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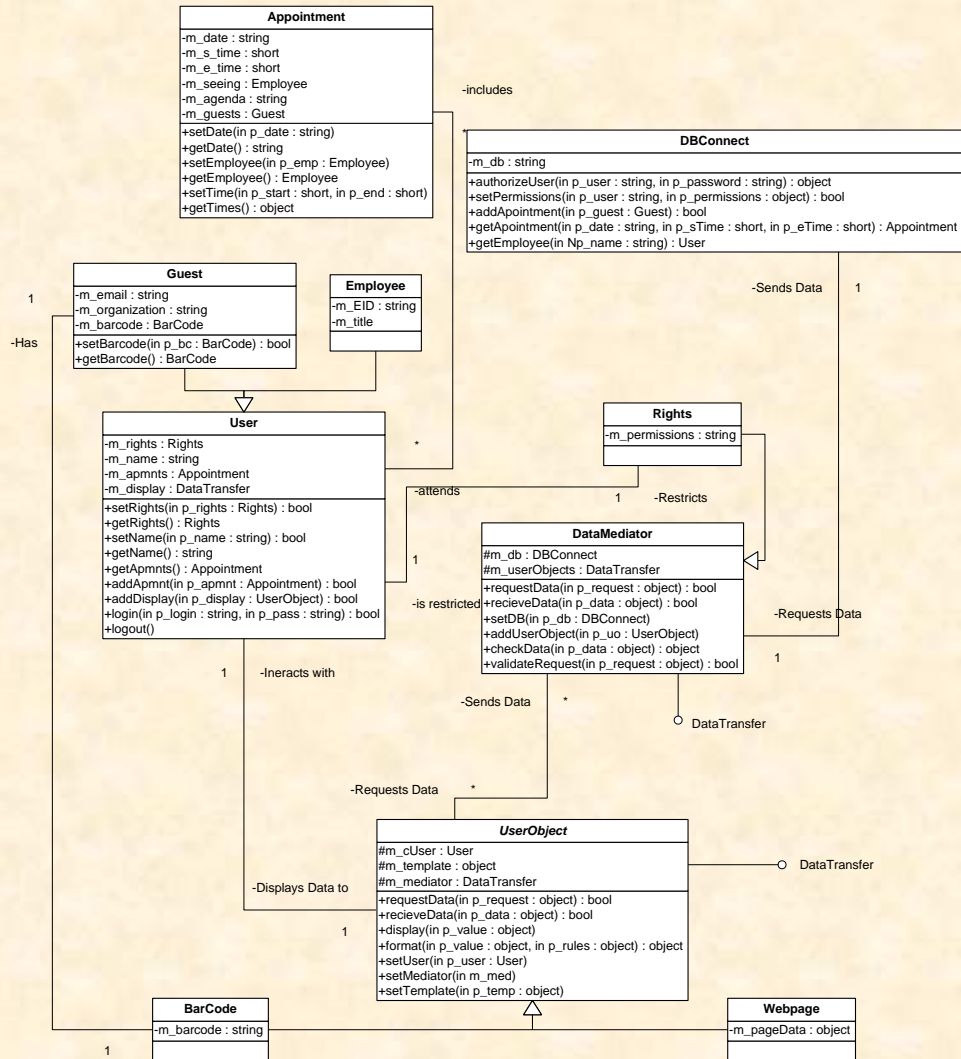


Database Schema

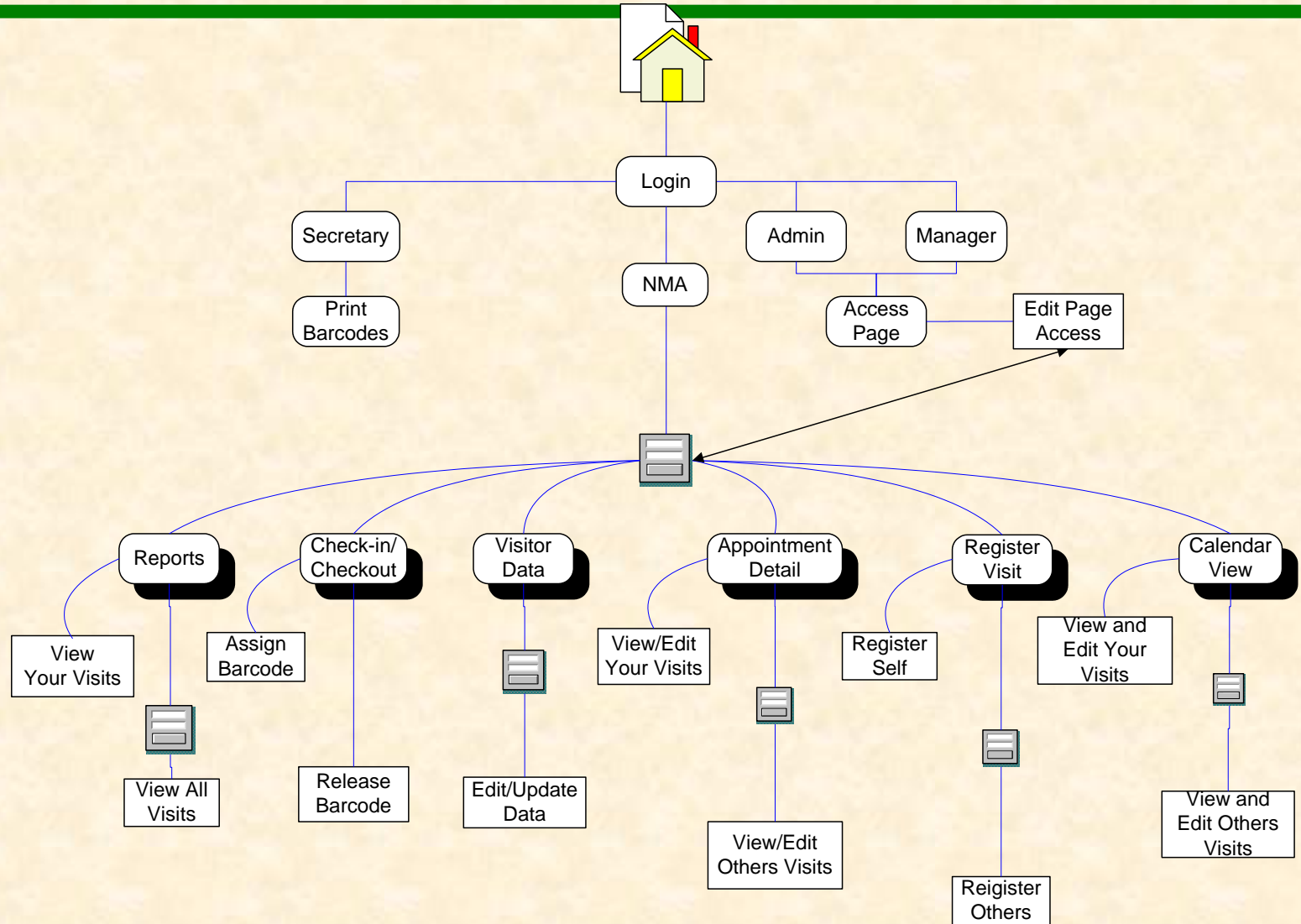
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Class Diagram



Web Page Flow



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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

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The mockup features a grid background. On the left, there are two vertical lists: 'Currently On-Site' with names Smith, John; Doe, Jane; Lee, Jason; Bob, Silent; and 'Scheduled:' with Jay; Smith, Kevi; Lord, The D. At the top right, a dark blue box contains the text 'Auto-Owners Insurance'. Below this, a navigation bar includes links for Check-In, Check-Out, Admin, Reports, Register a Visit, and Calendar, with sub-links for Print More Barcodes and Visitor Data. A 'Log In' form is positioned in the lower-left area, containing fields for User Name and Password, a 'Remember me next time' checkbox, and a 'Log In' button.



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 1/2 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