



Skill Tracker

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System Requirements Specification Document v 1.0

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1. Introduction

1.1 Scope:

The main scope of this application is keeping track of skill of individual full stack Engineers. To use the single page application (skill tracker) to keep track of employee skills. The skill Tracker should be the single page application (SPA). Using the internal portal an HR will be able to perform following operations.

- Search by associate name
- Search by associate ID
- Search by associate Email ID
- Search by associate Mobile Number
- Search by associate Skills
- Search by Country
- Add new associate

The HR will be able to add new associate and its respective Full Stack Development Skills.

The associate which is searched can be updated, deleted and viewed.

1.2 Management Summary:

John Dempsey works in an IT company. He is a new age HR Academic Manager. Few of his responsibilities includes:

1. Search associate: John will be able to search associate with following criteria
 - Search by associate name
 - Search by associate ID
 - Search by associate Email ID
 - Search by associate Mobile Number
 - Search by associate Skills
 - Search by Country

2. Add new Associate

The HR will be able to add new associate and its respective Full Stack Development Skills.

3. Edit, Delete & View Associate

The associate which is searched can be updated, deleted and viewed.

4. Add skills

It will allow the john to add new skills so that it can be used in “add new Associate “page.

1.3 Definitions:

- Spring Boot: For developing Microservices(Middleware)
- My SQL: For developing database for storing all data(Back end)
- Angular: For developing functional Web pages(Front end)
- Bootstrap: For designing user interface

1.4 Overview:

This Document will describe all the main requirements that will require to develop this application. Specifically it will outline the type of database used, technology used for front end, back end and user interface. It also outlines the infrastructure and working of application.

2. System Objectives

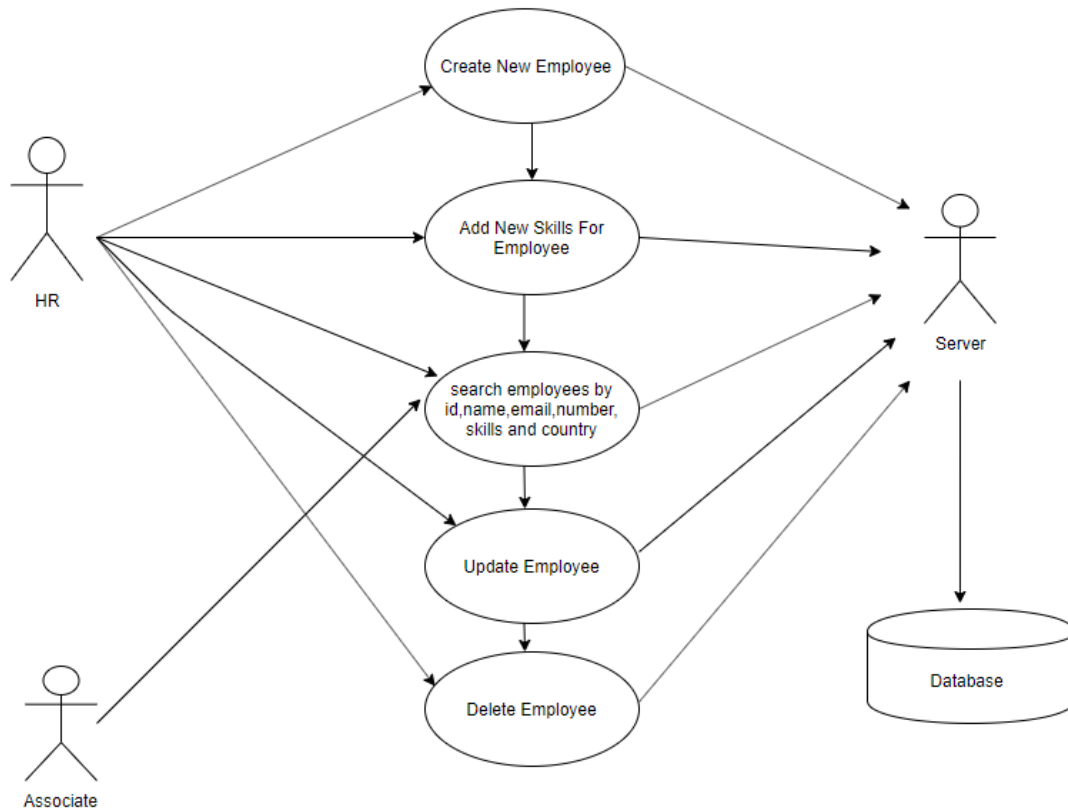


Figure 1 System Context Diagram

The diagram above explains the main conceptual elements in the solution and its relationships with the architecture. The Skill Tracker application is responsible for adding and maintaining skills of employees.

Employee's skills along with its sub skills and its certifications can be added and updated. This provides an option of searching the employee based on their id, name, email, mobile number and also by their skills.

Employee	Employee can search the employee by their id, name, email, mobile number, country and skills.
HR	HR can add a new employee, update an existing employee, delete an employee, search as well.
Database	My SQL database is used to store all associate Data
Server	It is a interconnection between the client and database and provide response to the client.

3. Functional Requirements

3.1 Brief Description

An HR add the new associate, search employees, delete employees, update employees, provides rating to the skills with the help of server and database. An employee can able to view other employees and update their own skills.

3.2 Interface Details

See the use case diagram between employee and HR.

3.3 Table of requirement

Flow	<p>The Skill Tracker is a single page application which keeps Track of Employee activities.</p> <p>The Skill Tracker will allow Users to search and view details of Employees</p> <p>The Skill Tracker will also provide an interface to user to signup either as a HR or an associate.</p> <p>After Signing in the Employee can search the employee by their id, name, email, mobile number, country and skills.</p> <p>The HR can add a new employee, update an existing employee, delete an employee, search as well.</p>
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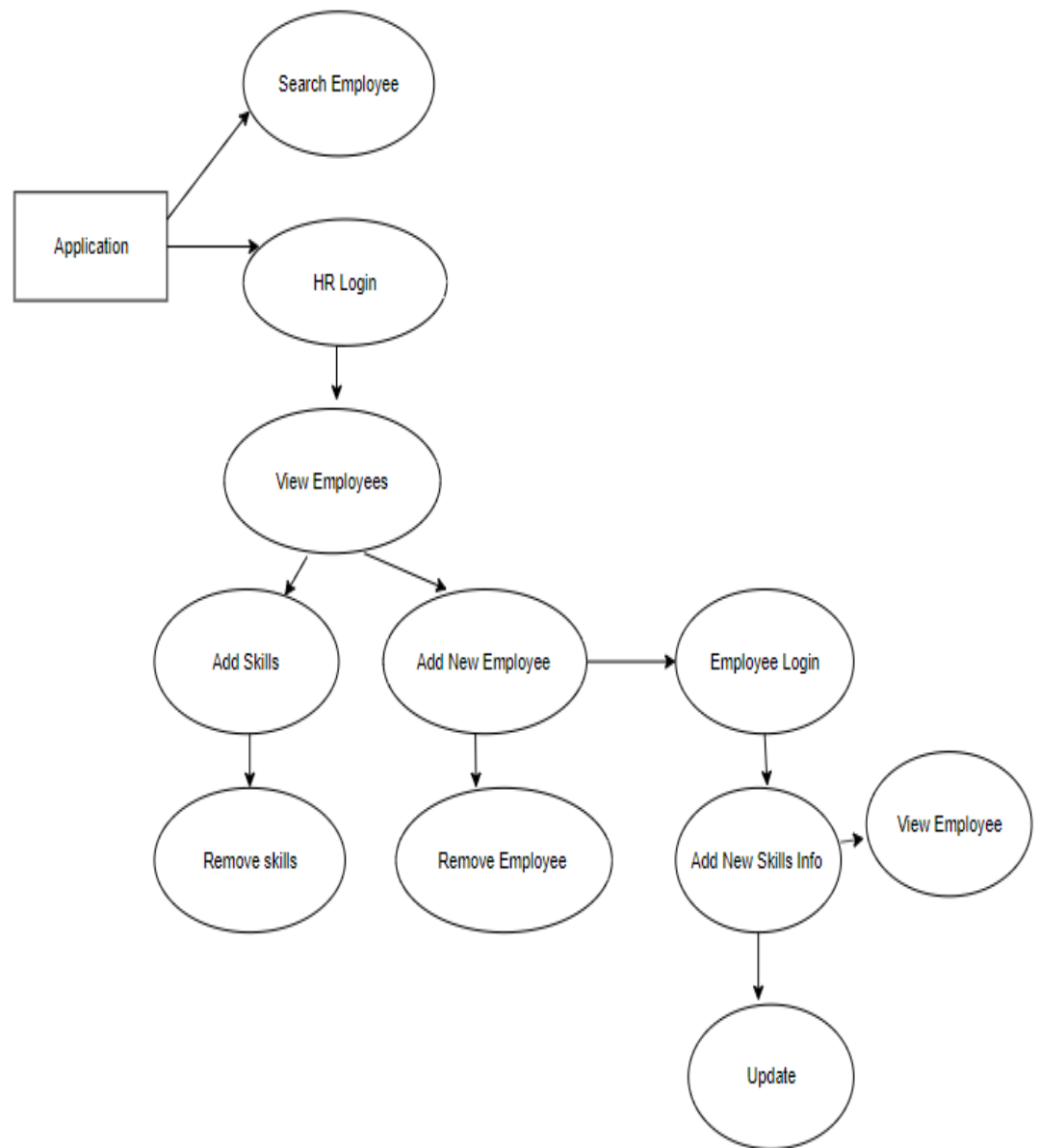


Figure 2 Application Flow Diagram

4. Database Schema:

There is a total of 4 table which the Skill Tracker use to save and display data. One table is for saving the HR detail who are registering for the first time on the Skill Tracker website. Rest 3 table have the data associate, associate skills and skills information

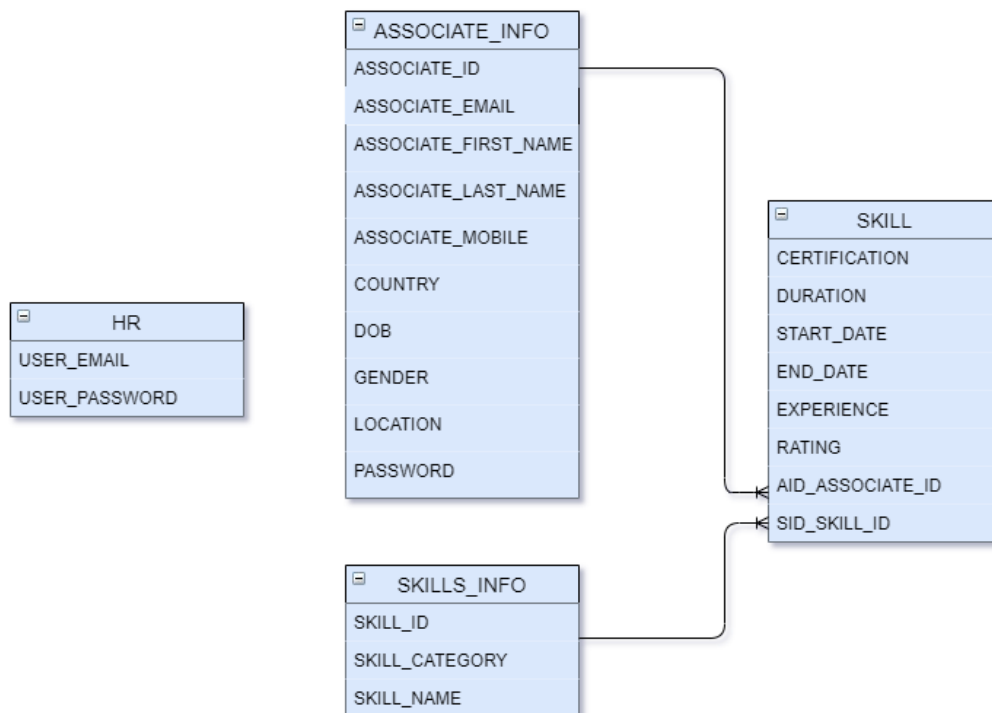


Figure 3 Database Schema