

PAPER PROJECT

PEMODELAN BERORIENTASI OBJEK

Kode Kelas
INF 10253

Semester, Hari & Jam Kuliah
Semester 5
Senin , Jam 9:05AM - 11:45AM

Nama dan Nim Anggota
Rickhen Hermawan - 00000012311
Sudono Tanjung - 00000012273
Sharon Setiawan - 00000012666
Bryan Yehezkiel - 00000016528
Marcel Praselia - 00000019043
Leonardo Jivalino - 00000015443
Yoel Candra - 00000014204



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Teknik Informatika

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Problem Statement

In a world where technology advancement, we can't deny every aspect must be associated to it. Supermarket has a long history as a place where customer do transaction for an exchange between cash and item. Supermarket this day that has a long history also get in touch by technology advancement that happen recently. Customer often get bored with the traditional way of doing transaction and demand for a newer and much more innovative way to do transaction. The demand get larger with the market trend of IoT that provide the "One-Click" solution of all thing that make thing more faster, efficiently, and low cost. This is the reason that make the high demand for combination of supermarket and technology go together. That is why we need to meet this demand by creating the software that is required to meet it. Giant tech company like Google, Microsoft, and Apple for instance has already making move. Google is currently working to improve Android Pay to take domination in One Click Shopping market. Microsoft also launched Microsoft Wallet to meet this high demand of innovation. Also Apple with the Apple Pay that revolutionized the way we do transaction by deeply integrating Apple Pay with their smartphone product iPhone. This already been implemented in Japan where every shopping will be just a single tap and go.

Another solution also offer by another company such as Amazon and Softbank. Amazon offer another innovative way rather than just virtual wallet with one click solution, They provide a assistant service where you just need to say what you want to buy and they will delivered the product in the next day with Amazon Alexa that has a tube kind machine standing waiting for voice input. Similarly, Softbank has almost identical solution but instead of a tube kind machine, they provide robot named Pepper (ペッパー) that use AI to serve customer fast and efficiently in Japan. This store that used the robot doesn't need to be closed or in another way it can open 24 hours because the robot doesn't need to rest like human clerk. The robot can also give recommendation based on how the customer behave or how the facial expression at that time with the robot AI.

This innovation that happened in the world is used to lower cost and give better performance but it doesn't mean that it doesn't come with problem. It also has problem such as the first time cost to start the project that doesn't cheap but with much idea that happen around the world and more greater fund support to innovate, We can and will overcome that problem in no time because economy will stop circulating when there is no innovation happening around