

## **Computech Corporation: Enhanced Job & Candidate Application**

**Team Members:** Simul Kadakia, Gagandeep Singh, Wesley Trescott

### **Project Overview:**

Computech Corporation has an existing Recruiting Management System called Pinpoint which is used by their recruiting team and management. However, Computech lacks an attractive job search and application site. This project will create a new web application which will interact with the existing Pinpoint application for job searches. The targeted audience is Wayne State University students interested in internships and IT positions at Computech.

### **Project Purpose, Scope and Objectives:**

The goal of this project is to create a web application where Wayne State students can search for jobs based on their skill sets.

Users can log into a secure portal where they can access their saved data such as email address, contact information, and experience. They can filter job searches based on specific criteria, such as location and industry, which will narrow the search results of the available jobs. Students can apply to the jobs that they are interested in. To apply, users can either manually enter their data or populate the fields from saved data previously entered in their user profile.

The web application is not specific to a particular device and needs to be compatible with smartphones, tablets, and desktop environments.

### **Team Organization:**

The team will collaborate on both unit and system testing, as well as documentation and presentations, and also work together to ensure project deadlines are met. However, the ultimate break-up of responsibility is:

- Simul Kadakia – Team Lead
  - The team lead will coordinate communication with the client and ensure work is assigned and completed by the agreed upon deadlines. Additionally, he will complete work on the database and its backend connection to the application
- Gagandeep Singh—Controller and Model modules of MVC.
  - This role entails implementing the core logic of the application that interacts with and ties together the backend (SQL Database) and the frontend UI.
- Wesley Trescott—Application View and Frontend
  - This role entails programming the user interface of the application

### **Problem Resolution Policies:**

The team will implement collaborative problem solving techniques. If a technical problem arises in the project, the team will:

- Define and isolate the problem
- Identify alternative methods to resolve the problem
- Select the best alternative to resolve the problem
- Plan the implementation and verify if the problem has been resolved.

In case a team member doesn't produce work before the deadline set by the team lead, or if the team member fails to attend a meeting (unless there is a valid reason to miss the meeting), the team lead will contact the responsible team member about the issue and notify the instructor and assigned TA about the situation. Other team members will then complete the missing work as well as possible in the remaining timeframe. Also, there will be no foreseeable disagreements on technology choice, as this decision has already been decided by the client.

### **Project Plan (iterations, project schedule):**

The project will be implemented in three phases:

Phase 1, Due 2/27/2015:

- Create database design
- Design the layout of website pages
- Implement basic functionality of website and connect to database
- Implement testing of prototype web application

→First prototype application delivered to client

Phase 2, Due 3/24/2015:

- Implement filtering functions to filter job search results
- Implement data retrieval techniques to retrieve results based on user input
- Implement testing of filtering, data retrieval, and system functionality

→Second prototype application delivered to client

Phase 3 (Final Phase), Due 4/9/2015:

- All features implemented successfully
- Rigorous functional and non-functional testing of application
- Web application deployed on Computech Server

There will also be a client meeting every Tuesday at 4 P.M. Additionally, our group plans to meet to discuss project progress before the client meeting each week and after class on Tuesdays/Thursday if needed.

### **Configuration management plan:**

Based on the meeting with the client, we will be using GitHub to maintain the code. We will have one branch but each member will be working on assigned parts which will not conflict with other's code.

**Technologies:**

Technologies were pre-determined by the client. These are:

- Microsoft ASP .NET 4.5 (MVC, Entity Framework, LINQ)
  - Framework to be used to create the web application with database connectivity.
- Microsoft SQL Server
  - Database management system to hold user login, candidate information and job details data.
- Visual Studio
  - Integrated development environment to code the application.
- C#, JavaScript (jQuery), CSS, HTML (Razor)
  - Languages used in the application controller and frontend.