Abstract

Currently, in PT. MULTI KENCANA NIAGATAMA the Production Planning and Inventory Control operations are still conducted manually. Our thesis will develop a system that automates the Production Planning and Inventory Control operations. Consequently, the system will reduce unnecessary human error and in the other hand, increase work performance and productivity. Besides that, the system will also be the document data archives for further use. So in the end, the system will save company’s cost and time.

The system design is based on the current system. So basically we transform the current system into an automated computer based system that able to manage and archive PDF documents for further use. The method we used in building the system is data and process modeling.

Methodology that is used in developing the system application is rapid application development, which covers phased development life cycle. Moreover, we will develop this thesis using open source system: PHP as the programming language and MYSQL as the database. We also used external library for PDF in PHP, which called FPDF.

The system that we built will increase the effectiveness and efficiency of production planning and inventory control system in PT. MULTI KENCANA NIAGATAMA and reduce any human errors in previous system. To summarize, we hope what we intend to do in this thesis can help PT. MULTI KENCANA NIAGATAMA in managing the inventory control and production process.

Key words
Production, Planning, Inventory, PPIC, PHP, MYSQL
PREFACE

At first, we would like to thank our God for His blessings and guidance so that we can finish this thesis on time with result that meet user’s needs. This thesis that covers designing a Production Planning and Inventory Control system for PT. MULTI KENCANA NIAGATAMA and documenting the whole process is a mandatory to graduate and obtain Sarjana Komputer degree majoring in Computer Science.
The objective of this thesis is to implement what we had learnt in Bina Nusantara International Undergraduate Program for about 4 years in Real Time Application that used to help user achieve its goals.

We would like to express our gratitude to all the people who directly or indirectly help us to prepare this thesis:
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2. Mr. Firdaus Alamsyah Ph.D as the former Program Director of International Undergraduate Program of Bina Nusantara and current Executive Director of Joseph Wibowo Center.
3. Mr. Richard Kumaradjaja Ph.D, as our supervisor, who has guide us and support us until the final of this thesis.
5. Parents and whole family members of the writers, who gave endless support.

As a summary, we are hoping that this thesis could be useful for the readers and we are very welcome to any comments and critics to improve this thesis further.

Jakarta, 29 June 2005

Writers

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