



Checking Web Accessibility in Hong Kong

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Introduction

Web Accessibility refers to the practice of making websites accessible to people of all abilities and disabilities so as to achieve social inclusion. The Web Accessibility Initiative (WAI) has put effort to improve the web accessibility for people with disabilities and provides a set of guidelines named Web Content Accessibility Guidelines (WCAG) to advise how web developers can make their sites more accessible to disabled people. The Hong Kong government has started Web Accessibility Campaign, which aims to promote the advantages of having web accessibility in websites and raises the concern for web designers in Hong Kong.

Objective

Our project is to implement the WCAG to scan websites in an automatic way and collect data from each scan to generate graphical statistic. We aim to develop an integrated checking system, which helps to promote web accessibility in reflecting how accessible a webpage is.

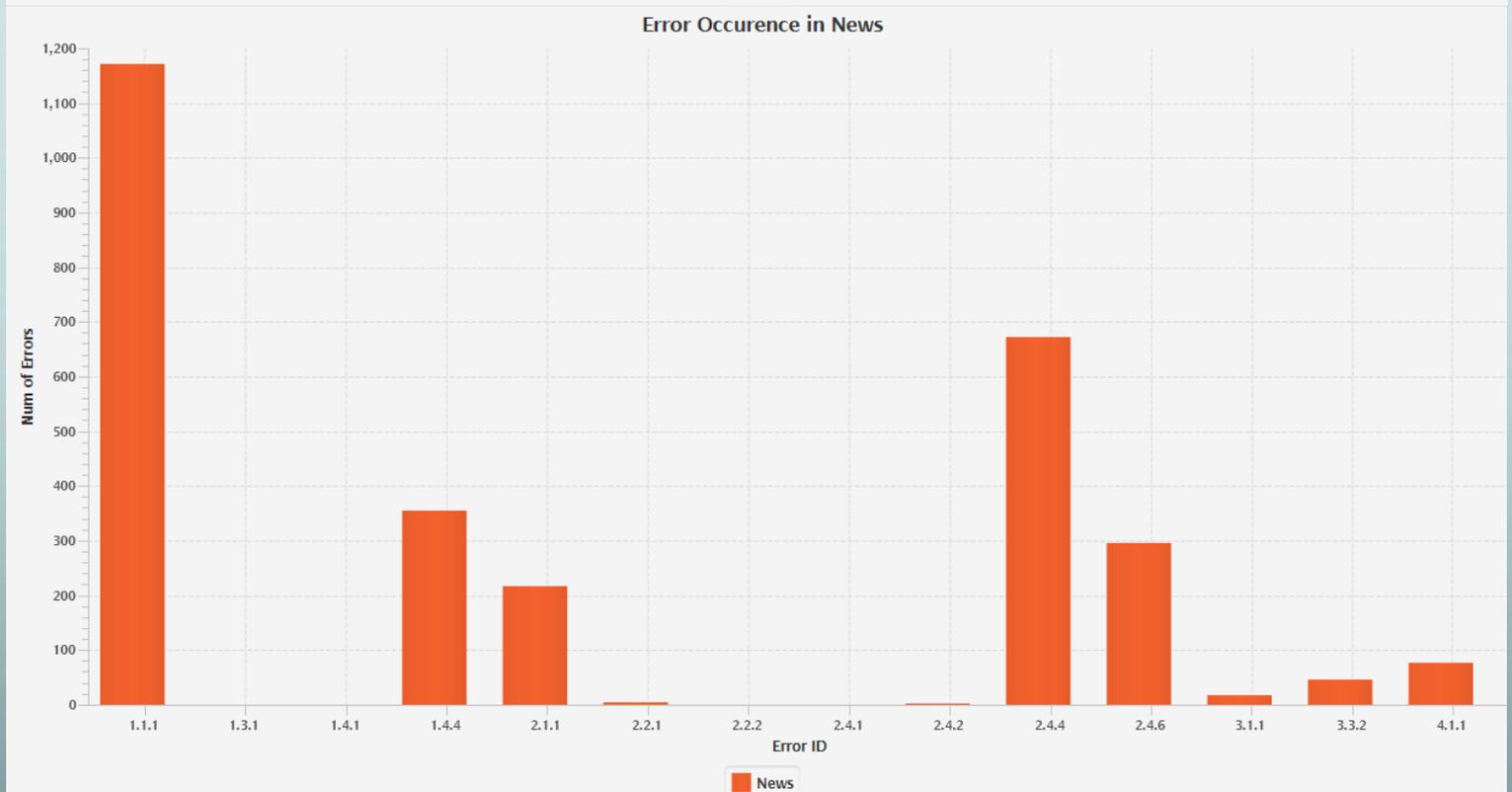
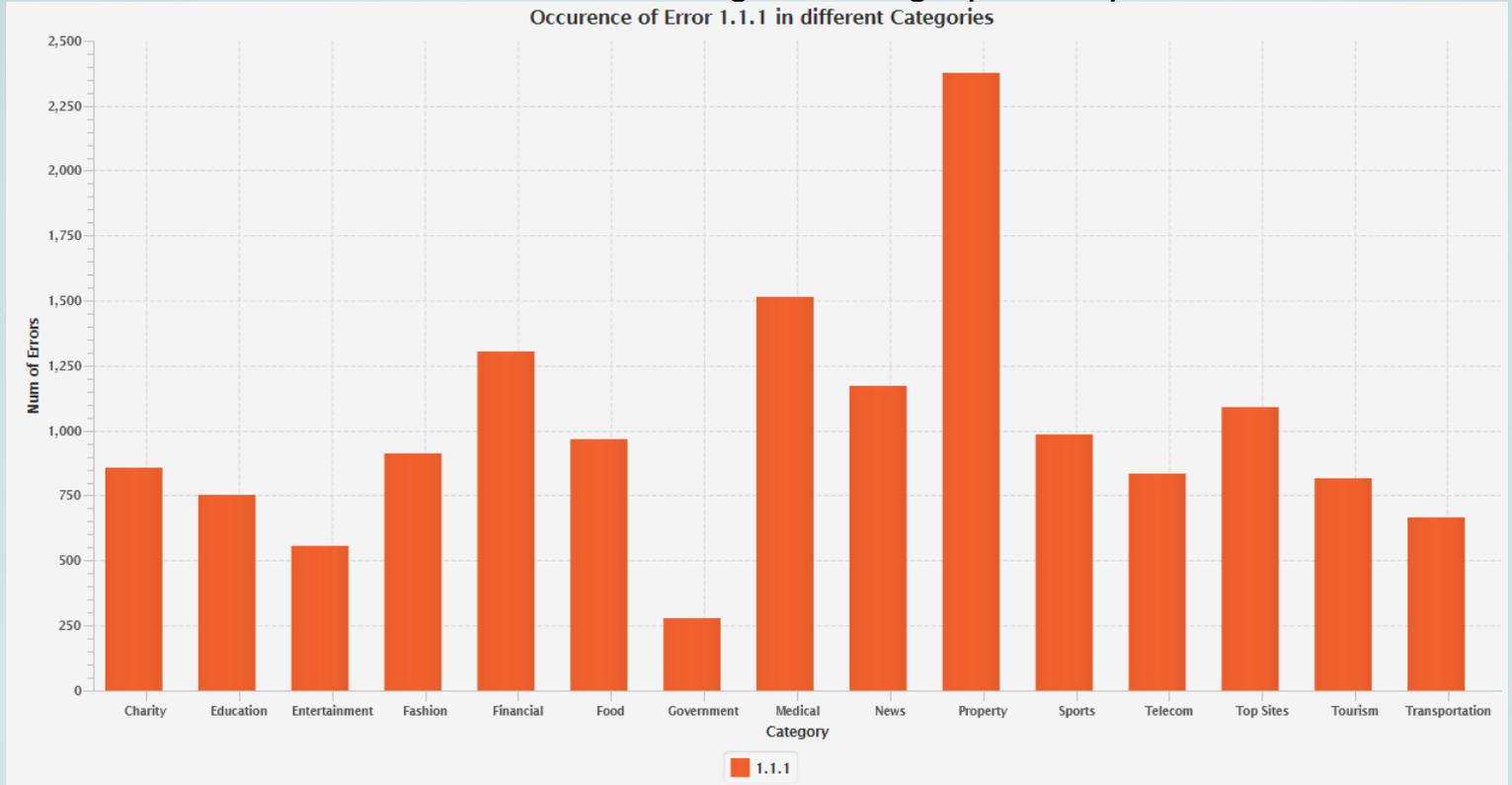


Methodology

The program is designed in Java, which designed with several algorithms based on WCAG 2.0 and connects to a database for result storage.

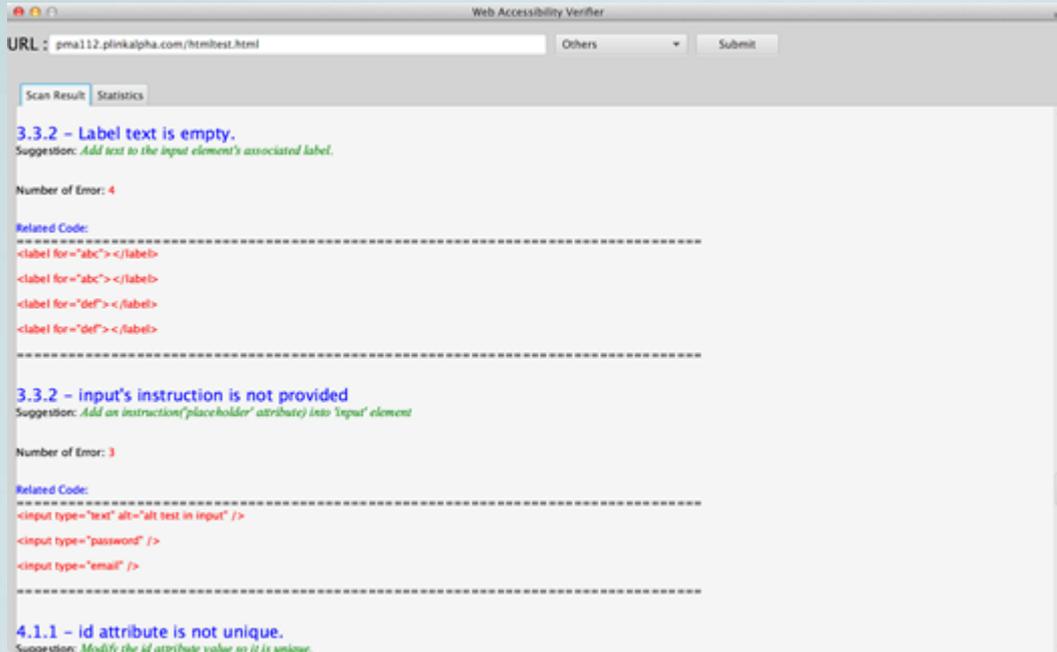
With an input of a URL, the program extracts the specific website's html file and checks its accessibility. The result is stored to a dedicated database.

Data is retrieved from the database to generate graphs for presentation.



Conclusion

We successfully implemented both checking part and statistic part of the program.



The program user interface can give the result of the checking. The results can successfully send to the database.

The program can also retrieve data from the database to generate statistic graph.

