**CST8218 – Final Report**

Project: BlogShare

Version: 1.0

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**Changes from Initial Proposal**

We limited our scope by minimizing the privileges feature of the application. We removed the possibility of granting privileges to individual users on a particular post and the possibility of banning an individual user from making edits to a particular blog or post.

The database schema that was initially developed grew slightly as development progressed.

The blog, post and postEdit tables had columns added and the tables blogDeleted and postDeleted were created to aid in the use of BlogShare by multiple users.

We changed the requirement for blogs authors to grant approval to edits, instead deciding to rely on the post edit feature for this task. There is no time limit for committal of edits in a Blog.

**Final Work Schedule**

1. 1. Design and Develop CSS Style Sheets for Look and Feel of BlogShare
      1. **Implemented Bootstrap (front-end framework) elements, as well as a custom css and elements for general styles**
      2. **Created several core jsp files for register/login, creating/editing blogs and posts, and a profiles**
   2. Design and implement basic Database Architecture
      1. **Comprehensive database created including tables for users, posts, blogs and editing privileges for post/blogs**
   3. Implement Database Connectivity between web page and database
      1. **Session management implemented to display active user’s dynamic content from database**
      2. **Users, blogs and posts can be created and edited in the database through the Web App**
      3. **Profiles can be edited and displayed**
   4. Implement basic system architecture
      1. **JSP files used to create dynamic content: lists, links search results etc.**
      2. **Nine servlets used to generate responses from the server:  
         BlogCreate, EditUser, GetBlog, LoadProfile, Login, Logout, PostCreate, Register, Search**
      3. **Servlets manipulate eight classes to query/update database and store information in session:  
         Blog, User, Post, SearchResult, DbConnection, Login, Register, PostEditPrivilege**
   5. Implement Database Connectivity between web page and database
      1. **Database modified to accommodate changed privilege model: public/private blogs/posts**
   6. Implement basic system architecture
      1. **Added functionality to edit existing blog titles, as well as deleting blogs and posts**
      2. **Post editing made possible**
      3. **Added search feature**
      4. **Internationalization implemented and large part of site translated**

**1.0**

* 1. Implement Database Connectivity between web page and database
     1. **Database modified to include post edit history and deleted content**
  2. Implement basic system architecture
     1. **Added feature to view previous post edits, and revert to previous versions of posts**
     2. **Incorporated error reporting to user for various actions, in both languages**
     3. **Final translating and internationalization efforts**

**Distribution of Tasks**

System development was developed in stages by multiple members of the team.

Vince began the task with the development of framework for the Login and Register servlets and Derek used and modified this pattern as needed to develop many of the other servlets in the application.

The visual design in a collaboration by all three member during the beginning stages of the project. The initial idea was Derek’s and Jan and Vince contributed changes to improve upon this design.

While developing the visual content the task was split in between pages, with Jan completing Profile, Vince completing BlogCreate and PostCreate and PostEdit functionality within PostCreate. Derek completed Home, Error, BlogEdit, PostEditHistory, SearchBar and SearchResults pages.

Jan contributed throughout the application by improving upon current visual content by implementing features from the BootStrap library while creating the display of the page.

Many of the servlets for the various functionality and the tasks involved in each of the java beans were developed by Derek with contributions by Vince.

The majority of the internationalization code was written by Vince and Jan with a contribution by Derek for the SearchResults page.

Bug fixing was completed by Jan and Derek with contributions by Vince.