

Book Loan System	Group 9
Change Management Report	16.05.2017



HACETTEPE UNIVERSITY

**Computer Engineering
BBM487 Software Engineering Laboratory**

**Library Book Loan System
Change Management Report**

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Book Loan System Configuration/Change Management Report

1. Purpose

This document describes the strategy of dealing with design and implementation issues, decisions, constraints, changes and other aspects of the system.

2. Introduction

The only change in software development is change. From the original concept to the completion stages, up to maintenance updates, a software product is constantly changing. Software change management is the process of choosing which changes will be encouraged, permitted and avoided based on project criteria such as timing and cost. The process determines the origins of changes, identifies critical project decision points, and identifies project roles and responsibilities.

Software configuration management is an important component of software change management. However, SCM is often an add-on process that focuses on capturing important versions of the software for future reference.

3. Our Configuration / Change Management

Change is inevitable at all stages of a software project. We have experienced a process through software change management that determines which changes we should allow and prevent based on project criteria such as timing and cost. In this process, we identified the origins of the changes, identified critical project decision points, and identified project roles and responsibilities.

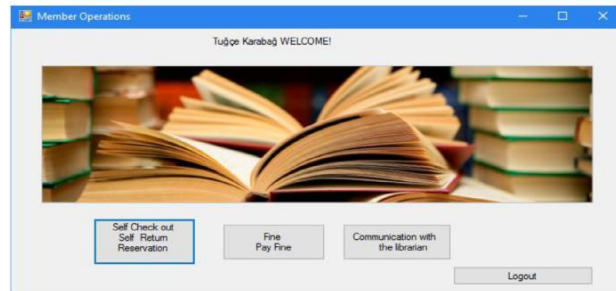
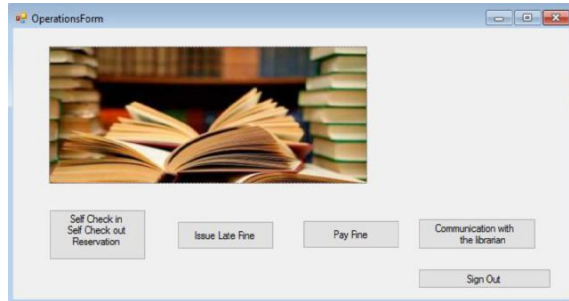
We did not feel the need to update the maintenance from the original concept until the completion stages and did not encounter a possible problem. However, in this process we have made improvements for ease of use, ability to meet software requirements, and a smooth interface.

Using the GitHub project management system, we are keeping track of the changes in the project files and file systems that we are in the process of building. We provided version management.

GitHub maintains project and documentation source code. GitHub improved maintainability of the source code and reduced risk and liability. By providing such things it reduced the cost of processes in general.

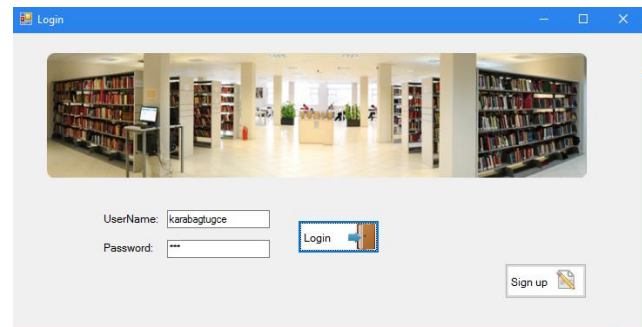
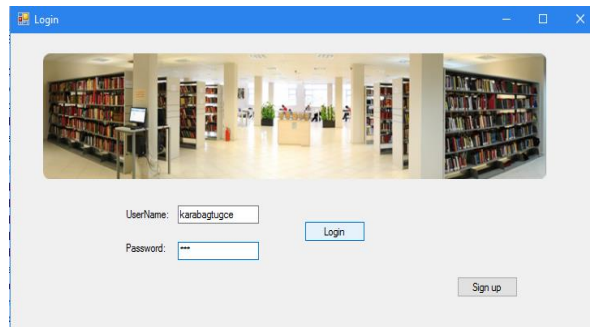
In our project, our software architecture will design the software architecture and the person who will write the code will start coding according to this architecture. After writing the code, we will examine and test the results. If we do not get an error, we decide whether our code standards are appropriate, and if we agree on the architecture, we approve the code. For more code re-usability and modularity, we chose our architecture as MVC, and on this one we were saved from going through huge changes in the architecture.

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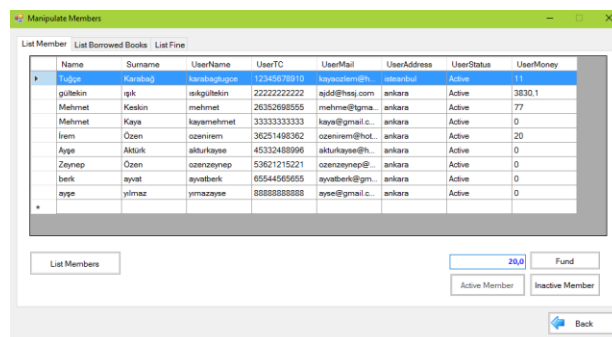


In the previous stage, the interface we created on the left side changed to the right interface, which is better in terms of both usage and design. By removing a button that is not demanded directly, we avoid unnecessary project source consumption and reduce the risk of downstream errors.

As we approached the end of the process, there were more visual changes. Some improvements between the old demo and the new demo. We made changes that appeal to the user more visually.



In these last stages of our project, we changed the way the pay fine works. We brought the fund button feature to the library manipulate member page. And visually we went to the improvements in our interfaces.



In this process we will go for possible problems with software changes;

Later on in this assignment, we can make joints and attachments depending on the user's requirements and the technology of the time. The interface designs we show may change. A more comprehensive and beautiful looking interface can be designed and added. Updates can be made on menus we have created.

As project group, we described the tasks in the first part. There were no changes in the duties of the group members.

Possible change in future;

Maybe if the number of books in our library is too much in the future, we can make a change in the codes we give for books.

4. Configuration

We followed a standard cycle of change in the changes we made in this process:



This document will be helpful and descriptive to us during the development process.