UTM

UNIVERSITI TEKNOLOGI MALAYSIA

SESSION 2018/2019 SEMESTER 1

PROJECT

NAME:

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SUBJECT NAME: DATABASE

SUBJECT CODE: SCSD2523

SECTION: 07

PROJECT TITLE

Database Planning and System for Kolej Tun Dr Ismail (KTDI) Photostat Shop.

INTRODUCTION

The system that we choose to investigate is the system of the KTDI photostat shop. The reason that we pick this shop is because that their system are not fully digitalized. Besides, KTDI photostat shop is also very convenient and near for us to investigate because we are also living in KTDI. KTDI photostat shop has provided a lot of service, for example, photostating, printing , laminate, binding, taping, scanning and etc. The system that we choose to investigate are the printing services. The current system of printing service in KTDI photostat shop is customer manually using the computer provided by the owner. Customer need to use their own pen-drive and print out manually. We had interview with the shop owner to discuss about their system. After discussing with the owner, it is found that there are some problem on their system. Beside that, the owner had also gave us some idea on how to improve their system in order to achieve a better business.

PROBLEM STATEMENT

We had interview the shop owner regarding the problem of their current system.

- Weather problem inconvenience for customer to reach
- Time wasting for customer to queue up
- Customer unfamiliar with the PC provided, for example this may cause customer to print out wrongly
- Owner PC may have high risk of getting virus

MISSION STATEMENT

- To create a new system for the printing service of the KTDI photostat shop.

MISSION OBJECTIVE

- To reduce the risk of owner PC from getting virus.
- To prevent loss of customer due to bad weather and long queue.
- To extend the source of customer
- To provide delivery service for customer.
- To allow customer to have cashless payment by paying digitally.

SYSTEM BOUNDARY

Customer

Customer ID	***Name***	***Password***	***Contact number***	***Address***	***Email Address***	***Wallet ID***	***Order ID***

PrintPay

Wallet ID	***Top-Up ID***	***Payment ID***	***Balance***

Top-Up

Top-Up ID	***Top-Up Date***	***Amount***

Payment

Payment ID	Payment Date	Amount

Order

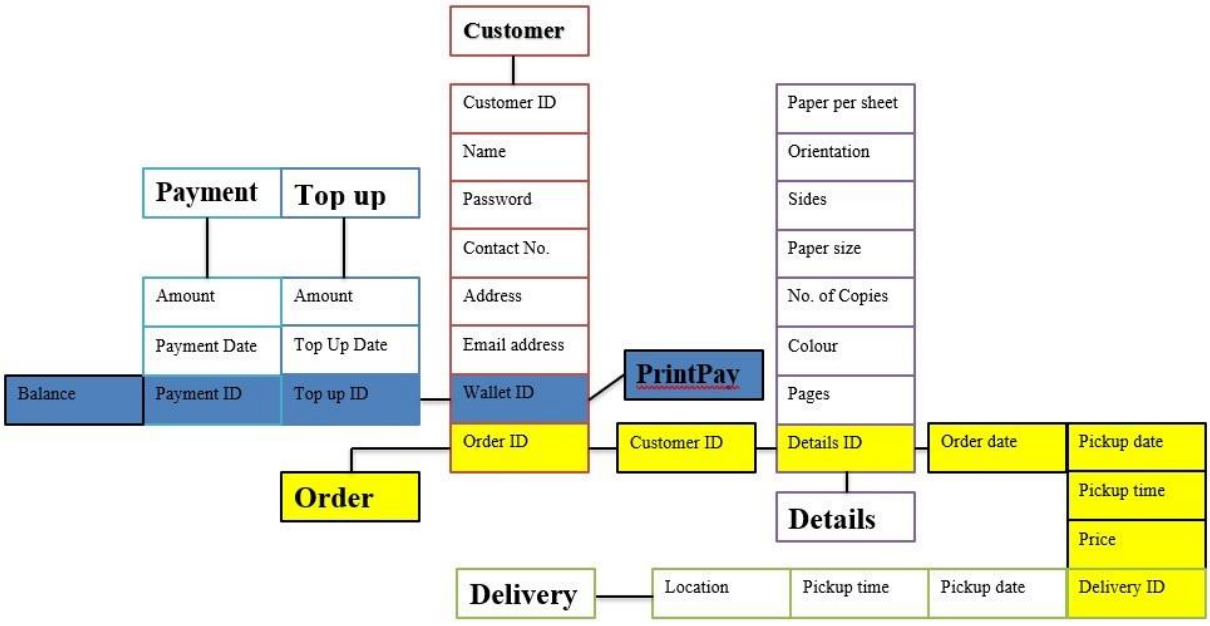
Order ID	Customer ID	Details ID	Order Date	Pickup Date	Pickup Time	Price	Delivery ID

Details

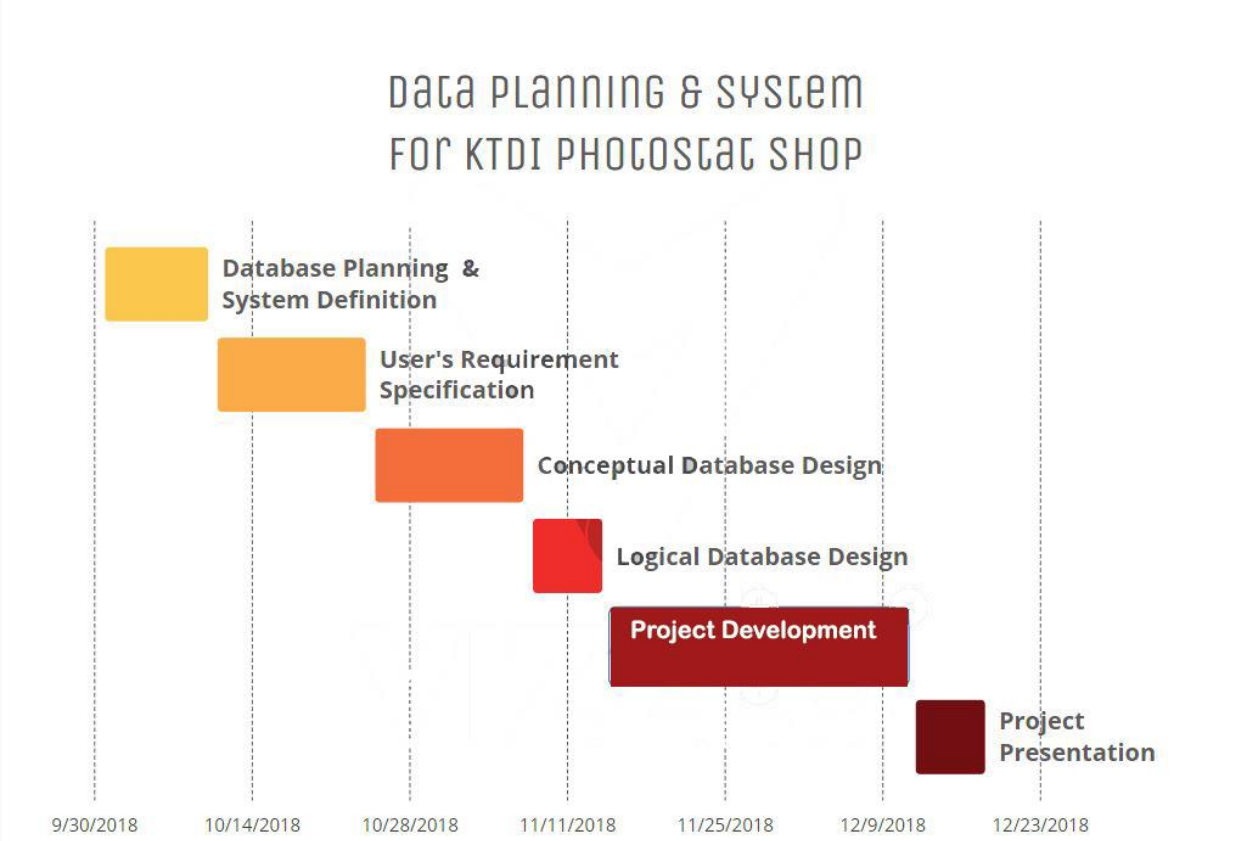
Details ID	Pages	Color	Number of Copies	Paper Size	Sides	Orientation	Page per Sheet

Delivery

Delivery ID	Pickup Date	Pickup Time	Location



GANTT CHART



Description	End Date	Start Day	Duration (Days)
P1	1/10/18	10/10/18	10
P2	11/10/18	24/10/18	14
P3	25/10/18	7/11/18	14
P4	8/11/18	14/11/18	7
P5	15/11/18	11/12/18	28
P6	12/12/18	18/12/18	7

P1 – Database Planning & System Definition

- ✓ **Create the mission statement, mission objectives for the database system.**
- ✓ **Define the system boundary and major views for the database system.**

P2 – User's Requirement Specification

- ✓ **Gather more details on the user views and any general requirements for the database system**
- ✓ **Decide on how to manage the user views of the new database system**

P3 - Conceptual Database Design

- ✓ **Based on requirements identified from P2, identify entities and attributes for each entity.**
- ✓ **Determine all possible relationships between entities and the multiplicities for each relationship.**
- ✓ **Represent the above in ERD and Include enhance ERD features wherever possible.**

P4 - Logical Database Design

- ✓ **Transform the conceptual ERD produced in P3 into a logical ERD and derive relations schema from the logical ERD.**
- ✓ **Perform normalization up till BCNF to these relations.**
- ✓ **Draw the final logical ERD to represent the BCNF relations schema produced and Validate logical ERD with the system's transaction requirements**
- ✓ **Update the data dictionary based on the normalized relations produced from above**

P5 – Project Implementation

- ✓ **Developed the project by building a simple application.**

P6- Project Demo

- ✓ **Presenting and demo the project.**