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# Software Requirements Specification for Career Bound

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Established and Designed for James Helfrich

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# 1.Introduction

## 1.1.Application Purpose

- 1.1.1.The purpose of this application will be to connect **companies** seeking to fill current or potential jobs with **students** who are seeking employment. This will be **employer** to **student** connection that will be amicable to both parties.

## 1.2.Application Scope

- 1.2.1.The scope of this application will be an **employer** to **student** connection. There is no promise of employment or fulfillment of employment guaranteed by this application. There will be a web and mobile interface that share the same features and characteristics with each other. This application will be limited in use for **students** and **employers**.

## 1.3.Stakeholders

- 1.3.1.**Companies** seeking to fill current or potential **job postings**.
- 1.3.2.**Students** who are seeking employment or **internships**.

# 2.Specifications for Companies

## 2.1.Company Profile Page

- 2.1.1.The **system** shall allow a **company representative** to **follow** one or more **student users**. (Data 2.3.2, 2.3.5)

- 2.1.2. A **company profile page** shall have a **form** to fill out where a **student user** can express interest in a job and list qualifications. (Data 2.3.9)

### 2.1.3. Profile Page Data

- 2.1.3.1. A **company profile page** shall list **company data**. (Data 2.2.1, 2.2.2, 2.2.3, 2.2.4)
- 2.1.3.2. The **company name** field shall accommodate any **company name**. (Data 2.2.1, 2.2.2, 2.2.3, 2.2.4)
- 2.1.3.3. A **company representative** shall be able to add, alter, and remove items from the **company location** list. (Data 2.2.1, 2.2.2, 2.2.3, 2.2.4)
- 2.1.3.4. The **company locations** can be zero or more locations where business is conducted. (Data 2.2.1, 2.2.2, 2.2.3, 2.2.4)
- 2.1.3.5. Each **company location** shall allow for an optional physical address for each location. (Data 2.2.1, 2.2.2, 2.2.3, 2.2.4)
- 2.1.3.6. The **student users** shall have access to view the **company locations**. (Data 2.2.1, 2.2.2, 2.2.3, 2.2.4)
- 2.1.3.7. The physical address of each **company location** shall allow for the street address, suite/building number, city, state, country and zip code. (Data 2.2.1, 2.2.2, 2.2.3, 2.2.4)

- 2.1.3.8. The street address and suite/building number lines shall accommodate text of any length that describes the physical location of the **company**. (Data 2.2.1, 2.2.2, 2.2.3, 2.2.4)
- 2.1.3.9. The city, state, and zip code shall be formatted according to United States Postal Service (USPS) standards and use the USPS primary listing. (USPS Primary Listing is the official mailing address city name for every address in the USA. No abbreviations or sub-sections within cities are allowed.) (Data 2.2.1, 2.2.2, 2.2.3, 2.2.4)
- 2.1.3.10. A **company representative** shall be able to add, alter, and remove any information on the **company profile page**. (Data 2.2.1, 2.2.2, 2.2.3, 2.2.4)

## 3.

### 3.1. Notifications

- 3.1.1. **Notifications** and **messages** shall consist of **notification data**. (Data 2.2.2)
- 3.1.2. A **company representative** shall be able to send a **notification push** to all **student user followers**. (Data 2.2.2)
- 3.1.3. A **company representative** shall receive a **notification** when a **message** has been sent to them by another **user**. (Data 2.2.1)
- 3.1.4. There shall be a **notification push** that informs the **company representative** of new updates to **student user profiles** that the **company profile page** is **following**. (Data 1.3.14)
- 3.1.5. The **company representative** shall receive a **notification** when a **resume** uploaded by a **student user** has at least 50% of items in one of the **company's required skills** sets for a **job posting**. (Data 2.32.54, 2.3.6)

### 3.2. Search Features

- 3.2.1. The **company profile page** shall allow a **company representative** to pull from a collection of all **student users** through a **company candidate search**. (Data 2.3.1)
- 3.2.2. The **company candidate search** shall have optional **filters** to select subsets from the **student user** collection. (Data 2.3.1)
- 3.2.3. **Company candidate search filters** will select **student users** to display based on the criteria that are listed by a **student user** on their **student profile page** or **resume**. (Data 2.3.1, 2.1.2)
- 3.2.4. The **company candidate search** shall prompt a **company representative** to input **company candidate search filters**. (Data 2.2.4)
- 3.2.5. **Resumes** matching the **company representative's** entered **company candidate search filters** shall be displayed within 3 seconds of **search** request submission. (Data 2.2.4)
- 3.2.6. The **search** bar shall have an **autocomplete** function based on an autofill API. (2.3.12)
- 3.2.7. The **search** shall include the option to use **wildcard searches**. (Data 2.3.4)
- 3.2.8. The **search** shall include an advanced **search** option that will allow a **company representative** to **search** based on **filters**. (Data 2.3.12, 2.3.1)

### 3.3. News Feed

- 3.3.1. A **company representative** shall have the ability to create a **post** with **company** projects and news. (Data 2.3.1)
- 3.3.2. **Company posts** shall be visible on the **company profile page**. (Data 2.3.5, 2.3.6, 2.3.7, 2.3.9, 2.3.10, 2.3.11, 2.3.12)
- 3.3.3. A **company representative** may add, alter, or remove **company posts**. (Data 2.3.1)
- 3.3.4. The **company's news feed** shall display **posts** of **student users** that a **company profile page** is **following**. (Data 2.4.7)
- 3.3.5. The **company's news feed** shall show individual **university statistics**. (Data 2.4.7)
- 3.3.6. The **news feed** shall allow a **company representative** to make a **company post** that link back to a **company's social media**. (Data 1.1.1)

### 3.4. Job Postings

- 3.4.1. A **company representative** shall be able to add, alter or remove a **job posting**. (Data 1.3.4, 1.3.5)
- 3.4.2. A **Job posting** may include a list of **required skills**. (Data 1.3.3, 1.3.5)
- 3.4.3. A **company representative** may post **required skills** for their **job posting**. (Data 1.3.3, 1.3.5)
- 3.4.4. A **company representative** may add, alter, or remove elements from **required skills**. (Data 1.3.3, 1.3.5)
- 3.4.5. The **required skills list** shall accommodate any text length. (Data 1.3.3, 1.3.5)
- 3.4.6. A **company representative** may view all **resume form submissions**. (Data 2.3.2)
- 3.4.7. A **company representative** may have a **free-form text area** to add any additional information about the job. (Data 2.3.3)
- 3.4.8. A **company representative** may sort candidates using **filters**. (Data 2.3.3)
- 3.4.9. A **job posting** shall consist of **job posting data**. (Data 2.3.3)

## 4. Specifications for End User

### 4.1. Student User Profile

- 4.1.1. A **student profile** shall contain a section for **accolades**. (Data 2.3.2, 2.3.5)
- 4.1.2. A **student user** may add, alter or remove information from their **profile**. (Data 1.3.2, 1.3.5, 1.3.8, 1.3.9)

#### 4.1.3. Student profile pages

- 4.1.3.1. A **student profile page** shall consist of **contact information**, **resume**, **portfolio**, **GPA**, and **skills**. (Data 1.3.2, 1.3.5, 1.3.8, 1.3.9, 2.3.2)
- 4.1.3.2. The **student user** may submit a **resume form**. (Data 2.3.2, 1.3.14)
- 4.1.3.3. The **resume form** shall be accessible to the **student user** for modification via a hyperlink located on the **student profile**. (Data 1.3.14)
- 4.1.3.4. A **company representative** shall be able to view a **student user's resume form** via a hyperlink located on the **student profile page**. (Data 2.1.9)



## 4.2. Notifications

- 4.2.1. There shall be a **notification push** sent to the **student user** instantly after a **notification trigger**. (Data 1.3.9)
- 4.2.2. The **student user** shall receive a **notification** when a **company** they are **following** makes a **post** or sends out a **notification** to its **followers**. (Data 2.2.2, 1.3.15)
- 4.2.3. The **student user** shall receive a **notification** when a **company** sends them a personal **message**. (Data 2.2.1)
- 4.2.4. **Notifications** may be pushed to a **student user's** phone outside of the **system** (Data 1.3.10, 1.3.15)
- 4.2.5. **Student users** may receive a **notification** when a **company representative** views his/her **profile**. (Data 1.3.12)
- 4.2.6. All **users** may choose to **mute notifications** (Data 1.3.10)
- 4.2.7. There shall be **settings** allowing the **student user** to add, alter and remove **filters** for **notifications**. (Data 1.3.9, 1.3.9, 1.3.12)

## 4.3. Search Features

- 4.3.1. There shall be a **search** feature available to the **student user** to **search** for **job postings** and **company profile pages**. (Data 2.2.3)
- 4.3.2. **Search results** shall be displayed within 3 seconds of the **search** request submission. (Data 2.2.3)
- 4.3.3. The **search** feature shall display jobs matching the **student user's** selected **filters**. (Data 1.3.1, 1.3.3, 1.3.4, 1.3.5)
- 4.3.4. The **student user** shall be able to **filter search results** based on **company search parameters**. (Data 1.3.1, 1.3.3, 1.3.4, 1.3.5, 1.3.6)

## 4.4. News Feed

- 4.4.1. The **system** shall include a **news feed** that displays **job postings** from the **company** the **student user** is **following**. (Data 1.3.4, 1.3.1)
- 4.4.2. **Student users** may create a new **post**. (Data 2.4.4)

## 4.5. Resume

- 4.5.1. **Resume data** shall be stored in a list of **resumes** with a **user tag** (Data 1.3.8.)
- 4.5.2. There shall be **text fields** which will hold **user resume data** (Data 1.3.18, 1.3.20)
- 4.5.3. **Company candidate search** shall have access to **resume data**. (Data 2.3.1, 2.1.2)
- 4.5.4. User input fields
  - 4.5.4.1. The **system** shall provide **text fields** for **student users** to type information into their **resume**. (Data 1.3.20)
  - 4.5.4.2. Each **text field** within the **resume form** shall include a **help feature**. (Data 1.3.20)
- 4.5.5. Input submission
  - 4.5.5.1. The **user** shall be able to submit their **resume form**. (Data 1.3.20)
  - 4.5.5.2. A **resume form** shall only be submitted if all **mandatory fields** are completed. (Data 1.3.20)

4.5.5.3. If the **user** attempts to submit the **resume form** without all **mandatory fields** completed, they shall be prompted to complete all **mandatory fields**. (Data 1.3.20)

5.

## 6. Hardware requirements

- 6.1. The **site** should load within **standard page loading time**. (Data 1.1.4, 3.1)
- 6.2. The **system** shall support **modern web browsers**. (Data 3.1)
- 6.3. The **system** shall support web browsers accessed on both mobile devices and computers. (Data 3.4)
- 6.4. Supported web browsers shall include Google Chrome, Mozilla Firefox, and Apple Safari. (Data 3.4)

# Glossary

<b>Accolades</b>	A list of awards
<b>Attachment</b>	An extra part or extension that is or can be attached to something to perform a function, usually consisting of a file
<b>Autocomplete</b>	A function that anticipates a <b>user's</b> input by offering several potential options based on the <b>user's</b> input
<b>Certification</b>	An official document providing a certain level of achievement
<b>Certification Form</b>	A <b>form</b> for the user to input currently held <b>certifications</b>
<b>Company</b>	An organization consisting of employees seeking to hire additional employees
<b>Company Candidate Search</b>	A feature allowing <b>companies</b> to search <b>student users</b> based on desired <b>company candidate search filters</b>
<b>Company Candidate Search Filters</b>	<b>Filters</b> including <b>GPA, project experience, skills</b> and location
<b>Company Data</b>	Information about the company including <b>company name, company location, mission statement, social media, and company URL</b>
<b>Company Location</b>	Place where business or production is conducted
<b>Company Name</b>	The name that represents the <b>company</b>
<b>Company Profile Page</b>	A <b>page</b> with the collection of information associated with a given <b>company</b> which can contain <b>company's data</b>
<b>Company Representative</b>	An authorized <b>user</b> that manages a <b>company profile page</b>
<b>Company Search Parameters</b>	searchable company <b>tags</b> such as: <b>company locations, company name, job titles, pay scale, GPA requirements, skill requirements, full time employment, internships, internship dates/seasons</b>
<b>Company URL</b>	A <b>URL</b> associated with a <b>company</b>
<b>Contact Information</b>	An individual's private or personal information by which another person, business, or entity can use to reach the individual, includes email, phone number, current address
<b>Data</b>	A collection of text, pictures, or documents
<b>Degree information</b>	Information pertaining to a <b>user's</b> specific degree, including what type of degree, <b>GPA</b> , and expected graduation date
<b>Education Experience</b>	Any experience that a person gains while attending a collegiate or trade school
<b>Education Form</b>	A <b>form</b> for the user to input past and current <b>education experience</b> information

<b>Employer</b>	A person or organization that employs people; a recruiter, CEO, who can make a <b>company profile page</b>
<b>Filter</b>	Criteria applied to <b>search results</b> which reduce the number of returned <b>results</b> based on the same criteria
<b>Follow</b>	When one <b>user</b> subscribes to the <b>posts</b> of another, allowing for <b>notifications</b> to be sent to the <b>user</b> , and <b>posts</b> to be displayed on the <b>user's news feed</b> .
<b>Form</b>	A hypertext document with blank input fields for information to be inserted
<b>Free-Form Text Area</b>	A text-box in an entry <b>form</b> , where the user can type several lines of text, possibly even line breaks, tabs, etc.
<b>Full Time</b>	A non-student position that does not have a set duration limit
<b>GPA</b>	Stands for Grade Point Average. GPAs are determined by a combination of course credits, individual grades and semester hours spent in the class
<b>GPA requirements</b>	Minimum <b>GPA</b> desired for employment
<b>Graduation Rate</b>	The percentage of students completing their undergraduate degree within 150% of the time for the program
<b>Help Feature</b>	Information available to the <b>user</b> to help indicate what should be entered into a <b>text field</b>
<b>Internship</b>	A temporary position for a <b>student</b> employee to work within a <b>company</b> to gain experience and training
<b>Internship dates/seasons</b>	Yearly times when hiring occurs
<b>Job Experience Form</b>	A <b>form</b> for the user to input past and current <b>job experience</b> information
<b>Job Experience</b>	Any experience that a person gains while working in a field or occupation
<b>Job Posting</b>	A <b>post</b> consisting of <b>job posting data</b> made by an <b>employer</b> about a job that needs to be filled. Viewable in the <b>news feed</b> of <b>student users</b>
<b>Job Posting Data</b>	Information included in the <b>job posting</b> , namely: <b>company name</b> , job title, <b>required skills</b> , job description, hours, position type, compensation, location, contact information and links to apply for the job
<b>Mandatory Field</b>	A text field which requires <b>user</b> input before submission is possible
<b>Message</b>	A message is a discrete unit of communication intended by the source for consumption by some recipient or group of recipients
<b>Miscellaneous Form</b>	A <b>form</b> for the user to input all information that is not included in any other form.

<b>Mission Statement</b>	A statement of objectives or goals defined by a <b>company</b> or an individual
<b>Modern Web Browser</b>	A web browser that supports HTML5, CSS3 and ES6
<b>Mute</b>	To turn off or cease to receive <b>notifications</b>
<b>National Ranking</b>	A university's overall ranking compared to all other universities in that nation based on a variety of factors
<b>News Feed</b>	A vertically scrollable window which will contain a collection of relevant pieces of information or news about students, universities, and employers
<b>Notification</b>	A message sent to a device, visually displaying a specified event to the <b>user</b> . Contains <b>notification data</b> .
<b>Notification Data</b>	Containing a <b>picture</b> , text, or other <b>attachments</b>
<b>Notification Push</b>	The delivery of information from a software application to a computing device without a specific request from the client
<b>Notification Trigger</b>	To initiate, actuate, or set off a <b>notification</b>
<b>Page</b>	A hypertext document connected to the <b>system</b>
<b>Pay Scale</b>	Amount of compensation for services rendered
<b>Picture</b>	A formatted image embedded within a body of text according to size and format
<b>Portfolio</b>	A collection of a <b>user's</b> work (such as programs, projects, etc.) compiled over a period of time and used for exhibiting <b>user's</b> talents, abilities, or progress
<b>Post</b>	Text, image, or other item of content published on a <b>social media profile</b>
<b>Profile</b>	A visual display of personal <b>data</b> associated with a <b>user</b>
<b>Project</b>	A piece of planned work or activity that is intended to achieve a particular goal
<b>Project Experience</b>	Any experience a person gains by working on <b>projects</b> related to the industry in which they are seeking for a job.
<b>Project Form</b>	A <b>form</b> for the user to input past and current student <b>projects</b> that they have worked on
<b>Required Skills</b>	<b>Skills</b> the employer is looking for candidates to have
<b>Required Skills List</b>	A text box located on a <b>job posting</b> that contains <b>required skills</b> desired by the <b>company</b>
<b>Results</b>	Items returned from a <b>search</b>
<b>Resume</b>	A plain text document that provides an <b>employer</b> with a <b>student user's</b> information
<b>Resume Data</b>	Information about the user consisting of <b>contact information</b> , <b>user work experience</b> , <b>degree information</b> , and skills

<b>Resume Form</b>	Includes a <b>Job Experience Form</b> , a <b>Skills Form</b> , a <b>Volunteer Experience Form</b> , a <b>Project Form</b> , an <b>Education Form</b> , a <b>Certification Form</b> , and a <b>Miscellaneous Form</b>
<b>Resume Form Submission</b>	When the <b>followers</b> of the <b>student user</b> are given permission to view the <b>student user's resume form</b>
<b>Search</b>	The process of identifying and displaying a desired <b>result</b> by applying <b>filters</b> to all the <b>system's data</b>
<b>Search Bar</b>	A text input field specifically used to <b>search</b>
<b>Settings</b>	A collection of controls that enables the <b>user</b> to configure the appearance or actions of the <b>system</b>
<b>Site</b>	A location connected to the Internet that maintains one or more <b>pages</b> on the World Wide Web
<b>Skill Requirements</b>	Desired attributes and strengths for employment
<b>Skills Form</b>	A <b>form</b> for the user to input <b>soft skills</b> or <b>required skills</b>
<b>Social Media</b>	An online platform in which a <b>user</b> can communicate with other <b>users</b> on a large-scale basis
<b>Soft Skills</b>	Skills and traits that enable effective and harmonious interpersonal communication
<b>Standard Page Loading Time</b>	The <b>page</b> shall load in under 3 seconds
<b>Student</b>	A person who is studying at a school or college
<b>Student Account</b>	A collection of <b>data</b> associated with a <b>student</b> of a <b>social media system</b> , comprised of a username, password and a <b>student profile</b>
<b>Student Profile</b>	A collection of <b>settings</b> and data associated with a student which can contain personal data
<b>Student Profile Page</b>	A visual display of a <b>student's data</b> associated with a specific <b>student</b> referring to the explicit digital representation of the <b>student's</b> identity
<b>Student User</b>	A <b>user</b> that manages a <b>student profile page</b>
<b>Student User Followers</b>	<b>Students</b> that <b>follow</b> a <b>company</b>
<b>System</b>	Collection of software including the web servers, backend databases, mobile applications and web applications
<b>Tag</b>	A tag is a one-to-three-word long <b>keyword</b> that summarizes the outcomes of a <b>resume</b> , <b>portfolio</b> , comment, endorsement or other item on a <b>user's profile</b>
<b>Text Field</b>	A location where the <b>user</b> can input text on the interface
<b>University Statistics</b>	National ranking, overall student <b>GPA</b> and graduation rates

<b>URL</b>	Acronym for <b>Uniform Resource Locator</b> . This is a reference to a specific location of web resources on a computer network
<b>User</b>	Individual or group that uses a <b>system</b>
<b>Volunteer Experience Form</b>	A <b>form</b> for the user to input past and current <b>volunteer experience</b> information
<b>Volunteer Experience</b>	Any experience that a person gains while volunteering in a field or occupation
<b>Web Server</b>	Program that uses the Hypertext Transfer Protocol to serve files that make up web <b>pages</b>
<b>Wildcard Searches</b>	A <b>search</b> based on matching character patterns
<b>Work Experience</b>	Contains information about the <b>user's</b> current and/or past jobs, includes the following information, company name, employers name, employers phone number, and a short description detailing what the job entailed

# Document grade

Grade for the document will be derived from the following rubric:

	Exceptional 100%	Good 90%	Acceptable 70%	Developing 50%	Missing 0%
<i>Requirement Statements</i> 30%	Every single requirement in the SRS meets all the criteria specified in the Wiegers article	One requirement fails to meet one of the criteria specified in the Wiegers article	There exists a systematic problem with some of the requirements	The requirements exhibit <i>glaring</i> problems	The requirements are not sufficient quality to move on to the SDD
<i>SRS - Completeness</i> 10%	Every single stakeholder need is identified and described	The requirement list is completely consistent with the collected elicitation data	An item was described in the elicitation data that is not represented in the requirements list	The SRS exhibits <i>glaring</i> completeness problems	The SRS is not of sufficient quality to move on to the SDD
<i>SRS - Consistent</i> 30%	The document is completely consistent with itself	There are no contradictions in the requirements but "some" ambiguity exists	"Minor" inconsistencies exist or there exists "substantial" ambiguity	A "substantial" inconsistency exists or large parts of the SRS suffers from ambiguity	Consistency problems are so bad that it seems as if more than one project is being described
<i>SRS - Traceability</i> 10%	Every single concept and term is well defined, all the requirements can be traced to elicitation data	All the requirements can be traced to elicitation data	An important term or concept is not well defined	There exists <i>serious</i> traceability issues with the SRS	The SRS is not of sufficient quality to move on to the SDD
<i>Professionalism</i> 20%	The paper is easy to read and ideas are clearly communicated	Everything is properly organized, the formatting is professional, no grammar or spelling errors, writing style is "professional"	One instance of a spelling error, grammar error, formatting errors, or poor writing	There are <i>glaring</i> problems with the document itself	Gross spelling/grammar errors or other aspects of the writing that make the paper difficult to read



94.5%