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| SAN FRANCISCO COORDINATING CENTER |
| Secured Login Website Prototype |
| Initial Specifications and Deliverables |
| *Revision 1* |
| **Produced by Remi Frazier** |
| **11/8/2013** |

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# Specifications

INITIAL STATEMENT OF NEEDS  
My initial understanding, based on the presented problem statement, is that you need a login system constructed, which permits users to land on a webpage, enter a login and password combination, and upon successful authentication be permitted to view pages on an otherwise secured website.  The initial description stated that the system needed to be in Microsoft SQL, and that logins should require email confirmation to authenticate.

## USE CASES Assuming that my statement above is generally accurate:

### Does the secured website need to have any specific content, or are you seeking only the login/authentication system as a deliverable?

At this time, the client requests a content-free site, with secured and unsecured directories which can be used to publish content. Content in the unsecured directory (and associated subdirectories) can be viewed by the general public; in order to view any content in the secured directory (and associated subdirectories), users must create an account with a valid email address and log in.

### Are there any specific text, graphics, or styling which the login web page needs to contain or adhere to?

The title of the client organization (“San Francisco Coordinating Center”) should appear at the top of each page. Otherwise a “bare bones” login page is acceptable for the initial product.

### Does the secured website need to be able to display data from or interact with the MSSQL backend database, or is the purpose of the MSSQL backend database solely for storing login information?

The website should authenticate users against a MSSQL backend database. At this time, content from a second database does not need to be displayed.

### Do the administrators of the system require a tool for adding/removing/editing users?  If so, should it be a web tool or a standalone application?

At this time, security roles are not requested. User administration can be accomplished directly through SQL or through the IIS web site administration tool.

### Can end users create accounts on the web site *de novo*, or can new accounts only be added by administrators?

End users should be able to create accounts without interfacing with administrators.

### If end users can create their own accounts, do logins need email confirmation for initial authentication only, or is authentication required for every login (ie, in a two-factor authentication scheme)?

Email confirmation is necessary for initial authentication only. Two-factor authentication should be considered for certain security roles for future versions.

## SCOPE AND CAPACITY PLANNING

### What kind of data will the secure system (behind the login) be used for?  In addition to other security needs, do I need to plan or prepare for any regulatory compliance (ie, HIPAA, or human research, or any other institutional standards -- including password guidelines)?

At this time, the data provided in the secure system has not been determined. For now, demonstration of security-protected directories will be sufficient to show that the login mechanism works. The system should be constructed in such a way as to permit future extensibility: In particular, developers should expect that SHA3 encryption will be necessary in a future version, and that HIPAA guidelines for data storage will eventually be needed.

Passwords should be at least 8 characters in length and require at least one non-alphanumeric character in order to comply with institutional standards.

### Who will be using this system?  Who are the end users?  The administrators?  Are there other stakeholders I need to be aware of?

At this time, users will include members of the UCSF community. Administrators will be personnel in the SFCC organization.

### What is your estimate of the absolute maximum number of users of this system over its lifetime?  How many users would you anticipate will use the system on a regular basis?

Developers should expect no more than 100 users of the initial version of this system – principally internal test accounts. Future versions should be capable of serving a very large user base, exceeding 10,000 individuals in certain patient studies.

### What do you see as the future role of this system?  How long do you think it will remain active?

The future role of this system has not yet been determined.

## PLATFORMS AND INTEROPERABILITY

### Do you have any data about what kinds of browsers your end-users use?

No.

### Does the site need to be capable of rendering pages to mobile users?  Does it need to do anything different for mobile users?

The site should be capable of rendering pages for mobile users, but does not need to be customized for them.