

Team 2

PeopleSpace, Irvine

7/19/2022 ~ 08/11/2022

Software Requirements Specification (SRS)

1. Introduction

1-1. Purpose

Our programs are designed to reduce the hardships of employers and HR managers. It will save you from trouble of reviewing the resumes of countless applicants. Our program recommends the best candidates by analyzing resumes and job descriptions through the nlp model. The more applicants and the more resumes, the better our program will shine.

1-2. Product Scope

NLP model, Wordpress Website (<http://13.57.41.74>)

1-3. References

<https://spacy.io/api/doc>

<https://doccano.github.io/doccano/>

<https://www.perforce.com/blog/alm/how-write-software-requirements-specification-srs-document>

2. Overall Descriptions

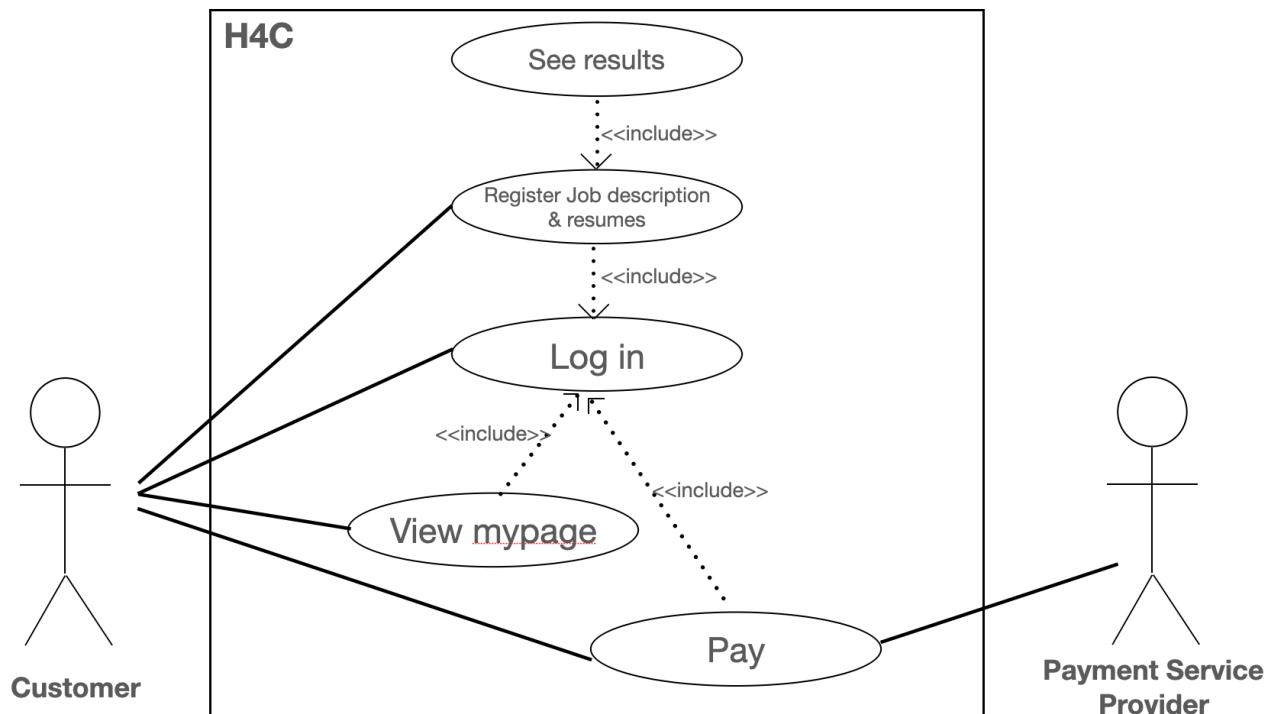
2-1. Product Perspective

Our program compares your company's job description with the resumes of applicants for this position, and then recommends applicants for the company. Through the self-developed nlp model, we analyze applicant's resume and company's job descriptions. Our services make HR processing easy, fast and efficient.

2-2. Overall Operation

When company registers job description and resumes, our program will analyze resumes with nlp model by categorizing keywords. Then, algorithm will match the keywords taken from resumes with job description and calculate match rate of each resumes. Finally program shows the result sorted by match rate.

2-3. Use case diagram



2-4. Assumptions and Dependencies

<p>Demographic Info</p> <table border="1"> <tbody> <tr> <td>Name <u>Yongseong Kim</u></td><td>Age <u>28</u></td></tr> <tr> <td>Location <u>San Fransico, California</u></td><td></td></tr> <tr> <td>Family Status <u>Single, Living with Friend</u></td><td></td></tr> <tr> <td>Major <u>Computer Science</u></td><td></td></tr> <tr> <td>Education level <u>Bachelor's degree</u></td><td></td></tr> <tr> <td>Income <u>\$93,000</u></td><td></td></tr> </tbody> </table>	Name <u>Yongseong Kim</u>	Age <u>28</u>	Location <u>San Fransico, California</u>		Family Status <u>Single, Living with Friend</u>		Major <u>Computer Science</u>		Education level <u>Bachelor's degree</u>		Income <u>\$93,000</u>		<p>Bio Kim lives in San Francisco and works as a software developer. He was born in Korea and immigrated to the United States. He enjoys playing basketball, skateboarding, and playing computer games. He shares his house with a friend. Kim usually makes time to hang out with his roommate. He is a big fan of Golden State Warriors.</p> <p>Pain points</p> <ul style="list-style-type: none"> - Trying to find an appropriate location for his new house since the current house is too small for him and his roommate. - He doesn't have enough money now, and save not much money, because he still has student loans left. - It becomes a burden to him to do his job and his own side project at the same time. So he recently decided to start a start-up and resign current company. 	<p>Gains/expectations from my product Reducing time to read and organize the all application forms and recommending the most suitable candidate.</p> <p>Factors influencing buying decisions</p> <ul style="list-style-type: none"> - Customers: How many other customers are using this program, and how they rate this program. - Partners: What reputable companies are already using this program. - Efficiency: if he can reduce time, he is willing to spend additional money. <p>Communication channels Channels <u>Instagram, Facebook</u></p> <p>Content types and formats <u>Instagram posts and videos</u></p> <p>Content topics <u>Daily life, playing sports</u></p>
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	<p>Bio</p> <p>Bruno studied computer science at UCLA and got a master's degree. He then joined Google's headquarters in Silicon Valley, where he is currently head of the artificial intelligence department. As a team leader, he is planning to take charge of a new AI project at the company and form a team. His team lacks machine learning technicians and is looking to hire them.</p>	<p>Gains/expectations from my product</p> <p>He can quickly filter out resumes that include the skills needed.</p>																														
<p>Demographic Info</p> <table> <tr> <td>Name</td><td>Age</td></tr> <tr> <td>Bruno</td><td>38</td></tr> <tr> <td>Location</td><td></td></tr> <tr> <td>San Francisco, California</td><td></td></tr> <tr> <td>Family Status</td><td></td></tr> <tr> <td>Married, 1 children</td><td></td></tr> <tr> <td>Major</td><td></td></tr> <tr> <td>Computer Science</td><td></td></tr> <tr> <td>Education level</td><td></td></tr> <tr> <td>Master's degree</td><td></td></tr> <tr> <td>Income</td><td></td></tr> <tr> <td>\$280,000</td><td></td></tr> </table>	Name	Age	Bruno	38	Location		San Francisco, California		Family Status		Married, 1 children		Major		Computer Science		Education level		Master's degree		Income		\$280,000		<p>Pain points</p> <ul style="list-style-type: none"> - There are too many applicants in the job posting. - The project needs to be carried out immediately, so he doesn't have enough time to train new employee, so he needs to recruit candidate who has the skills the team actually needs. However, too many skills are specified in the resume to determine if they have the necessary skills - Project needs to be started immediately so he has to hire quickly. 	<p>Factors influencing buying decisions</p> <ul style="list-style-type: none"> - Time efficiency: He has to make his team right away. This program will reduce time to hire a team leader. - Convenience: In addition to hiring, there are many things he should be concerned about. This program will provide him with convenient recruitment without pouring much effort. <p>Communication channels</p> <table> <tr> <td>Channels</td></tr> <tr> <td>Blog</td></tr> <tr> <td>Content types and formats</td></tr> <tr> <td>Blog posts</td></tr> <tr> <td>Content topics</td></tr> <tr> <td>Technical news and skills</td></tr> </table>	Channels	Blog	Content types and formats	Blog posts	Content topics	Technical news and skills
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	<p>Bio</p> <p>Sarah was born in Hong Kong and grew up there. She studied business administration and earned a master's degree. She then got a job as a human resource at a Microsoft company in Hong Kong and worked for 10 years. She is primarily responsible for personnel affairs. She lives in center of Hong Kong.</p>	<p>Gains/expectations from my product</p> <p>She can quickly and easily classify and evaluate resumes of requirements in each field.</p>																														
<p>Demographic Info</p> <table> <tr> <td>Name</td><td>Age</td></tr> <tr> <td>Sarah</td><td>36</td></tr> <tr> <td>Location</td><td></td></tr> <tr> <td>Hong kong</td><td></td></tr> <tr> <td>Family Status</td><td></td></tr> <tr> <td>Married, 2 children</td><td></td></tr> <tr> <td>Major</td><td></td></tr> <tr> <td>Business</td><td></td></tr> <tr> <td>Education level</td><td></td></tr> <tr> <td>Master's degree</td><td></td></tr> <tr> <td>Income</td><td></td></tr> <tr> <td>\$130,000</td><td></td></tr> </table>	Name	Age	Sarah	36	Location		Hong kong		Family Status		Married, 2 children		Major		Business		Education level		Master's degree		Income		\$130,000		<p>Pain points</p> <ul style="list-style-type: none"> - There are too many applicants in the job posting. - Since it is a regular recruitment by a large company, there are applicants in various fields, and it is difficult to classify the desired skills in each field. - A large number of resumes should be reviewed, classified and evaluated in a short period of time. 	<p>Factors influencing buying decisions</p> <ul style="list-style-type: none"> - Accuracy: Since she is not a computer science major, it can be difficult to accurately classify the skills required by various recruitments. This program will help her to do that. - Time efficiency: This will quickly sort the resumes so that it can reduce time by not sorting a lot of resumes by herself. <p>Communication channels</p> <table> <tr> <td>Channels</td></tr> <tr> <td>Instagram</td></tr> <tr> <td>Content types and formats</td></tr> <tr> <td>Posts</td></tr> <tr> <td>Content topics</td></tr> <tr> <td>Daily life</td></tr> </table>	Channels	Instagram	Content types and formats	Posts	Content topics	Daily life
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	<p>Bio</p> <p>David was born in Beijing. He got bachelor's degree of computer science from Beijing University and master's degree of AI from MIT. He worked at Airbnb AI team for 5 years. He has been working as CTO of start-up company since 3 years ago. He lives nearby company in Brooklyn. He spend his free time playing with her twin daughters.</p>	<p>Gains/expectations from my product</p> <p>Reduce time of reading resumes and pick applicants corresponding with the need of the company.</p>																														
<p>Demographic Info</p> <table> <tr> <td>Name</td><td>Age</td></tr> <tr> <td>David Wu</td><td>35</td></tr> <tr> <td>Location</td><td></td></tr> <tr> <td>Brooklyn, NewYork</td><td></td></tr> <tr> <td>Family Status</td><td></td></tr> <tr> <td>Married, 2 children</td><td></td></tr> <tr> <td>Major</td><td></td></tr> <tr> <td>Computer Science, AI</td><td></td></tr> <tr> <td>Education level</td><td></td></tr> <tr> <td>Master's degree</td><td></td></tr> <tr> <td>Income level</td><td></td></tr> <tr> <td>\$180,000</td><td></td></tr> </table>	Name	Age	David Wu	35	Location		Brooklyn, NewYork		Family Status		Married, 2 children		Major		Computer Science, AI		Education level		Master's degree		Income level		\$180,000		<p>Pain points</p> <ul style="list-style-type: none"> - Although there are not that much resumes, David have plenty of other works to do. So he doesn't have enough time to read every resume. - This company have lots of works to do, so seniors don't have sufficient time to teach new workers. So applicants should be prepared well. - Since, they are already full with other parts, they only need few AI developers. So, they are not willing to supply workers for other parts. 	<p>Factors influencing buying decisions</p> <ul style="list-style-type: none"> - Efficiency: They are having lack of time, so it's important to reduce their efforts and time to read resumes. - Accuracy: They have quite particular conditions in recruitment, so program must pick the resume that passes all the conditions correctly. <p>Communication channels</p> <table> <tr> <td>Channels</td></tr> <tr> <td>Facebook, WeChat</td></tr> <tr> <td>Content types and formats</td></tr> <tr> <td>News, Posts</td></tr> <tr> <td>Content topics</td></tr> <tr> <td>Tech news, Politics news</td></tr> </table>	Channels	Facebook, WeChat	Content types and formats	News, Posts	Content topics	Tech news, Politics news
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	<p>Bio</p> <p>Kid Susie always wanted to be a fashion designer. So, she went to fashion school and dual majored business. After graduate, she worked in fashion magazine company for 3 years. She never put down her life dream of own brand. So she went to MBA. Now she has been working on her own company for 2 years. Although she can't take much money, she loves her work.</p>	<p>Gains/expectations from my product Sorting the resumes and recommend the most suitable candidate they actually need.</p>																								
<p>Demographic Info</p> <table border="1"> <tr> <td>Name</td> <td>Age</td> </tr> <tr> <td>Susie Salmon</td> <td>31</td> </tr> <tr> <td>Location</td> <td></td> </tr> <tr> <td>Irvine, California</td> <td></td> </tr> <tr> <td>Family Status</td> <td></td> </tr> <tr> <td>Engaged</td> <td></td> </tr> <tr> <td>Major</td> <td></td> </tr> <tr> <td>Fashion Design, Business</td> <td></td> </tr> <tr> <td>Education level</td> <td></td> </tr> <tr> <td>Master's degree</td> <td></td> </tr> <tr> <td>Income level</td> <td></td> </tr> <tr> <td>\$20,000</td> <td></td> </tr> </table>	Name	Age	Susie Salmon	31	Location		Irvine, California		Family Status		Engaged		Major		Fashion Design, Business		Education level		Master's degree		Income level		\$20,000		<p>Pain points</p> <ul style="list-style-type: none"> - The company is not famous enough to be publicized. They don't receive many resumes. So actually, they have time to read every resumes by themselves. But there are no programmer in their company. (They just decided to recruit first web developer.) So, they need help in picking good resume. - Since the company is in junior level, they can't give high payment. This could make mismatch with high career applicant. 	<p>Factors influencing buying decisions</p> <ul style="list-style-type: none"> - Accuracy: Since, there's no programmer in their company, sorting accuracy is important to them. - Cost: The company is not making a lot of money. They are not able to purchase if it's too expensive. <p>Communication channels</p> <p>Channels</p> <p>Facebook, Instagram</p> <p>Content types and formats</p> <p>News, Posts</p> <p>Content topics</p> <p>Fashion news, Trend posts</p>
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2-5. Comparison of Other Services

JazzHR	Providing services suitable for small and medium-sized enterprises (SMEs).
Crelate	Easy to communicate, Powerful search function.
Hired	Recommend candidates through pre-screening based on experience and skills
Zoho Recruit	AI for recruiting, applicant tracing. Difference in view of top5 results.

3. Environment

3-1. Operating Environment

Our program doesn't matter what operating system you're using, and any web browser is fine. (I still recommend Chrome.)

3-2. Development Environment

Our website is developed using Wordpress. Server was maintained 24/7 by using Amazon EC2. We annotated dataset by using doccano, which is running based on docker. NLP model was developed in Google Colab using python.

3-3. Configuration Management

We used GitHub (<https://github.com/higher4comp/project>)

4. External Interface Requirements

4-1. Wire Frame

The wireframe illustrates the external interface requirements for the Higher4Comp website, divided into three main sections:

- 1) Landing Page:** The landing page features a navigation bar with links for "get started", "use guide", "pricing", "about us", and "community". A "Log in" button is located in the top right corner. Below the navigation, there is a section titled "HC is.." containing the text "Higher4comp is program for company looking for applicants." A prominent red "Get Started" button is centered below this. To the left, a section titled "For Who ?" states: "H4C is for employers having difficulty hiring candidates." To the right, a section titled "What H4C does" states: "H4C will sort the resume and recommend the best candidates based on your job description." Further down, a section titled "How it does" states: "It analyzes your job description and sort the resumes by AI natural language processing." Finally, a section titled "Why it is better than other competitors" states: "H4C uses _____.
A detailed footer at the bottom includes address information: "Reserve at South Coast, 3124 Main Street, Santa Ana, CA, 010-7239-2301 1344 - 8PM", and a list of names: JONG YOUN CHOI, BYEONG MOOK CHOI, YEON WOO KIM.
- 2) Log in:** This section shows a login form with fields for "id" and "password". Below the form are two links: "Forgot ID or password?" and "Don't have ID? Create yours now."
- 6) About Us:** This section features a navigation bar with links for "get started", "use guide", "pricing", "about us", and "community", along with a "Log in" button. The main content area is titled "About us" and contains three circular statistics: "97% Customer Satisfaction context", "50,000,000+ Resumes gone through context", and "3,000+ Partner Companies context". Below this, there is a section titled "Our Members" with three placeholder boxes. On the right side, a "History" section lists six items: "history here", "history here", "history here", "history here", "history here", and "history here".

3) Get Started_1

<<logo>> Higher4Comp

[get started](#) [use guide](#) [pricing](#) [about us](#) [community](#)

[Log out](#)

upload your job description here

upload your resumes here

[proceed](#)

Get Started-2

<<logo>> Higher4Comp

[get started](#) [use guide](#) [pricing](#) [about us](#) [community](#)

[Log out](#)

number of resumes you entered :

total cost :

[Credit card](#) [Account Transfer](#)

[proceed payment](#)

3) Get Started_3

<<logo>> Higher4Comp

[get started](#) [use guide](#) [pricing](#) [about us](#) [community](#)

[Log out](#)

Your Job Description

name	skills	keywords	match rate	link

[Load more](#)

4) Use Guide

<<logo>> Higher4Comp

[get started](#) [use guide](#) [pricing](#) [about us](#) [community](#)

[Log in](#)

1. prepare your job description and resumes in particular the format and enter them.

2. proceed payment of your order

3. check your result !

[FAQ](#)

5) Pricing

<<logo>> Higher4Comp

[get started](#) [use guide](#) [pricing](#) [about us](#) [community](#)

[Log in](#)

1month [Purchase](#)

3month [Purchase](#)

1year [Purchase](#)

8) Customer_repository

<<logo>> Higher4Comp

[get started](#) [use guide](#) [pricing](#) [about us](#) [community](#)

[Log out](#)

Your works

[Load More](#)

7) Community

<<logo>> Higher4Comp

[get started](#) [use guide](#) [pricing](#) [about us](#) [community](#)

[Log in](#)

New Posts

- posts here

Images

4-2. User Interface



What's HC?

Find applicants fits best to your criteria

Higher4comp is program for company looking for applicants.

For Whom?

Anyone concerned with recruitment

From small start-up to large major company, Any positions CEO, CTO, HR or else. Anyone concerned with efficient, convenient, accurate recruitment can get a help with h4c!



Review of customers

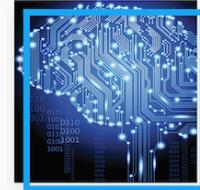
RYAN	JACKSON	SUSIE	SMITH
By using this program, you can significantly reduce the time to read resumes.	Accuracy is insanely high! Actually I didn't expect machines but this is really cool.	I strongly recommend this program to the recruitment team of the large company.	The cost is very cheap when you think of time reading all the resumes you received.

How does it work?

H4C is program to sort resumes by customer's criteria and gives recommendation from applicants.

With our NLP(Natural Language Processing) skill, we sort resumes by customer's job description automatically. So customer do not need to read every resume.

[USE GUIDE >>](#)



97%	50,000,000+	3,000+
CUSTOMER SATISFACTION	RESUMES GONE THROUGH	PARTNER COMPANIES
In a consumer satisfaction survey conducted over the past five years, we achieved 97 percent satisfaction.	There are more than 50,000,000 resumes that have gone through our service so far.	More than 3,000 companies have used our service.
Read more >	Read more >	Read more >

Join us! It will only take a minute

[GET STARTED TODAY](#)

Contact us!



WWW.FACEBOOK.COM/
HIGHER4COMP



@HIGHER4COMP



@HIGER4COMP

or help@hc.com

[SEE OUR YOUTUBE VIDEO](#)

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The About Us page features a dark background illustration of hands writing on a chalkboard with a lightbulb. The title "About Us" is at the top. Below it is a vertical sidebar with the text "Higher for company!" and a subtext about striving for a more convenient job market. It includes three statistics: Customer Satisfaction (97%), Resumes Gone Through (50,000,000+), and Partner Companies (3,000+).

CUSTOMER SATISFACTION
97%
In a consumer satisfaction survey conducted over the past five years, we achieved 97 percent satisfaction.
[Read more >](#)

RESUMES GONE THROUGH
50,000,000+
There are more than 50,000,000 resumes that have gone through our service so far.
[Read more >](#)

PARTNER COMPANIES
3,000+
More than 3,000 companies have used our service.

The Get Started page has a similar dark background illustration. The title "Get Started" is prominently displayed. It includes fields for "Upload your job description here" and "Upload your resumes here (.zip)". A "PROCEED" button is at the bottom.

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Our Team



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Eva Kook
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The Get Started page has a similar dark background illustration. The title "Get Started" is prominently displayed. It includes fields for "Number of resumes you entered :" and "Total cost :". Buttons for "CREDIT CARD" and "ACCOUNT TRANSFER" are available, along with a "PROCEED PAYMENT" button.

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The H4C story

From 2012 to now, H4C is constantly innovating.

2012) Service launched

2014) Achieved 1,000 resumes checked

2015) Introduced in TIMES as one of "10 Greatest Inventions of 21C"

2016) Achieved 5,000,000 resumes checked & 100 partner companies contracted

2018) Moved company to San Francisco & Expanded employees up to 5,000

2022) Achieved 50,000,000 resumes checked & 3,000 partner companies contracted



The Get Started page has a similar dark background illustration. The title "Get Started" is prominently displayed. It includes a field for "Your job description :" and a "Result" section with columns for Name, Skills, Keywords, and Match rate (%). A "VIEW RESUME" button is also present.

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1. Prepare your job description and resumes in a particular file format and enter them

Upload your job description here

Upload your resumes here (.zip)

PROCEED

2. Proceed payment of your order

Number of resumes you entered :

Total cost :

CREDIT CARD **ACCOUNT TRANSFER**

PROCEED PAYMENT

3. Check your result !

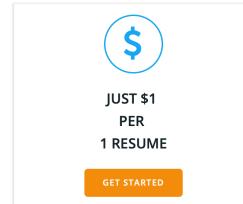
Your job description :

Result

Name	Skills	Keywords	Match rate (%)	View Results
LOAD MORE				View Results



Pricing Policy



- ✓ Just \$1 for 1 resume analysis
- ✓ Pay for resumes to analyze for one job description at one time
- ✓ We offer you a one-time free analysis experience of 50 resumes about one job description.

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FAQ

- FAQ) Can I get refund?
- FAQ) How can I start a new work?
- FAQ) How can I see last works?

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New Post

Notice) 22-2 Recruitment Inform...

Notice) Performance disclosure

3 important facts about web de...

How can I get to h4c office?

My first experience of python

Images



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