Individual Project Report

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| Your Name: | LI XINLIN |
| Certificate: | Intelligent software agents |

# Your personal contribution to this project.

After the discussion and brainstorming of our four together, we set the topic of this project. With the help of MVP course, it’s clear to us about how the project should be divided, including website development, RPA part, IPA part and chatbot part.

Since the IPA part is the most difficult and important part of our project, we worked together few days at the beginning of our project and designed the implement method together, include the method to extract key information from the resume and the job positions and the method to generate a personalized cover letter. At the same time, we also designed the database and the whole system architecture together.

Then we separate to work at different part, I am mainly responsible for the development of the RPA part, mainly includes the job position collection task and the job application task.

After all of us are almost finished, we work together again to do some integrate and test things until the whole process works well.

And at last, we are responsible for our own parts’ report writing and the remainder part report writing divided equally to everyone. Besides, I also responsible for making the video presentation.

# 2. What you have learnt from this project.

For this CA, I learned the basic idea of several fundamental techniques in the natural language processing. At the same time, I also have a deeper understand about the process automation, both the robotic process automation and the intelligent process automation, and I improved relevant skills about the process automation including natural language processing, TagUI, win32com and so on. The most important part I learned from this CA is that I get more familiar about the realistic utilization situation of the process automation, not just limited on books and courses.

# 3. How you can apply the knowledge and skills in other situations

Through this CA, I have accumulated relevant experience in process automation which is widely used in many working or living situations.

For me, I am really tired with dealing the tons of emails received everyday. Since those emails are mainly in five types, include job posting, news, school events, administrative emails and others. Now I’m quite familiar to let program manage the mailbox for me, I am actually planning to develop some tools to help me get rid of this trifles, maybe combining the machine learning to do the classification and the RPA to do the sort process. For others, there are too many situations can make a use of the process automation process to improve the efficiency, actually, there already have many application especially in the area of administrative works, I think the official automation applications are all based on this same idea. And I also think there still are many tedious process can be replace or improve by these process automation techniques, like fill forms things, the daily check-in events (many applications have these kind of activity with some bonus to improve customer retention rate).