Current System

Maclear’s enterprise, governance, risk and compliance (eGRC) suite is a centralized software tool providing transparency into enterprise-wide risk to management

Problem
The Macler eGRC software suite currently supports a SQL based authentication system, which suffers from the following issues:
- ineffective at maintaining user profiles
- failure to support single and multi-factor authentication mechanisms
- security vulnerabilities
- complex maintenance and scalability

Proposed Service Architecture

The implementation of Lightweight Directory Access Protocol (LDAP) provides a hierarchical directory structure used to access information located on a server over an Internet Protocol network

LDAP Benefits:
- single sign-on implementation
- faster read access
- improved security
- simple maintenance
- scalability

Research
- Competitor authentication methods
- Implementation of LDAP and single sign-on

Development
- Agile Methodology
- Pilot Code developed in C# and .Net framework
- Weekly updates and code reviews

Future Project Roadmap
Develop a fully functional single sign-on module implemented with active directory services within the eGRC software suite

Solution Delivery

Pilot code for the active directory, which locates a user on the server

Administrator user interface of the LDAP configuration

Sponsor: Hanno Subramaniam
Team: Benjamin Farabelli | Mrudul Marathay | Krutika Vyas
Advisor: Michael Crandall