ABSTRACT

Data crawling is an engine that allows someone to retrieve and collect data from various desired sources on a particular website page, one of which is information on book sales in online bookstores, such as prices and so on. The problem that occurs is that the stock availability at each online bookstore varies and requires extra effort to search one by one for the online bookstores available on the internet. The aim of this research is to create a website that can search for online book sales with the availability of accurate book information and complete data and without any additional costs charged to the seller. The data collection method was carried out using data crawling techniques because we did not have access to every online bookstore database that was the target of crawling. The system development method used is Rapid Application Development (RAD). This design uses the Unified Modeling Language (UML) modeling language and Python, HTML and PHP programming languages, and the database used is MySQL. The result of this research is a data crawling engine that can collect data from every book in bookstores at Grobmart and Deepublishstore, as well as a search engine application to search for the cheapest book prices and book availability from the data sources that have been collected. In this way, the application created can make it easier for people to search for books, expand the market for sellers, and increase transactions on the Grobmart and Deepublishstore websites.

Keywords : *data crawling, search engine, web crawling, rapid application development* (RAD)*, unified modelling language* (UML)