

## ABSTRACT

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*DIA Optics is a trading company engaged in the field of optics. Where, DIA Optik presents glasses from a wide selection of brands, lenses, and frames. In running its business, DIA Optik still keeps financial records and transactions such as purchases and sales manually using Microsoft Excel. The purpose of making this application is to provide convenience for DIA Optik in recording transactions that occur so as to be able to produce a financial report. This application is able to record sales transactions (cash or credit), purchases (cash or credit) and is able to display general journals, ledgers, income statements and sales and purchase reports. This application uses the waterfall method. Where, this application is built using the PHP programming language with the CodeIgniter framework and MySQL for database storage. Testing this application using the Black Box Testing method, so that the application that has been made can run as expected.*

*Keywords: Sales, Purchase, Web-based applications, CodeIgniter Framework, Black Box testing.*