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**Project Name**

Final Project Proposal Document

Prepared by: Andrew Reid

Date Submitted: May 25, 2014

# Document Change Control

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| **Date** | **Authors** | **Summary of Changes** |
| May 25, 2014 | Andrew Reid | Initial proposal created |
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# Document Sign-Off

The following people have reviewed and approved the entire content of this proposal document.

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| **Position** | **Name** | **Signature** | **Date** |
| Instructor |  |  |  |
| Student | Andrew Reid |  | May 25, 2014 |
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# 1.1 Project Team members

Andrew Reid

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# 1.2 Project Description

For this project I will be creating a lifeguard information program. For the last few years I have been working as the Lifeguard Supervisor for the City of Charlottetown. The program I have in mind will be designed for the two pools I run, but may be able to be reused for other facilities. The struts framework will be used alongside file and database storage.

Good to design it so it would be expandable to other pools too. Ie. Store the pools in a database table and have the app read from that table. Then if you add more, they will automatically show up without changing the code.

Currently, shift changes are made with a paper and pen and can be inconsistent. This program would allow for all shift changes to be entered into a database and end the problem of variance between employees’ paper schedules. This program would also digitally store all of the employee’s information. Currently all information is stored in paper files/folders. Because the program is web based, an employee could theoretically access it on any computer and view their schedule.

Employees will be able to view their own schedule, but not modify it. This functionality will be reserved for the administrator.

# 1.3 Primary Functions

* Account creation/modification:
  + Allow accounts to be created and modified by administrator(s)
* Ability to login with a username and password
  + Account will be created by the administrator for the user
* Modify lifeguard schedule
  + This functionality will only be given to the administrator(s)
  + This would likely be the bulk of the project.
* View current schedule
  + Allow all users to see the current lifeguard schedule for the two pools

# 1.4 Secondary Functions

* Allow event bookings for the pool
* Validation to ensure a lifeguard does not exceed the maximum hours before reaching overtime
* View statistics on each lifeguard: View number of hours worked in total over the summer, number of overtime hours worked, and number of private booking hours worked
* Make a publically viewable pool schedule