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CSC498 Senior Seminar Final Report

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# Original Proposal

## See [Project Proposal](https://docs.google.com/document/u/0/d/1HpwcTF9cshCkFWtS8_3cfx-60k_VSrcdgX0yJx-dOO0/edit)

# Deviations from Original Proposal & Justification

1. Original Proposal: Jarvis is able to extract information from wikipedia for celebrities.

Justification: Jarvis is able to extract information from wikipedia for everything that is available on Wikipedia.

1. Original Proposal: Jarvis is able to open and start every application that is installed on the computer.

Justification: My plan was to have Jarvis search the whole computer for the applications. However, this process takes a long time to perform and is not efficient. So instead of having Jarvis search the whole computer, Jarvis will access the address book ( which is the config.py file ) and retrieve the location of the applications.

1. Original Proposal: Jarvis is able to get local weather status based on IP address and information from weather forecast websites.

Justification: Jarvis is able to get weather status not only in the local location but also every location around the world, using longitude and latitude instead of IP address.

1. Original Proposal: Jarvis is able to extract Sport’s results information from scorepro.com, by using sports.py library.

Justification: Because scorepro.com stopped letting developers access their database, this functionality could not be done. In case in the future, when developers are able to access the database again, I did not delete my code. I commented them out in order to use them later.

1. Original Proposal: Jarvis is compatible with Vietnamese.

Justification: I came across a lot of difficulties with this functionality. I expected it to be hard, although not that hard. So I was able to get Jarvis to talk in Vietnamese, by using the Windows 10’s built in Vietnamese language. However, I could not manage to find a way for Jarvis to recognize Vietnamese. I figured that the only way to get this to work is to train a Vietnamese recognition model. I failed at finding a dataset. In the end, I decided to stop doing this functionality for Jarvis.

# Reports

## See [User\_Manual](https://docs.google.com/document/u/0/d/1VVvjbBvx5xgoMY2ptobOK8RJkNlvAYngBypdZdDuzY8/edit)

# Project Code

Follow the Google Drive link below for the whole project zipped folder.

<https://drive.google.com/file/d/1kSIkOtVhV4rRE982x1sv-0uj1gi0jBBx/view?usp=sharing>

Download and extract the zip folder. Use Pycharm or any python IDE to open the project.

# Conclusion and Lessons Learned

I have never used a Python user interface tool prior to this project. So I learned how to implement Tkinter to make a python User Interface. I also learned how to search and use pre-built python libraries. My patient was really improved while I read the instructing documents for each library I found.

I have also improved a lot on my time management. I learned how to visualize steps I have to complete for various goals, then distribute my time, choose which to work on first, in order to accomplish them in a timely manner.

Usually when I have school projects, I am given instructions from the professors. For this project, I have to figure everything out, where to start, how to implement things, what libraries I should use, and many other things on my own. Thus, I developed independent coding skills. As I was doing the whole project by myself, I started to see how every program is created. It helped me become a lot more confident in my programming knowledge ever since.

In conclusion, this project is fundamental for my development as a student and as a programmer. It is undeniably useful and will definitely help me in my future path, as I am going into Artificial Intelligence. It asserts my passion for computer science and for AI, which will help me, along with many others, create a better world.

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