

ABSTRACT

PT. XYZ is a manufacturing company engaged in the dairy industry that produces various types of milk such as ready-to-drink liquid milk and sweetened condensed milk with various variants. PT. XYZ has two factories, both located in East Jakarta, each producing different variants. Each factory produces different milk variants such as ready-to-drink liquid milk and sweetened condensed milk, while the other factory produces powdered milk and sweetened tofu milk in sachet packaging. High milk production causes an increase in material in the supply chain at PT.XYZ. As a company with a high level of demand, PT. XYZ has a long supply chain such as the process of receiving milk from suppliers, production, packaging, shipping, and customer service. The supply chain process must run well so that it can satisfy customers. This study aims to reduce the error rate in receiving materials from the material warehouse to the production warehouse and to design a material data inspection system using the waterfall method and using the Django framework as a basis for building a material data inspection website in order to reduce the rate of operator error when checking material data. The website for material data verification is designed to facilitate operators in performing material data checks. This website is intended to provide PT.XYZ with a tool for conducting material data inspections, allowing for direct integration with data request functionalities and aiming to reduce *GAP* to 0.31% during material data verification.

Keywords: Supply Chain, *Framework*, Django, *Waterfall*, Material