

# CIS 690 Implementation Project Proposal

## Content Management Systems Using Custom Providers

Prashanth Palakollu  
Graduate Student (M.S)  
Department of Computing & Information Sciences  
Kansas State University

### Executive Summary

The main objective of this project is to get familiar with the .Net framework and to understand the internal working of the Providers for different services. I will also be building a Content Management System website using ASP.Net 2.0 (using C#) and Oracle 10i.

### Introduction

For most of the existing portals using ASP.NET 1.0, the providers for different services have to be written every time a new portal needs to be set up. In ASP.NET 1.0, developers who wished to store state in different storage media were faced with the daunting prospect of rewriting large portions of ASP.NET. ASP.Net 2.0 ships in with SQL providers but provides only the base classes as reference for writing providers for other data sources like Oracle databases, DB2 databases, XML files, or even data sources front-ended by Web services. I intend to code the providers for Oracle using the base classes as a reference for making it easier for the future projects. ASP.NET 2.0 includes lot of new and extended features as compared to ASP.NET 1.0. In addition, I would like to get a thorough understanding of other web technologies like XML, JavaScript, CSS, HTML and Oracle 10i. I would be writing the providers for Membership, Role Management, Profile, Session State, Page, Sitemap and Web Parts personalization services.

### Website Features

- Admin Functionality
  - Adding and removing new users
  - Administrator can add different modules to different users. For ex:-
    - Module Types
    - Roles
    - Tabs
    - Site Settings
    - Manage Users
    - Contacts, Discussion
    - Events
    - Links
    - Quick links
    - XML/XSL
    - Image Upload

- Search and View User Information
- Edit User Roles
- Assign Forum Admins
- Users
  - User Registration
  - User Login and Lost Password
  - The users are assigned different roles and depending on the roles, they can modify the content of the website.
- Browser Compatibility and ADA compliant
- SSL secured

### **Technical Approach**

- Design process
 

The complete design of the project will be divided into different phases:-

  - Understanding ASP.NET 1.0
  - Understanding ASP.NET 2.0
  - Database Design
  - Writing Oracle Provider's for different services
  - Coding the different web pages
  - Testing
- Performance
  - Performance will be analyzed by using Microsoft Application Center test tool
  - ANTS(Advanced .NET Testing System)
  - NUnit for Performance testing.
- Tools
  - Microsoft Visual Studio 2005
  - Oracle Enterprise Manager 10g

### **TimeLine**

I plan to complete this project by the end of the spring 2006 semester

### **Deliverables**

- Final 690 Implementation Project Report
- Complete Project Code/files
- Online Link for the working website