Universiti Teknologi MARA

Development of Web Based Learning Content of Animation Algorithm on Searching and Sorting Techniques

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Abstract

Web based learning environment has been widely developed and adopted. Many of us use the internet or the "web" (World Wide Web) as a source of information. It is not easy to study searching and sorting algorithm with only refers to the text algorithm like in text books. This project is to develop a web based on searching and sorting techniques to improve the quality of study among the student in FTMSK UiTM. In sorting algorithm, we focused on quick sort, heap sort, merge sort, bubble sort, insertion sort and selection sort while in searching algorithm we focused on binary search and sequential search. The objectives of this project is to develop self-learning environment in learning searching and sorting algorithm, enhance understanding of student in learning searching and sorting technique and to apply web-based learning in computer science subject, which focus on courses that use searching and sorting algorithm.. Although there are many websites that teach searching and sorting algorithm by using animation but no websites can cover the UiTM syllabus. The deliverables of this project is web based learning for searching and sorting algorithm that covers the UiTM syllabus. So by developing this web based learning, we hope UiTM student especially, can get benefit from it.

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