Log-in Document

**Overall Design:**

The program starts at a home screen where the user is prompted to log-in using a username and password or register an account. Depending on the user’s choice, they will be brought to another screen. A successful log-in will bring the user to the landing page while an unsuccessful log-in will bring them to an error page that will prompt the user to go back to the index page. If the user chooses to create a new account, they will be brought to a similar page to the index page, but prompting them to enter username, password, etc. If the user inputs a username that already exists and tries to submit that username, the user will be brought to a different error screen which will bring them back to the register page. Once an account has been properly added, the user will then be sent back to the index page.

**Data Layer Overview:**

In order to get/send information to the database, select & search sql queries are used. When a user inputs information on one of the jsp pages, servlets are used to compare those inputs with what’s currently in the database and makes a decision to validate the user or not.

**User Guide:**

In order to run this project. Run index.jsp on a server. The server I use is called ‘users’ and the table is named ‘userdetails’. Otherwise the program should be easy to use as any fields and buttons are self-explanatory.

**Development:**

* First step involved reading the requirements of the project and determining what needed to be done. The requirements were rewritten so the information was easier to read and easier to digest
* After reading through the requirements it was time to start planning. My first objective would be to create the index/landing page to get it set up and working. Afterwards I would set up the other pages and get them all linked before adding any further functionality
* In order to link all the servlets and jsp files properly, I had to use a few different methods for each for the different syntaxes. After they were linked, I could start writing the forms for the log-in a register pages. After those I could start writing the servlet code in order to make the proper checks. I created a new database so that the servlets had a server to connect to, but as of right now they don’t have any members.
* After I wrote some of the basic functions, I decided to make another jsp file to notify the user whenever they have an unsuccessful login. This page worked out very well, but I had some issues getting the login screen to have successful logins
* After I finished the issue with logging in, I worked on the register pages. Making sure the servlet was inserting data into the database and that there were no duplicate usernames. If someone does try to reuse a username, they are redirected to another page