

Sophistication Value of the Project

Virus Removal System

The complexity of the python code written for this software was found to be:

NLOC	Avg NLOC	Avg CCN	Avg Token	Function Count	File Name
51	0.0	0.0	0.0	0	train.py
200	41.5	4.0	430.5	2	checkandanalyze.py
234	29.2	6.4	256.6	5	data.py
167	34.8	7.5	303.8	4	is_suspicious.py

We faced a few challenges while making the project a success:

1) Time management:

It was difficult to manage schedules with the project as we had many classes to attend in the whole week, classes would commence in the morning and would end by the evening 6 pm leaving us 4-5 hours in which we would have to manage assignments, presentations and our own personal studying along with the project and a lot of compromise was made towards making the project and managing time. Moreover when our exams approached we were unable to give our time towards the project as exams would become of a higher priority.

2) Team management:

We faced difficulties in managing team issues as a wide number of problems surfaced. Issues like, having the whole team to sit together and work was difficult and took time to call and coordinate with all. As a result of which, we've only had two meetings with the customer, though luckily those two meetings were fruitful enough for us to reach our desired level of work. It took time to build a workflow and inculcate the desired working output from the team. Moreover documents produced had some issues or errors which had to be corrected and therefore it decreased our level of output in a particular day. There were at times miscommunications and misunderstandings that took place which were to be solved and resume the work.

3) Coding Issues:

This project is developed in Python, and designed using Python Tkinter. These were both quite new to us, and we took quite a lot of time getting the hang of it and figuring out how things worked in both the language, and the Development Environment.

4) Technology issues:

Members weren't aware of various concepts that were used in the making of this software, such as scikit learn and the various Naive Bayes models on python; this added as a problem to pull us down. We needed to learn a few machine learning concepts. Some members learnt UI/UX designing to make the UI.

5) Research related: We needed to brainstorm about the project that we took upon us as it was a completely new idea for us and none of us had any prior working experience in any such project. We also took time to understand the documents uploaded by our professor as they had to be read and understood and a similar format document with respect to our project needed to be made which consumed a lot of time