**Software Requirements for HR Query**

**Definitions, Acronyms, and Abbreviations**

* Company: a fictitious multinational company divided into multiple departments with a number of employees working in various position types
* Department: a loosely organized division or section of the company
* Location: a city inside or outside the USA where the company has an office; multiple departments may have an office in the same city
* Position Type: a general categorization of employees – examples include “Executive,” “Clerical,” “Finance,” etc.; not every position type will be represented at each location
* Employee Profile: a user-friendly display of employee information, including name, department, location, position type, and position information

**Overall Description**

The software implements a web-based mobile view of an HR staffing application used to query employee profile information based on department, location, and position type inputs.

**Functional Requirements**

**User Requirements**

* The user **shall** be able to select from a list of **departments** within the company.
* The user **shall** be able to select a **location** based upon the department selected.
* The user **shall** be able to select from a list of actively represented **position types** based upon the location and the department selected.
* Upon submitting the data, the user **shall** be able to view a list of employee profiles based upon the criteria provided.
* Upon viewing the list of employee profiles, the user **shall** be able to select a profile and view the employee information.

**System Requirements**

* The system **shall** be comprised of three views:

1. User input
   * In the user input view, the system **shall** provide a dropdown list of available departments within the company.
   * In the user input view, the system **shall** populate a dropdown list of available locations based on the department selected with information from the SQL database.
   * In the user input view, the system **shall** populate a dropdown list of available position types based on the department and location selected with information from the SQL database.
2. Employee profile list
   * To create the employee profile list view, the system **shall** dynamically generate an html table of employee profile hyperlinks based upon the user’s input.
3. Selected profile
   * To create the selected profile view, the system **shall** populate the fields within the selected employee profile with information from the SQL database.

**Non-Functional Requirements**

* The system **shall** operate based upon a **client/server** model – the client, which will be represented by the user’s mobile device, will access the server via a web form written with the .Net Framework
* The client **shall** run on a **different operating system** than the server – the client shall run in the operating system of the mobile device, while the server shall run in Windows 7
* The client-side code **shall** be written in a **different programming language** than the server-side code
* To facilitate the above non-functional requirement, the system **shall** be written using a **Model-View-Controller software architecture**, wherein the server will be written using .Net Framework languages, such as C#, Razor, and Linq, while the client will be written using html and javascript
* The system **shall** access a **SQL database**, containing several different tables which will hold company and employee data.