2021 COMPUTER SCIENCE FINAL YEAR PROJECT COMPETITION

NAIVE BAYES ALGORITHM BASED E-MAIL SPAMMING FILTERING SYSTEM

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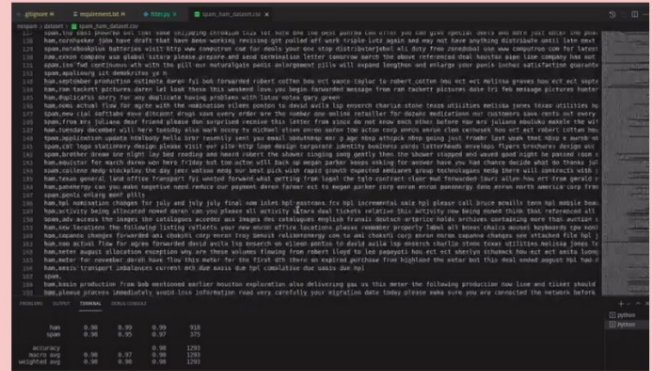Faculty of Computing & Informatics

ABSTRACT

E-mail spam, although not against the law of federation, this issue still annoying every user and clogging up the space of their mailbox. With the inspiration of previous happen spam issue in Universiti Malaysia Sabah official account and increasingly spam issue causing nuisance toward e-mail users, in this final year project, author will be looking for developing a spam filtering system software that will scan and filter out spam message that might be sent from any other users with checking the keyword that record toward the system. According to the research found, there are various spam filtering technologies such as Content Based Filters, Bayesian Based Filters, Whitelist or Blacklist Filters, and Community Filters. Certain problems found by the author on the common spamming content such as phishing scam content, irrelevant or fake advertising content and harassment content. The objective of this project is designing a spam filtering system using content-based Bayesian technique to remove spam messages to junk folders. This project's final product is target toward users frequently using e-mail and the module containing login/logout authentication, home page and advanced filter setting. Author conducted an Agile method toward this project in order to accomplish the project. A final product is predicted to release among week 13 or 14 of Semester 1 2021/2022.

PROBLEM STATEMENTS

A spam filtering system is important in nowadays especially in this pandemic season the online working and studying became somehow necessity for everyone and emailing the important message became one of the least ways to transmit to their working partner, student, teacher and so on for the idea, working plan etc. A secure email account is one of the most valuable parts of running a successful business. This is also considered a component of university development to improve the official mailbox environment from latest version. Also, besides from official mailbox spam, user can also solve their private mailbox if the permission accessed. The problem should be identified by author to be solved with the system.
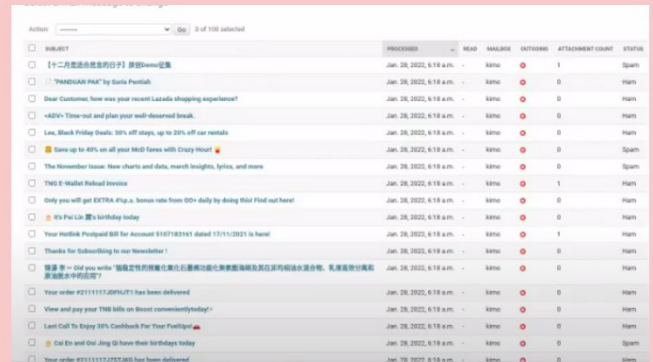
OBJECTIVES

- To design a web-based system for users which can allow them to clear spam email.
- To develop an e-mail spam filtering system using content-based Bayesian technique.
- To test the performance of prototype related to proposed project through configuring the final prototype.

METHODOLOGY

IMPLEMENTATION

CONCLUSION

- This project used Naive Bayes algorithm to create a sorting system on users e-mails.
- The project is still under a progressing for a full functioning prototype though the core objective had been done separately.