# DESIGNING A DESKTOP-BASED INFORMATION SYSTEM FOR CHANGE OVER TIME REPORTING USING THE SDLC METHOD

## UNDERGRADUATE FINAL PROJECT

**Submitted as one of the requirements to obtain Sarjana Teknik (S.T.)**


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**CIKARANG**


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**SIMILARITY CHECKING RESULT**

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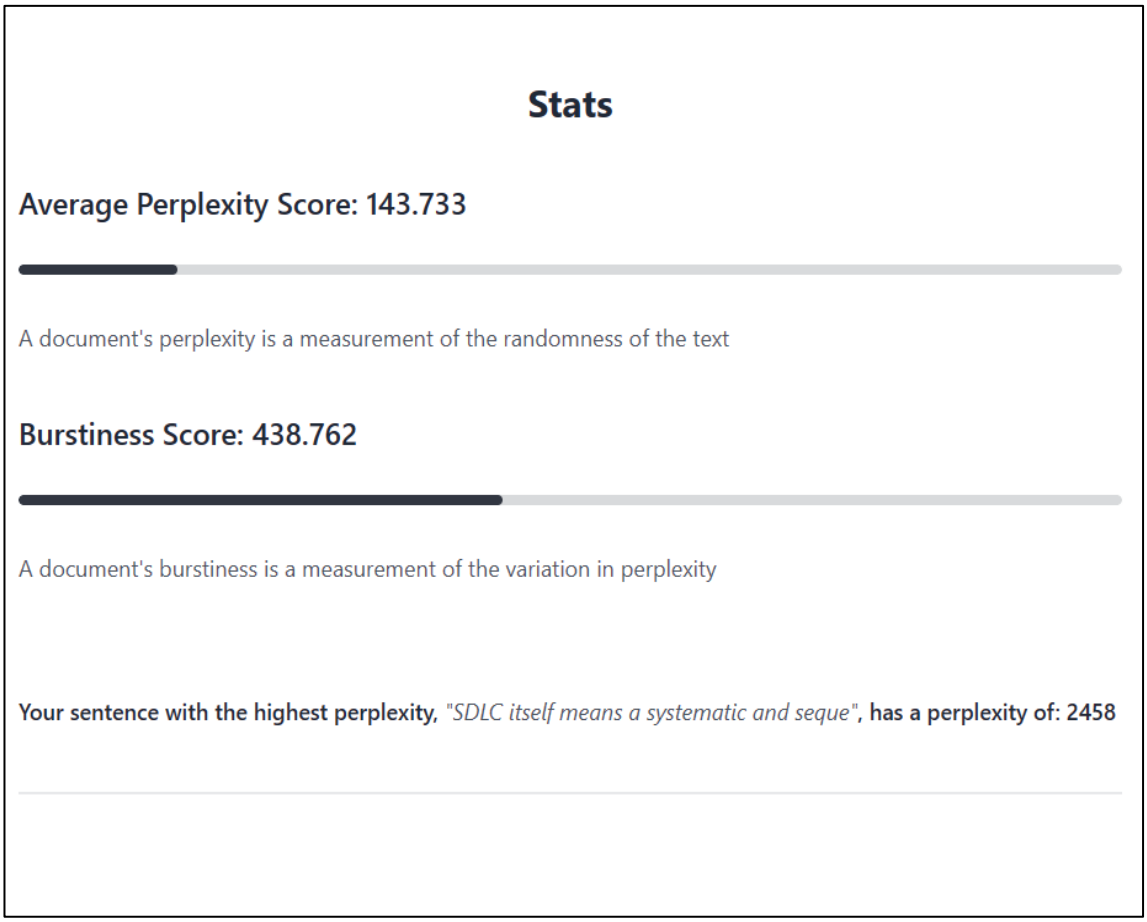
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# AI BASED PLAGIARISM CHECKING RESULT



# ABSTRACT

PT. XYZ is an industrial company specializing in high quality packaging. The implementation of the input process and data management in monitoring of Change Over (CO) time reports is still constrained and manual. The problem arose after analysis and observations during May-September 2022. Based on the results of analysis and observations on the process of reporting time change over opened up a number of problems i.e. there is repeated work done by the Group Leader (GL) also done by administrator on the input process and indicated the management of data on the old system is still manual so resulting in the time required for input process to be long. Total time based on observation results on the GL input process for 13 minutes and 35 seconds while for administrator until 40 minutes more 5 seconds. Business process improvement is applied by proposing a new flowchart process, including developing a new system design using the System Development Life Cycle (SDLC) method. The proposed improvement is in the form of redesigning the flowchart process and implementing a new system to make CO time reporting more effective and efficient. Based on final results and observations of improvement, the total average time consumed for group leader input is 7 minutes and 20 seconds, with a reduction percentage of 46%, and for administrator input, it is 2 minutes and 45 seconds, with a reduction percentage of 94%.

*Keywords: Change Over Report, Process Input, Time Consumption, Flowchart Process, System Development Life Cycle, Desktop Apps (MS Access)*

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# LIST OF TERMINOLOGIES

| | | |
|---|---|---|
| Preparation Department | : | One of Department at PT Supernova Flexible Packaging who preparing the cylinder, equipment, and ink before process in printing machine |
| Cerutti | : | Name of printing machine. |
| Cylinder | : | Cylinder is an ink print area on plastic or also called prints on ink that sticks. |
| Article | : | Name of Customer Product Order. |
| Manufacturing Lots (ML) | : | A code indicated to know the number of orders per each customer. |
| JI Code | : | Job Instruction (JI) code to find out the name and identity of the customer's product order. |
| Change Over(CO) | : | Change Over is an activity in the production process that occurs in the printing machine in the form of changing the equipment tub and material needed to prepare for the next printing process (replaced from product A to Product B). |
| CO Time Report | : | An activity in reporting the entire total CO process time on each printing machine |
| ERD | : | Graph showing how evidence moves between different entities. |
| CO Time Report System | : | An application to facilitate the process of reporting CO time stored in a neatly arranged database. |