Software Design Documents

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1. Introduction

This introduction provides an overview of the Software Design Document for Liaison Skill Tracker. It includes the purpose, scope, target audience, and the design approach. The design approach will provide the main component design, some considerations, and screenshots of the system.

Document Scope and Purpose

This document provides a description of the technical design for the Liaison Skill Tracker system. The primary purpose of this document is to describe the technical aspect of this system in detail. It provides an architectural overview of the system. This system will contain a database of skills that are associated with the employees. It will be designed to provide a way for management to track employees experience with certain skills. The skill sets associated with the employees will give management a way to assess a team member based on their experience level with certain programming languages and such. It will also allow the employee to complete "tasks" that will give him the ability to raise a certain skill set according to the specific challenge of that task. There will also be some other functions added to the system such as awards, quests, and leaderboards, so that the employee can see benefit after completing tasks or projects.

Target Audience

This document is targeted to Liaison Employees, specifically managers and employees at Liaison's Carbondale Illinois branch.

Reference Documents

Liaison Skill Tracker Requirements Documentation.

System Environment
Database: MongoDB

Database Management: Monk

Development: Node.JS

Authentication: Passport

Server: To be determined.

**Design Approach**

**Architecture Design**

**UI Design**

**Skill List**

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**Add User**
### Add User

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- **Add User**
Update User

Username: gupta
Password: ****
Permissions: Mapping Manager

Display Name: Dr. Gupta
Email: alex@gmil.com
Team: Mapping

ADX: 0 1 2 3 4 5
Athena: 0 1 2 3 4 5
Delta: 0 1 2 3 4 5
FF Proc: 0 1 2 3 4 5
JavaScript: 0 1 2 3 4 5
JIRA: 0 1 2 3 4 5
SOI: 0 1 2 3 4 5
VAN: 0 1 2 3 4 5
XML: 0 1 2 3 4 5

Alloy: 0 1 2 3 4 5
Contivo: 0 1 2 3 4 5
DXP: 0 1 2 3 4 5
G2: 0 1 2 3 4 5
JDBC Adapter: 0 1 2 3 4 5
REGEX: 0 1 2 3 4 5
SQL: 0 1 2 3 4 5
Webspan: 0 1 2 3 4 5
XSLT: 0 1 2 3 4 5

Update User  Delete User

Login
User Profiles
2. Modules

Main Skill List

The main skill list will retrieve and show all of the employees skills. This will be for admins only. Obviously it would not be wise to let every employee see the skills of all other employees. There will be 3 main skill list, divided up by department. One for Mapping, one for Integration, and one for Support.

Employee Profile

Each employee will have an employee profile. This will display the employees skills for the employees and admins eyes. There will be another view of the profile that will include less sensitive information, that any employee can view. The first view or the "confidential" view will display the employees technical skills, along with basic non pertinent information, for example the number of task completed by a individual, profile picture, etcetera. The second view or the open view will only display the non-confidential information.
**Search**

**Basic Search**

The basic search will be a simple search by name. The user will enter the desired username into the search box, and matching information from the database will be retrieved.

**Advanced Search**

The advanced search will cover individual skills. Admins will be able to search by skills, for example if they want to view all employees with a certain skill they will be able to. Or, all employees that have a kill level within a specified range. They should be able to show all employees with a skill level above 5 in Java for example.

**Security**

We will be using Passport as our authentication. It is crucial that employees do not have access to the main skill list, and that only admins/employers have access to the list of all of their employee's skills.
4. Diagrams

Activity
Entity

Class

5. Sequence Diagrams

Login
Logout

Add User
Show Main Skill List

User Profile View
6. References

Gliffy UML Creator - https://www.gliffy.com/uses/uml-software/