PROJECT REPORT

Shell and Exchange Sort Visualization using HTML 5

Niko Adetya Putra
13.02.0078

Faculty of Computer Science
Soegijapranata Catholic University
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APPROVAL AND RATIFICATION PAGE

SHELL AND EXCHANGE SORT VISUALIZATION USING HTML5

by

NIKO ADETYA PUTRA – 13.02.0078

This project report has been approved and ratified by the Faculty of Computer Science on July, 12, 2017

With approval,

Examiners,

1.) Rosita Herawati, ST., MIT
NPP : 058.1.2004.263

2.) Shinta Fitri Wahyuningrum, S.Si., M.Cs
NPP : 058.1.2007.272

3.) Hironimis Leong, S.Kom., M.Kom
NPP : 058.1.2007.273

Supervisor,

Widyawati Nugroho, ST., MT
NPP : 058.1.2002.254

ii
STATEMENT OF ORIGINALITY

I, the undersigned:

Name : NIKO ADETYA PUTRA
ID : 13.02.0078

Certify that this project was made by myself and not copy or plagiarize from other people, except that in writing expressed to the other article. If it is proven that this project was plagiarizes or copy the other, I am ready to accept a sanction.

Semarang, July, 12, 2017

NIKO ADETYA PUTRA
13.02.0078
ABSTRACT

In computer science, sorting algorithm is the one of the material that learn how to sort data by using the computer program. Many students only understand about basic understanding of the algorithm sorting without knowing how it works. The purpose of visualization about how to sort algorithm works and the result is for assisting students in studying the sorting algorithm. This visualization of sorting aims to learn shell and exchange sort easily.

This program shows the working of shell and exchange sort. This sorting visualization program displays results of each step from sorting progress. The visualization sorting works with the random data. Then it sorts the data while each results of the sorting loop will appear on the screen. In the last Looping will appear the result of the sorting results. Inside this visualization program use various buttons there are input, random, and sort.

The sorting visualization is created with HTML canvas and javascript. Where HTML canvas displays the number in boxes and javascript will moves the animated boxes.

Keywords: visualization, shell sort, exchange sort, HTML, javascript
PREFACE

This project contains about the process of visualization sorting by using HTML5. The sorting method used for this visualization is shell and exchange sort. Not only using HTML5 alone, this visualization is also supported by using javascript. In chapter one this project contains problem solving and also discusses the purpose of this project.

Chapter two discusses literature study. The literature study contains the research and the methods used to complete the paper.

Chapter three contains steps to complete the project which includes literature studies, analysis, as well as implementation and testing. In the fourth chapter discusses the breakdown of analysis of this project and in the form of a flowchart.

Chapter five is about implementing the data structures in the project as well as program testing, data inputted and displayed projects. And the last is chapter six that discusses the final conclusions of this project and suggestions for further projects.
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